



A summary list of fossil spiders and their relatives

compiled by

**Jason A. Dunlop (Berlin), David Penney (Manchester)
& Denise Jekel (Berlin)**

with additional contributions from Lyall I. Anderson, Simon J. Braddy,
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INTRODUCTION

Fossil spiders have not been fully cataloged since Bonnet's *Bibliographia Araneorum* and are not included in the current *World Spider Catalog*. Since Bonnet's time there has been considerable progress in our understanding of the fossil record of spiders – and other arachnids – and numerous new taxa have been described. For an overview see Dunlop & Penney (2012). Spiders remain the single largest fossil group, but our aim here is to offer a summary list of all fossil Chelicerata in their current systematic position; as a first step towards the eventual goal of combining fossil and Recent data within a single arachnological resource.

To integrate our data as smoothly as possible with standards used for living spiders, our list for Araneae follows the names and sequence of families adopted in the previous Platnick Catalog. For this reason some of the family groups proposed in Wunderlich's (2004, 2008, 2012) monographs of amber and copal spiders are not reflected here, and we encourage the reader to consult these studies for details and alternative opinions. Extinct families have been inserted in the position which we hope best reflects their probable affinities. For other arachnid groups we have largely followed the nomenclature and family sequences adopted in other online or printed summaries; for example Victor Fet *et al.*'s work on scorpions, Mark Harvey's catalogues of pseudoscorpions and the 'minor' orders – all of which also list the fossils – Adriano Kury's harvestman overviews and the third edition of the Manual of Acarology for mites. For all groups, genus and species names were compiled from established lists and cross-referenced against the primary literature.

We aim to reflect the latest published opinions on the taxonomy of fossil species. A caveat here is that some synonymies and transfers proposed in the literature were only provisional or tentative in nature. At times we were forced to interpret whether a formal nomenclatural change had actually been made, and we have tried to accommodate these difficulties as best as possible. We should also stress that many historical fossil types require revision. Older species names assigned to common, modern genera such as *Araneus*, *Clubiona* or *Linyphia* among the spiders, should be treated with caution. The list has been extended to include Recent species – particularly some spiders and numerous oribatid mites – found as (sub)fossils. These are generally specimens of Quaternary age found in copal, or recovered from peats or archeological sites.

We have provided references for the first descriptions of all the fossil species, and where possible we have added the relevant taxonomic literature for all the taxon names which we mention here. We should, however, note that for some groups (especially mites) recovering the correct author and date for higher taxa proved challenging, and we hope in future releases to be able to clarify these names and augment the reference list accordingly. Formal synonymy lists for the fossil species are being compiled and that which we have for individual taxa can be made available upon request upon a 'fair use' basis. As with any project of this size, we cannot guarantee the accuracy of all these entries and we encourage readers to forward omissions or corrections to jason.dunlop@mfn-berlin.de or David.Penney@manchester.ac.uk.

PRINCIPAL CHANGES SINCE THE LAST UPDATE

The principal additions in this version include the remarkable discovery of a 'tailed spider' from Cretaceous Burmese amber. Also new is the oldest chthoniid pseudoscorpion from Burmese amber and several new mites from Cretaceous and Baltic amber including the oldest record of the family Pterygosomatidae. The systematics of the Coal Measures whip spiders have been revised including a new family and genus. Also added was an overlooked horseshoe crab from the Triassic of Tunisia, some overlooked mites (caeculids, tuckerellids) and jumping spider from Mexican amber.

ACKNOWLEDGMENTS

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EXPLANATIONS

- † indicates an entirely extinct genus, family or other higher taxon
- all species listed assumed to be extinct unless marked **[Recent]**
- * indicates the type species of (fossil) genera

Stratigraphical abbreviations:

pC = Precambrian, C = Cambrian, O = Ordovician, S = Silurian, D = Devonian, C = Carboniferous, P = Permian

Tr = Triassic, J = Jurassic, K = Cretaceous

Pa = Palaeogene, Ne = Neogene, Qt = Quaternary

PYCNOGONIDA

11 currently valid species of fossil sea spider

- note that in some modern phylogenies the Palaeozoic genera resolve *within* the crown group

PYCNOGONIDA Latreille, 1810 Cambrian – Recent

= ARACHNOPODA Dana, 1853

- † **Cambropycnogon Waloszek & Dunlop, 2002** **Cambrian**
1. *Cambropycnogon klausmuelleri* Waloszek & Dunlop, 2002* € 'Orsten', Sweden
pycnogonid affinities were questioned by Bamber (2007)
- † **Haliestes Siveter, Sutton, Briggs & Siveter, 2004** **Silurian**
2. *Haliestes dasos* Siveter, Sutton, Briggs & Siveter, 2004* S Herefordshire Lgst.
- † **Flagellopantopus Poschmann & Dunlop, 2006** **Devonian**
3. *Flagellopantopus blocki* Poschmann & Dunlop, 2006* D Hünsruckschiefer
- † **Palaeomarachne Rudkin, Cuggy, Young & Thompson, 2013** **Ordovician**
4. *Palaeomarachne granulata* Rudkin, Cuggy, Young & Thompson, 2013* O Manitoba, Canada
- † **Pentapantopus Kühl, Poschmann & Rust, 2013** **Devonian**
5. *Pentapantopus vogteli* Kühl, Poschmann & Rust, 2013* D Hünsruckschiefer
- † **PALAEOSIPODIDAE Dubinin, 1957** **Devonian**
- † **Palaeoisopus Broili, 1928** **Devonian**
6. *Palaeoisopus problematicus* Broili, 1928* D Hünsruckschiefer
- † **PALAEOPANTOPODIDAE Broili, 1930** **Devonian**
- † **Palaeopantopus Broili, 1928** **Devonian**
7. *Palaeopantopus maucheri* Broili, 1928* D Hünsruckschiefer
- PANTOPODA Gerstaecker, 1863** **Devonian – Recent**
- = PEGMATA Fry, 1978
- family uncertain
- † **Palaeothea Bergström, Stürmer & Winter, 1980** **Devonian**
8. *Palaeothea devonica* Bergström, Stürmer & Winter, 1980* D Hünsruckschiefer
- AUSTRODECIDAE Stock, 1954** **Recent**
- no fossil record
- PYCNOGONIDAE Wilson, 1878** **Recent**
- no fossil record

COLOSSENDEIDAE Hoek, 1881 **?Jurassic – Recent**

= PASITHOIDAE Sars, 1891

= RHOPALORHYNCHIDAE Fry, 1978

† **Colossopantopodus Charbonnier, Vannier & Riou, 2007** **Jurassic**

9. *Colossopantopodus boissinensis* Charbonnier, Vannier & Riou, 2007* . J La Voulte-sur-Rhône
tentative referal

AMMOTHEIDAE Dohrn, 1881 **?Jurassic – Recent**

= EURYCIDIDAE Sars, 1891

= OORHYNCHIDAE Schimkewitsch, 1913

= TANYSTYLIDAE Schimkewitsch, 1913

= AMMOTHELLIDAE Fry, 1978

= EPHYROGYMNIDAE Fry, 1978

= PARANYMPHONIDAE Fry, 1978

= SERICOSURIDAE Fry, 1978

= TRYGAEIDAE Fry, 1978

† **Palaeopycnogonides Charbonnier, Vannier & Riou, 2007** **Jurassic**

10. *Palaeopycnogonides gracilis* Charbonnier, Vannier & Riou, 2007* J La Voulte-sur-Rhône
tentative referal

CALLIPALLENIDAE Hilton, 1942 **Recent**= PALLENIDAE Wilson, 1878 [*Pallene* is a preoccupied genus]

= CHEILAPALLENIDAE Fry, 1978

= CLAVIGEROPALLENIDAE Fry, 1978

= HANNONIDAE Fry, 1978

= METAPALLENIDAE Fry, 1978

= QUEUBIDAE Fry, 1978

= STYLOPALLENIDAE Fry, 1978

no fossil record

NYMPHONIDAE Wilson, 1878 **Recent**

no fossil record

PALLENOPSISAE Fry, 1978 **Recent**

no fossil record

ENDEIDAE Norman, 1904 **?Jurassic – Recent**† **Palaeoendeis Charbonnier, Vannier & Riou, 2007** **Jurassic**

11. *Palaeoendeis elmii* Charbonnier, Vannier & Riou, 2007* J La Voulte-sur-Rhône
tentative referal

PHOXICHILIDIIDAE Sars, 1891 **Recent**

= ANOPLODACTYLIDAE Fry, 1978

= PHOXIPHILYRIDAE Fry, 1978

no fossil record

RHYNCHOTHORACIDAE Thompson, 1909 **Recent**

no fossil record

MISIDENTIFICATIONS

1. *Pentapalaeopycnon inconspicua* Hedgpeth, 1978 [crustacean]J Solnhofen
2. *Pycnogonites uncinatus* Quenstedt, 1852 [crustacean]J Solnhofen

c. 1,300 Recent species

(EU)CHELICERATA

5 currently valid, but unplaced (eu)chelicerate fossil species

- *Sanctacaris* has been recovered as an early chelicerate in some phylogenetic studies – most recently by Legg (2014) – although this interpretation is not universal.
- *Offacolus* has been described in detail from reconstructions based on serial sections, and was resolved in some phylogenies to a basal position within Euchelicerata
- *Dibasterium* was described as a horseshoe crab, albeit one with multiple biramous appendages
- the other listed taxa are mostly poor or incomplete specimens which have been treated as either xiphosurans, chasmataspidids or eurypterids
- resting impressions imply that Chasmataspidida were probably present in the late Cambrian

CHELICERATA Heymons, 1901 ?Cambrian – Recent

† *Sanctacaris* Briggs & Collins, 1988 Cambrian

1. *Sanctacaris uncata* Briggs & Collins, 1988* C Burgess Shale

EUCHELICERATA Weygoldt & Paulus, 1979 ?Cambrian – Recent

STEM-EUCHELICERATA?

† *Offacolus* Orr, Siveter, Briggs, Siveter & Sutton, 2000 Silurian

2. *Offacolus kingi* Orr, Siveter, Briggs, Siveter & Sutton, 2000* S Herefordshire Lgst.

† *Dibasterium* Briggs, Siveter, Siveter, Sutton, Garwood & Legg, 2012 Silurian

3. *Dibasterium durgae* Briggs, Siveter, Siveter, Sutton, Garwood & Legg, 2012* S Herefordshire Lgst.

EUCHELICERATA INCERTAE SEDIS

† *Polystomurum* Novojilov, 1958 Devonian

4. *Polystomurum stormeri* Novojilov, 1958* D Voroneje, Siberia

† *Thurandina* Størmer, 1974 Devonian

5. *Thurandina waterstoni* Størmer, 1974* D Alken an der Mosel

XIPHOSURA *s. lat.*

105 currently valid species traditionally assigned to horseshoe crabs, of which 84 are unequivocal Xiphosura

- Lamsdell (2013) argued that Xiphosura may not be monophyletic and that a number of fossils traditionally placed as stem-group (synziphosurine) horseshoe crabs are actually stem-group euchelicerates. The list below attempts to reflect this position, whereby it should be noted that in this scheme the Planaterga clade would also include Chasmataspidida, Eurypterida and Arachnida and Planaterga is nested within Prosomapoda.

PROSOMAPODA Lamsdell, 2013a Silurian – Recent

FAMILY UNSPECIFIED

† *Anderella* Moore, McKenzie & Lieberman, 2007 Carboniferous

1. *Anderella parva* Moore, McKenzie & Lieberman, 2007* C Bear Gulch

† *Borchgrevinkium* Novojilov, 1959 Devonian

2. *Borchgrevinkium taimyrensis* Novojilov, 1959* D Taimyr, Siberia

† *Camanchia* Moore, Briggs, Braddy & Shultz, 2011 Silurian

3. *Camanchia grovensis* Moore, Briggs, Braddy & Shultz, 2011* S Scotch Grove, Iowa

† *Legrandella* Eldredge, 1974 Devonian

4. *Legrandella lombardii* Eldredge, 1974* D Cochabamba, Bolivia

† *Venustulus* Moore, 2005 in Moore *et al.* Silurian

5. *Venustulus waukeshaensis* Moore, 2005 in Moore *et al.** S Waukesha Lgst.

† WEINBERGINIDAE Richter & Richter, 1929 Devonian

† *Weinbergina* Richter & Richter, 1929 Devonian

6. *Weinbergina opitzi* Richter & Richter, 1929* D Hünsruckschiefer

PLANATERGA Lamsdell, 2013a Silurian – Recent

FAMILY UNSPECIFIED

† *Bembicosoma* Laurie, 1899 Silurian

7. *Bembicosoma pomphicus* Laurie, 1899* S Pentland hills

† *Cyamocephalus* Currie, 1927 Silurian

8. *Cyamocephalus loganensis* Currie, 1927* S Lesmahagow

† *Pseudoniscus* Nieszkowski, 1859 Silurian

= † *Neolimulus* Woodward, 1868a

9. *Pseudoniscus aculeatus* Nieszkowski, 1859* S Saaremaa

10. *Pseudoniscus clarkei* Ruedemann, 1916 S Pittsford, New York

11. *Pseudoniscus falcatus* (Woodward, 1868a) S Lesmahagow

12. *Pseudoniscus roosevelti* Clarke, 1902 S 'Bertie Waterlime'

† *Bunaia* Clarke, 1919 Silurian

13. '*Bunaia*' *heintzi* Størmer, 1934a S Spitsbergen
14. *Bunaia woodwardi* Clarke, 1919* S 'Bertie Waterlime'
- † **BUNODIDAE** Packard, 1896 **Silurian**
- † ***Bunodes*** Eichwald, 1854 **Silurian**
 = † *Exapinurus* Nieszkowski, 1859
15. *Bunodes lunula* Eichwald, 1854* S Saaremaa
 i. = *Bunodes rugosus* Eichwald, 1854 S Saaremaa
 ii. = *Exapinurus schrenki* Nieszkowski, 1859 S Saaremaa
- † ***Limuloides*** Woodward, 1865 **Silurian**
 = † *Hemiaspis* Woodward, 1864 [preoccupied]
16. *Limuloides limuloides* (Woodward, 1865) S Ludlow
17. *Limuloides horridus* (Woodward, 1872a) S Ludlow
18. *Limuloides salweyi* (Woodward, 1872a) S Ludlow
 i. = *Hemiaspis tuberculatus* (Salter in Woodward, 1872a) S Ludlow
19. *Limuloides speratus* Woodward, 1872a S Ludlow
 i. = *Hemiaspis optatus* (Salter in Woodward, 1872a) S Ludlow
- † ***Pasternakevia*** Selden & Drygant, 1987 **Silurian**
20. *Pasternakevia podolica* Selden & Drygant, 1987* S Podolia

Planaterga *sensu* Lamsdell (2013a) also includes chasmataspids, eurypterids and arachnids

XIPHOSURA Latreille, 1802 **Ordovician – Recent**

= MEROSTOMATA Dana, 1852

FAMILY UNSPECIFIED

- † ***Kiaeria*** Størmer, 1934b **Silurian**
21. *Kiaeria limuloides* Størmer, 1934b* S Ringerike
- † ***Maldybulakia*** Tesakov & Alekseev, 1998 **Devonian**
 = † *Lophodesmus* Tesakov & Alekseev, 1992 [preoccupied]
- NB: Originally described as possible myriapods
22. *Maldybulakia angusi* Edgecombe, 1998 D New South Wales
23. *Maldybulakia malcomi* Edgecombe, 1998 D New South Wales
24. *Maldybulakia mirabilis* (Tesakov & Alekseev, 1992)* D Kazakhstan
- † ***Willwerathia*** Størmer, 1969 **Devonian**
25. *Willwerathia laticeps* (Størmer, 1936a)* D Willwerath
- † **'KASIBELINURIDAE'** Pickett, 1993 **Devonian**
 = † ELLERIDAE Raymond, 1944
- NB: A paraphyletic family group *sensu* Lamsdell (2016).
- † ***Elleria*** Raymond, 1944 **Devonian**

26. *Elleria morani* (Eller, 1938b)* D Pennsylvania
- † **Kasibelinurus Pickett, 1993** **Devonian**
27. *Kasibelinurus amicorum* Pickett, 1993* D New South Wales
28. *Kasibelinurus yueya* Lamsdell, Xue & Selden, 2013 D Yunann, China
- † **Lunataspis Rudkin, Young & Nowlan, 2008** **Ordovician**
29. *Lunataspis aurora* Rudkin, Young & Nowlan, 2008 O Manitoba
- possible kasibelinurids?**
30. '*Belinurus*' *alleghenyensis* Eller, 1938a D New York State
31. '*Belinurus*' *carterae* Eller, 1940 D Pennsylvania
32. '*Prestwichia*' *randalli* Beecher, 1902 D Pennsylvania
- XIPHOSURIDA Latreille, 1802** **Ordovician – Recent**
- family uncertain**
- † **BELINURINA Zittel & Eastman, 1913** **Carboniferous**
- † **BELINURIDAE Zittel & Eastman, 1913** **Carboniferous**
- = † EUPROOPIIDAE Eller, 1938b
- = † LIOMESASPIDIDAE Raymond, 1944
- † **Alanops Racheboeuf et al., 2002** **Carboniferous**
33. *Alanops magnifica* Racheboeuf et al., 2002 C Montceau-les-Mines
- † **Anacontium Raymond, 1944** **Permian**
34. *Anacontium brevis* Raymond, 1944 P Oklahoma
35. *Anacontium carpenteri* Raymond, 1944 P Oklahoma
- † **Bellinurus Pictet, 1846** **Carboniferous**
- = † *Belinurus* König, 1851
- = † *Steropsis* Baily, 1869
- = † *Koenigiella* Raymond, 1944
- NB: Pictet's 1846 name *Bellinurus* [sic] was based on a misspelling of *Belinurus* from König's unpublished plates, which themselves only became available posthumously as of 1851
36. *Bellinurus arcuatus* Baily, 1863 C Coal Measues
37. *Bellinurus baldwini* Woodward, 1907b C Coal Measues
38. *Bellinurus bellulus* Pictet, 1846 C Coalbrookdale, UK
39. *Bellinurus carwayensis* Dix & Pringle, 1929 C South Wales, UK
40. *Bellinurus concinnus* Dix & Pringle, 1929 C South Wales, UK
41. *Bellinurus grandaevus* Jones & Woodward, 1899 C Nova Scotia
42. *Bellinurus iswariensis* (Chernyshev, 1928) C Donetz Basin
43. *Bellinurus kiltorkensis* Baily, 1869 C Coal Measues
44. *Bellinurus koenigianus* Woodward, 1872a C Coal Measues
45. *Bellinurus lacoeyi* Packard, 1885 C Mazon Creek
46. *Bellinurus longicaudatus* Woodward, 1907b C Coal Measues
47. *Bellinurus lunatus* (Martin, 1809) C Mansfield, UK
48. *Bellinurus metschetensis* (Chernyshev, 1928) C Donetz Basin

49. *Bellinurus morgani* Dix & Pringle, 1930 C South Wales, UK
50. *Bellinurus pustulosus* Dix & Pringle, 1929 C South Wales, UK
51. *Bellinurus reginae* Baily, 1863 C Coal Measues
52. *Bellinurus stepanovi* (Chernyshev, 1928) C Donetsk Basin
53. *Bellinurus trechmanni* Woodward, 1918 C Coal Measues
54. *Bellinurus trilobitoides* (Buckland, 1837)* C Coalbrookdale, UK
55. *Bellinurus truemani* Dix & Pringle, 1929 C South Wales, U
- † **Euproops Meek, 1867** **Carbon. – ?Permian**
- = † *Prestwichia* Woodward, 1867 [preoccupied]
- = † *Prestwichianella* Cockerell, 1905 [replacement name for *Prestwichia*]
56. *Euproops anthrax* (Prestwich, 1840) C Coal Measues
57. *Euproops bifidus* Siegfried, 1972 C Coal Measues
58. *Euproops cambrensis* Dix & Pringle, 1929 C Coal Measues
59. *Euproops danae* (Meek & Worthen, 1865)* C Coal Measues
- i. = *Euproops amiae* Woodward, 1918 C Coal Measues
- ii. = *Euproops darrahi* Raymond, 1944 C Coal Measues
- iii. = *Euproops graigolae* Dix & Pringle, 1929 C South Wales
- iv. = *Euroops gwentii* Dix & Pringle, 1929 C South Wales
- v. = *Euproops islwyni* Dix & Pringle, 1929 C South Wales
- vi. = *Euproops kilmersdonensis* Ambrose & Romano, 1972 C Kilmersdon, UK
- vii. = *Euproops laevicula* Raymond, 1944 C Coal Measues
- viii. = *Euproops laticephalus* Raymond, 1944 C Coal Measues
- ix. = *Euproops packardi* Willard & Jones, 1935 C Coal Measues
- x. = *Prestwichia* (*Euproops*) *scheeleana* Ebert, 1892 C Coal Measues
- xi. = *Euproops thompsoni* Raymond, 1944 C Coal Measues
60. *Euproops longispina* Packard, 1885 C Mazon Creek
61. *Euproops mariae* Crônier & Courville, 2005 C Massif Central
62. *Euproops meeki* Dix & Pringle, 1929 C South Wales
63. *Euproops nitida* Dix & Pringle, 1929 C South Wales
64. *Euproops orientalis* Kobayashi, 1933 ?P Korea
65. *Euproops rotundatus* Prestwich, 1840 C Coal Measues
- Euproops* sp. in Brauckmann (1982) C Piesberg, Germany
- † **Liomesaspis Raymond, 1944** **Carbon. – Permian**
- = † *Pringlia* Raymond, 1944
- = † *Palatinaspis* Malz & Poschmann, 1993
66. ?*Liomesaspis birtwelli* (Woodward, 1872a) C Coal Measues
67. *Liomesaspis laevis* Raymond, 1944* C Coal Measues
- xii. = *Palatinaspis beimbaueri* Malz & Poschmann, 1993 C Saar-Nahe Basin
- xiii. = *Pringlia bispinosa* Raymond, 1944 C Coal Measues
- xiv. = *Pringlia demaisterei* Vandenberghe, 1961 C Coal Measues
- xv. = *Pringlia fritschi* Remy & Remy, 1959 C Coal Measues
68. *Liomesaspis leonardensis* (Tasch, 1961) P Annelly, Kansas

- † ***Prolimulus* Frič, 1899** **Carboniferous**
69. *Prolimulus woodwardi* Frič, 1899* C Nýřany
- LIMULINA Richter & Richter, 1929** **Carbon. – Recent**
unnamed specimen in Krause *et al.* (2009) Tr Ohrdruf, Germany
- † ***Bellinuroopsis* Chernyshev, 1933** **Carboniferous**
= † *Neobelinuroopsis* Eller, 1938a
70. *Bellinuroopsis rossicus* Chernyshev, 1933* C Coal Measures
- † **ROLFEIIDAE Selden & Siveter, 1987** **Carboniferous**
- † ***Rolfeia* Waterston, 1985** **Carboniferous**
71. *Rolfeia fouldenensis* Waterston, 1985* C Fouldon, Scotland
- † **PALEOLIMULOIDEA Raymond, 1944** **Carbon. – Jurassic**
- † **PALEOLIMULIDAE Raymond, 1944** **Carbon. – Jurassic**
= † MESOLIMULIDAE (Størmer, 1952) [in part; see Reik & Gill 1971]
= † MORAVURIDAE Přibyl, 1967
= † DUBBOLIMULIDAE Pickett, 1984
- † ***Limulitella* Størmer, 1952** **Triassic – Jurassic**
= † *Limulites* Schimper, 1853 [preoccupied]
- Limulitella* sp. in Hauschke *et al.* (2004) Tr Madagascar
? *Limulitella* sp. in Hauschke & Wilde (2008) Tr Dallau, Germany
? *Limulitella* sp. in Hauschke *et al.* (2009) Tr Winterswijk
Limulitella or *Psammolimulus* sp. in Križnar & Hitij (2010) Tr Slovenia
72. *Limulitella bronniei* (Schimper, 1853)* Tr Grés à Voltzia
i. = *Limulus sandbergeri* Kirchner, 1923 Tr Germany
73. *Limulitella henkeli* Fritsch, 1906 Tr Halle, Germany
74. ? *Limulitella liasokeuperensis* (Braun, 1860) J Germany
75. *Limulitella tejaensis* Błażejowski, Niedźwiedzki, Boukhalfa & Soussi, 2017 Tr Teja, Tunisia
76. *Limulitella vicensis* (Bleicher, 1897) Tr Lorraine
77. *Limulitella volgensis* Ponomarenko, 1985 Tr Moscow
- † ***Paleolimulus* Dunbar, 1923** **Carbon. – Triassic**
= † *Dubbolimulus* Pickett, 1984
78. *Paleolimulus fuchsbergensis* Hauschke & Wilde, 1987 Tr northwest Germany
79. *Paleolimulus jakovlevi* Glushenko in Glushenko & Ivanov, 1961 P Novoselovka, Ukraine
80. ? *Paleolimulus juresanensis* Chernyshev, 1933 C Ural region
81. *Paleolimulus longispinus* Schram, 1979 C Bear Gulch, Montana
82. *Paleolimulus peetae* (Pickett, 1984) Tr New South Wales
83. *Paleolimulus signatus* (Beecher, 1904) C–P Kansas, Illinois
i. = *Paleolimulus avitus* Dunbar, 1923* P Kansas
Paleolimulus sp. in Ewington *et al.* (1989) P Tasmania

- ?*Palaeolimulus* sp. in Hauschke & Wilde (2000) Tr Harz, Germany
- † ***Xaniopyramis* Siveter & Selden, 1987** **Carboniferous**
84. *Xaniopyramis linseyi* Siveter & Selden, 1987* C Weardale, UK
- LIMULOIDEA Zittel, 1885** **Carbon. – Recent**
- unnamed specimen in Hauschke & Wilde (1989) P Korbacher Bucht
- † ***Casterolimulus* Holland, Erickson & O'Brien, 1975** **Cretaceous**
85. *Casterolimulus kletti* Holland, Erickson & O'Brien, 1975* K North Dakota
- † ***Panduralimulus* Allen & Feldman, 2005** **Permian**
86. *Panduralimulus babcocki* Allen & Feldman, 2005 P Texas
- † ***Valloisella* Racheboeuf, 1992** **Carboniferous**
87. *Valloisella lievinensis* Racheboeuf, 1992* C northern France
- † **AUSTROLIMULIDAE Riek, 1955** **Triassic**
- † ***Austrolimulus* Riek, 1955** **Triassic**
88. *Austrolimulus fletcheri* Riek, 1955* Tr New South Wales
- † ***Vaderlimulus* Lerner, Lucas & Lockley, 2017** **Triassic**
89. *Vaderlimulus tricki* Lerner, Lucas & Lockley, 2017* Tr Idaho, USA
- LIMULIDAE Zittel, 1885** **Triassic – Recent**
- = † MESOLIMULIDAE (Størmer, 1952) [in part; see Reik & Gill 1971]
- ?Limulidae gen. et sp. indet. in Hauschke *et al.* (1992) Tr Rüdersdorf, Germany
- † ***Crenatolimulus* Feldmann, Schweitzer, Dattilo & Farlow, 2011** **Cretaceous**
90. *Crenatolimulus paluxyensis* Feldmann, Schweitzer, Dattilo & Farlow, 2011* K Texas
- Limulus* Müller, 1785** **Triassic – Recent**
91. *Limulus coffini* Reeside & Harris, 1952 K Colorado
92. *Limulus darwini* Kin & Błażejowski, 2014 J Kcynia, Poland
93. "*Limulus*" *decheni* Zinken, 1862 Pa Teuchern, Germany
[NB: Hauschke & Wilde (2004) considered this intermediate between *Limulus* and *Tachypleus*]
94. *Limulus priscus* Münster, 1839 Tr Rottweil, Germany
95. *Limulus woodwardi* Watson, 1909 J Northamptonshire
- † ***Mesolimulus* Størmer, 1952** **Triassic – Cretaceous**
- Mesolimulus* sp. in Ross & Vannier (2002) J southern England
96. *Mesolimulus crespelli* Via Boada, 1987 Tr Tarragona, Spain
97. *Mesolimulus sibiricus* Ponomarenko, 1985 J Siberia
98. *Mesolimulus walchi* (Desmarest, 1822)* J Solnhofen, etc.
- i. = *Limulus brevicauda* Münster in v. d. Hoeven, 1838 J Solnhofen
- ii. = *Limulus brevispina* Münster in v. d. Hoeven, 1838 J Solnhofen
- iii. = *Limulus intermedius* Münster in v. d. Hoeven, 1838 J Solnhofen
- iv. = *Limulus ornatus* Münster in v. d. Hoeven, 1838 J Solnhofen

- v. = *Limulus sulcatus* Münster in v. d. Hoeven, 1838 J Solnhofen
 vi. = *Limulus giganteus* Münster, 1840 J Solnhofen
 NB: not entirely clearly that all these names have been formally synonymised

- † **Psammolimulus Lange, 1923** **Triassic**
 99. *Psammolimulus gottingensis* Lange, 1923* Tr Göttingen, Germany
Tachypleus Leach, 1819 **Triassic – Recent**
 = † *Heterolimulus* Via Boada & Villalta, 1966
 100. *Tachypleus gadeai* (Via Boada & Villalta, 1966) Tr Tarragona, Spain
 101. *Tachypleus syriacus* (Woodward, 1879) K Lebanon
 † **Tarracolimulus Romero & Via Boada, 1977** **Triassic**
 102. *Tarracolimulus rieki* Romero & Via Boada, 1977* Tr Tarragona, Spain
 † **Victalimulus Riek & Gill, 1971** **Cretaceous**
 103. *Victalimulus mcqueeni* Riek & Gill, 1971* K Koonwarra
 † **Yunnanolimulus Zhang, Hu, Zhou, Iv & Bai, 2009** **Triassic**
 104. *Yunnanolimulus luopingensis* Zhang, Hu, Zhou, Iv & Bai, 2009* Tr Luoping, China

INCERTAE SEDIS

- † **Belinuopsis Matthew 1910**
 105. *Belinuopsis wigudensis* Matthew, 1910 C Coal Measures

NOMEN DUBIUM

1. *Limulus nathorsti* Jackson, 1906 J southern Sweden

NOMINA NUDA

1. *Euproops rotunda major* (Woodward, 1907) C Sparth Bottoms
 2. *Veltheimia bicorns* Beyschlag & von Fritsch, 1899 C? Rotliegend

MISIDENTIFICATIONS

1. *Belinurus carterae* Eller, 1940 [synonym of *P. eriensis*; see below]
 2. *Bifarius compta* Tasch, 1961 [insect] P Kansas
 3. *Eolimulus alatus* Moberg, 1892 [doubtful xiphosuran] C Öland, Sweden
 4. *Elmocephalus carltonensis* (Tasch, 1963) [?crustacean] P Kansas
 5. *Hemiaspis tunnecliffei* Chapman, 1932 [trilobite] S Victoria
 6. *Hypatocephala rugosa* Tasch, 1961 [insect] P Kansas
 7. *Lemoneites ambiguus* Flower, 1969 [Echinodermata] O Texas
 8. *Lemoneites gomphocaudatus* Flower, 1969 [Echinodermata] O Texas
 9. *Lemoneites mirabilis* Flower, 1969 [Echinodermata] O Texas
 10. *Lemoneites simplex* Flower, 1969 [Echinodermata] O Texas
 11. *Pincombella belmontensis* Chapman, 1932 [insect – Hemiptera] P New South Wales
 12. *Permolimulinella raris* Tasch, 1963 [insect] P Kansas
 13. *Strongylocephalus charactis* Tasch, 1961 [insect] P Kansas
 14. *Protolimulus eriensis* [Xiphosuran trace fossil: see *Selenichnites*]

4 Recent species

CHASMATASPIDIDA

11 currently valid species of fossil chasmataspidid

- there are some doubts about the monophyly of Chasmataspidida

† CHASMATASPIDIDA Caster & Brooks, 1956	?Camb. – Devonian
= † DIPLOASPIDIDA Simonetta & Delle Cave, 1978	
† CHASMATASPIDIDAE Caster & Brooks, 1956	?Camb. – Ordovician
† <i>Chasmataspis</i> Caster & Brooks, 1956	?Camb. – Ordovician
? <i>Chasmataspis</i> sp. resting traces in Dunlop <i>et al.</i> (2004)	€ Texas
1. <i>Chasmataspis laurencii</i> Caster & Brooks, 1956*	O Tennessee
† DIPLOASPIDIDAE Størmer, 1972	Silurian – Devonian
= † HETEROASPIDIDAE Størmer, 1972	
† <i>Achanarraspis</i> Anderson, Dunlop & Trewin, 2000	Devonian
2. <i>Achanarraspis reedi</i> Anderson, Dunlop & Trewin, 2000*	D Achanarras, Scotland
† <i>Diploaspis</i> Størmer, 1972	Devonian
3. <i>Diploaspis casteri</i> Størmer, 1972*	D Alken an der Mosel
4. <i>Diploaspis muelleri</i> Poschmann, Anderson & Dunlop, 2005	D Hombach, Germany
† <i>Dvulikiaspis</i> Marshall, Lamsdell, Shpinev & Braddy, 2014	Devonian
5. <i>Dvulikiaspis menneri</i> (Novojilov, 1959)*	D Siberia
† <i>Forfarella</i> Dunlop, Anderson & Braddy, 1999	Devonian
6. <i>Forfarella mitchelli</i> Dunlop, Anderson & Braddy, 1999*	D Arbroath, Scotland
† <i>Heteroaspis</i> Størmer, 1972	
7. <i>Heteroaspis stoermeri</i> (Novojilov, 1959)*	D Siberia; Alken
i. = <i>Heteroaspis novojilovi</i> Størmer, 1972	D Alken an der Mosel
† <i>Loganamaraspis</i> Tetlie & Braddy, 2004a	Silurian
8. <i>Loganamaraspis dunlopi</i> Tetlie & Braddy, 2004a*	S Lesmahagow
† <i>Nahlyostaspis</i> Marshall, Lamsdell, Shpinev & Braddy, 2014	Devonian
9. <i>Nahlyostaspis bergstroemi</i> Marshall, Lamsdell, Shpinev & Braddy, 2014*	D Siberia
† <i>Octoberaspis</i> Dunlop, 2002	Devonian
10. <i>Octoberaspis ushakovi</i> Dunlop, 2002*	D October Rev. Is
† <i>Skrytyaspis</i> Marshall, Lamsdell, Shpinev & Braddy, 2014	Devonian
11. <i>Skrytyaspis andersoni</i> Marshall, Lamsdell, Shpinev & Braddy, 2014*	D Siberia

no Recent species

EURYPTERIDA

250 currently valid species of fossil sea scorpion

- Tollerton (1989) suggested removing Hibbertopteroidea from Euryperida s.s., but this has not been adopted by subsequent workers and they are treated here as derived stylonurid eurypterids

† EURYPTERIDA Burmeister, 1843	Ordovician – Permian
= † GIGANTOSTRACA Haeckel, 1866	
= † CYRTOCTENIDA Størmer & Waterston, 1968	
† STYLONURINA Diener, 1924	Ordovician – Permian
= † WOODWARDOPTERINA Kjellesvig-Waering, 1959	
= † HIBBERTOPTERINA Størmer, 1974	
† RHENOPTEROIDEA Størmer, 1951	Ordovician – Devonian
= † BRACHYOPTERELLOIDEA Tollerton, 1989	
† RHENOPTERIDAE Størmer, 1951	Ordovician – Devonian
= † BRACHYOPTERELLIDAE Tollerton, 1989	
† <i>Brachyopterella</i> Kjellesvig-Waering, 1966a	Silurian
1. <i>Brachyopterella pentagonalis</i> (Størmer, 1934b)*	S Ringerike, Norway
2. <i>Brachyopterella ritchiei</i> Waterston, 1979	S Slot Burn, Scotland
† <i>Brachyopterus</i> Størmer, 1951	Ordovician
3. <i>Brachyopterus stubblefieldi</i> Størmer, 1951*	O Montgomeryshire
† <i>Kiaeropterus</i> Waterston, 1979	Silurian
4. <i>Kiaeropterus cyclophthalmus</i> (Laurie, 1892)	S Pentland Hills, Scotl.
5. <i>Kiaeropterus ruedemanni</i> (Størmer, 1934b)*	S Ringerike, Norway
† <i>Leiopterella</i> Lamsdell, Braddy, Loeffler & Dineley, 2010	Devonian
6. <i>Leiopterella tetliei</i> Lamsdell, Braddy, Loeffler & Dineley, 2010	D Nunavut, Canada
† <i>Rhenopterus</i> Størmer, 1936a	Devonian
7. <i>Rhenopterus diensti</i> Størmer, 1936a*	D Willwerath, Germ.
i. = <i>Rhenopterus latus</i> Størmer, 1936a	D Willwerath, Germ.
8. <i>Rhenopterus macrotuberculatus</i> Størmer, 1974	D Alken an der Mosel
9. <i>Rhenopterus tuberculatus</i> Størmer, 1936a	D Overath, Germ.
† STYLONUROIDEA Kjellesvig-Waering, 1959	Silurian – Devonian
† PARASTYLONURIDAE Waterston, 1979	Silurian – Devonian
† <i>Parastylonurus</i> Kjellesvig-Waering, 1966a	Silurian
10. <i>Parastylonurus hendersoni</i> Waterston, 1979	S Pentland Hills, Scotl.
11. <i>Parastylonurus ornatus</i> (Laurie, 1892)*	S Scotland
12. ? <i>Parastylonurus sigmoidalis</i> Kjellesvig-Waering, 1971	S Shropshire, UK

- † ***Stylonurella* Kjellesvig-Waering, 1966a** **Silurian – Devonian**
13. *Stylonurella ?arnoldi* (Ehlers, 1935) D Pennsylvania, USA
14. *Stylonurella ?beecheri* (Hall, 1884c) D Pennsylvania, USA
15. *Stylonurella spinipes* (Page, 1859)* S Kip Burn, Scotland
- i. = *Stylonurus logani* Woodward, 1872 S Kip Burn, Scotland
- † **STYLONURIDAE Diener, 1924** **Silurian–Devonian**
- = † LAURIEIPTERIDAE Kjellesvig-Waering, 1966a
- = † PAGEIDAE Kjellesvig-Waering, 1966a
- † ***Ctenopterus* Clarke & Ruedemann, 1912** **Silurian**
16. *Ctenopterus cestrotus* (Clarke, 1907)* S Otisville, New York
- † ***Laurieipterus* Kjellesvig-Waering, 1966a** **Silurian**
17. *Laurieipterus elegans* (Laurie, 1899)* S Pentland Hills, Scotl.
- † ***Pagea* Waterston, 1962** **Devonian**
18. *Pagea plotnicki* Lamsdell, Braddy, Loeffler & Dineley, 2010 D Nunavut, Canada
19. *Pagea sturrocki* Waterston, 1962* D Old Red Sandstone
20. *Pagea symondsii* (Salter, 1859) D Old Red Sandstone
- † ***Stylonurus* Page, 1856** **Devonian**
21. *Stylonurus powriensis* Page, 1856* D Mid. Valley Scotland
- i. = *Stylonurus ensiformis* Woodward, 1864 D Mid. Valley Scotland
22. ?*Stylonurus shaffneri* Willard, 1933 D Pennsylvania
- † **KOKOMOPTEROIDEA Kjellesvig-Waering, 1966a** **Silurian**
- † **KOKOMOPTERIDAE Kjellesvig-Waering, 1966a** **Silurian**
- † ***Kokomopterus* Kjellesvig-Waering, 1966a** **Silurian**
23. *Kokomopterus longicaudatus* (Clarke & Ruedemann, 1912)* S Kokomo, Indiana
- † ***Lamontopterus* Waterston, 1979** **Silurian**
24. *Lamontopterus knoxae* (Lamont, 1955)* S Pentland Hills, Scotl.
- † **HARDIEOPTERIDAE Tollerton, 1989** **Silurian – Devonian**
- † ***Hallipterus* Kjellesvig-Waering, 1963a** **Devonian**
25. *Hallipterus excelsior* (Hall, 1884a)* D New York
- i. = *Dolichocephala lacoana* Claypole, 1883 D Pennsylvania
- † ***Hardieopterus* Waterston, 1979** **Silurian**
26. ?*Hardieopterus lanarkensis* Waterston, 1979 S Patrick Burn, Scotl.
27. *Hardieopterus macrophthalmus* (Laurie, 1892)* S Pentland Hills, Scotl.
28. *Hardieopterus megalops* (Salter, 1859) S Herefordshire, Engl.
29. *Hardieopterus myops* (Clarke, 1907) S eastern USA
- † ***Tarsopterella* Størmer, 1951** **Devonian**
30. *Tarsopterella scotica* (Woodward, 1872)* D Mid. Valley Scotland
- i. = ?*Erieopterus brewsteri* Woodward, 1864 D Mid. Valley Scotland
- ii. = *Stylonurus armatus* Page, 1867 D Mid. Valley Scotland

- † **MYCTEROPOIDEA Cope, 1886** **Silurian – Permian**
 = † **HIBBERTOPTEROIDEA Kjellesvig-Waering, 1959**
- † **DREPANOPTERIDAE Kjellesvig-Waering, 1966a** **Silurian – Devonian**
- † ***Drepanopterus* Laurie, 1892** **Silurian – Devonian**
31. *Drepanopterus abonensis* Simpson, 1951 D Portishead, England
32. *Drepanopterus odontospathus* Lamsdell, 2012 D Arctic Canada
33. *Drepanopterus pentlandicus* Laurie, 1892* S Pentland Hills, Scotl.
- † **HIBBERTOPTERIDAE Kjellesvig-Waering, 1959** **Devonian – Permian**
 = † **CYRTOCTENIDAE Waterston, Oelofsen & Oosthuizen, 1985**
- † ***Campylocephalus* Eichwald, 1860** **Carboniferous – Perm.**
34. *Campylocephalus oculatus* (Kutorga, 1838)* P Dourasovo, Russia
35. *Campylocephalus permianus* (Ponomarenko, 1985) P Komi, Russia
36. ?*Campylocephalus salmi* Stur, 1877 C Ostrava, Czech Rep.
- † ***Cyrtoctenus* Størmer & Waterston, 1968** **Devonian – Carbon.**
37. *Cyrtoctenus caledonicus* (Salter, 1863) C East Lothian, Scotl.
38. *Cyrtoctenus dewalquei* (Fraipont, 1889) D Pont-de-Bonne, Belg.
- i. = *Eurypterus dewalquei* var. *longimanus* Fraipont,
 1889 D Pont-de-Bonne, Belg.
39. *Cyrtoctenus dicki* (Peach, 1883) C Thurso, Scotland
40. *Cyrtoctenus ostraviensis* (Augusta & Přibyl, 1951) C Ostrava, Czech Rep.
41. *Cyrtoctenus peachi* Størmer & Waterston, 1968* C Berwickshire, Scotl.
42. *Cyrtoctenus wittebergensis* Waterston, Oelofsen & Oosthuizen, 1985 ... C Cape Province
- † ***Dunsopterus* Waterston, 1968** **Carboniferous**
43. *Dunsopterus stevensoni* (Etheridge Jr, 1877)* C Berwickshire, Scotl.
- † ***Hastimima* White, 1908** **Permian**
44. *Hastimima whitei* White, 1908* P Brazil
- † ***Hibbertopterus* Kjellesvig-Waering, 1959** **Carboniferous – Perm.**
45. ?*Hibbertopterus hibernicus* (Baily, 1872) C Kiltorcan, Ireland
46. *Hibbertopterus scouleri* (Hibbert, 1836)* C West Lothian, Scotl.
- † ***Vernonopterus* Waterston, 1957** **Carboniferous**
47. *Vernonopterus minutisculptus* (Peach, 1907)* C Lanarkshire, Scotland
- † **MYCTEROPIIDAE Cope, 1886** **Carboniferous – Perm.**
 = † **WOODWARDOPTERIDAE Kjellesvig-Waering, 1959**
- † ***Megarachne* Hünicken, 1980** **Carboniferous – Perm.**
48. *Megarachne servinei* Hünicken, 1980* C–P Santa Rosa, Arge.
- † ***Mycterops* Cope, 1886** **Carboniferous**
49. ?*Mycterops blairi* Waterston, 1968 C Loanhead, Scotland
50. *Mycterops matthieui* Pruvost, 1924 C Charleroi, Belgium
51. *Mycterops ordinatus* Cope, 1886* C Channelton, PA

52. ?*Mycterops whitei* Schram, 1984 C Crescent, Iowa
- † **Woodwardopterus Kjellesvig-Waering, 1959** **Carboniferous**
53. *Woodwardopterus scabrosus* (Woodward, 1887)* C Glencartholm, Scotl.
- STYLONURINA incertae sedis**
- † ***Stylonuroides* Kjellesvig-Waering, 1966a** **Silurian – Devonian**
54. *Stylonuroides dolichopteroides* (Størmer, 1934b)* S Ringerike, Norway
55. *Stylonuroides orientalis* Shpinev, 2012 D Lake Shunet, Siberia
- † **EURYPTERINA Burmeister, 1843** **Ordovician – Permian**
- † **ONYCHOPTERELLOIDEA Lamsdell, 2011** **Ordovician–Silurian**
- † **ONYCHOPTERELLIDAE Lamsdell, 2011** **Ordovician–Silurian**
- = † ALKENOPTERIDAE Poschmann & Tetlie, 2004
- NB: priority of the family names must be clarified
- † ***Alkenopterus* Størmer, 1974** **Devonian**
56. *Alkenopterus brevitelson* Størmer, 1974* D Alken an der Mosel
57. *Alkenopterus burglahrensis* Poschmann & Tetlie, 2004 D Westerwald, Germ.
- † ***Onychopterella* Størmer, 1951** **Ordovician–Silurian**
58. *Onychopterella augusti* Braddy, Aldridge & Theron, 1995 O Soom Shale, S. Afr.
59. *Onychopterella kokomoensis* (Miller & Gurley, 1896)* S Kokomo, Indiana
- i. = *Eurypterus ranilarva* Clarke & Ruedemann, 1912..... S Kokomo, Indiana
60. ?*Onychopterella pumilus* (Savage, 1916) S Essex, Illinois
- † ***Tylopterella* Størmer, 1951** **Silurian**
61. *Tylopterella boylei* (Whiteaves, 1884) S Ontario, Canada
- † **MOSELOPTEROIDEA Lamsdell, Braddy & Tetlie, 2010** **Silurian – Devonian**
- † **MOSELOPTERIDAE Lamsdell, Braddy & Tetlie, 2010** **Devonian**
- † ***Moselopterus* Størmer, 1974** **Devonian**
62. *Moselopterus ancylotelson* Størmer, 1974* D Alken an der Mosel
63. *Moselopterus elongatus* Størmer, 1974 D Alken an der Mosel
64. *Moselopterus lancmani* (Delle, 1937) D Plavinas, Latvia
- † ***Stoermeropterus* Lamsdell, 2011** **Silurian**
65. *Stoermeropterus conicus* (Laurie, 1892)* S Pentland Hills
- i. = *Drepanopterus bemybycoides* Laurie, 1899..... S Pentland Hills
- ii. = *Drepanopterus lobatus* Laurie, 1899 S Pentland Hills
66. *Stoermeropterus latus* (Størmer, 1934b) S Ringerike, Norway
67. *Stoermeropterus nodosus* (Kjellesvig-Waering & Leutze, 1966) S Bass, West Virginia
- † ***Vinetopterus* Poschmann & Tetlie, 2004** **Devonian**
68. *Vinetopterus martini* Poschmann & Tetlie, 2004 D Westerwald, Germ.
69. *Vinetopterus struvei* (Størmer, 1974)* D Alken an der Mosel
- † **MEGALOGRAPTOIDEA Caster & Kjellesvig-Waering, 1955** **Ordovician**

- † **MEGALOGRAPTIDAE Caster & Kjellesvig-Waering, 1955** **Ordovician**
- † ***Echinognathus* Walcott, 1882** **Ordovician**
70. *Echinognathus clevelandi* Walcott, 1882* O New York
- † ***Megalograptus* Miller, 1874** **Ordovician**
71. *Megalograptus alveolatus* (Shuler, 1915) O Virginia
72. *Megalograptus ohioensis* Caster & Kjellesvig-Waering, 1955 O Ohio
73. *Megalograptus shideleri* Caster & Kjellesvig-Waering, 1964 O Ohio
74. *Megalograptus welchi* Miller, 1874* O Ohio
75. *Megalograptus williamsae* Caster & Kjellesvig-Waering, 1964 O Ohio
- † **‘EURYPTEROIDEA’ Burmeister, 1843** **Ordovician – Devonian**
- NB: Lamsdell *et al.* (2013) questioned the monophyly of this superfamily
- Family uncertain
- † ***Pentlandopterus* Lamsdell, Hoşgör & Selden, 2013** **Ordovician**
76. *Pentlandopterus minor* (Laurie, 1899)* S Pentland Hills, Scotl.
- † ***Paraeurypterus* Lamsdell, Hoşgör & Selden, 2013** **Ordovician**
77. *Paraeurypterus anatoliensis* Lamsdell, Hoşgör & Selden, 2013* O Şort Tepe, Turkey
- † **DOLICHOPTERIDAE Kjellesvig-Waering & Størmer, 1952** **Silurian – Devonian**
- † ***Clarkeipterus* Kjellesvig-Waering, 1966 [a/b?]** **Silurian**
78. *Clarkeipterus ?otisius* (Clarke, 1907) S eastern USA
79. *Clarkeipterus testudineus* (Clarke & Ruedeman, 1912)* S New York
- † ***Dolichopterus* Hall, 1859** **Silurian**
80. *Dolichopterus gotlandicus* Kjellesvig-Waering, 1979 S Gotland, Sweden
81. *Dolichopterus jewetti* Caster & Kjellesvig-Waering, 1956 S New York
82. *Dolichopterus macrocheirus* Hall, 1859* S New York / Canada
83. *Dolichopterus siluriceps* Clarke & Ruedemann, 1912 S New York / Canada
- † ***Ruedemannipterus* Kjellesvig-Waering, 1966** **Silurian**
84. *Ruedemannipterus stylonuroides* (Clarke & Ruedemann, 1912)* S Otisville, New York
- † **EURYPTERIDAE Burmeister, 1843** **Silurian**
- † ***Eurypterus* de Kay, 1825** **Silurian**
- = † *Baltoeurypterus* Størmer, 1973
85. *?Eurypterus cephalaspis* Salter, 1856 S Herefordshire, Engl.
86. *Eurypterus dekayi* Hall, 1859 S New York / Ontario
87. *Eurypterus flintstonensis* Swartz, 1923 S eastern USA
88. *Eurypterus hankeni* Tetlie, 2006a S Ringerike, Norway
89. *Eurypterus henningsmoeni* (Tetlie, 2002) S Bærum, Norway
90. *Eurypterus laculatus* Kjellesvig-Waering, 1958 S New York / Ontario
91. *Eurypterus lacustris* Harlan, 1834 S New York / Ontario
- i. = *Eurypterus pachycheirus* Hall, 1859 S New York / Ontario
- ii. = *Eurypterus robustus* Hall, 1859 S New York / Ontario

92. *Eurypterus leopoldi* Tetlie, 2006a S Somerset Is., Canada
93. *Eurypterus megalops* Clarke & Ruedemann, 1912 S New York
94. *Eurypterus ornatus* Leutze, 1958 S Fayette, Ohio
95. *Eurypterus pittsfordensis* Sarle, 1903 S Pittsford, New York
96. *Eurypterus quebecensis* Kjellesvig-Waering, 1958 S Québec, Canada
97. *Eurypterus remipes* DeKay, 1825* S New York / Ontario
- i. = *Carcinosoma trigona* (Ruedemann, 1916)..... S New York
98. *Eurypterus serratus* (Jones & Woodward, 1888) S Gotland, Sweden
99. *Eurypterus tetragonophthalmus* Fischer, 1839 S Saaremaa, Estonia
- i. = *Eurypterus fischeri* Eichwald, 1854 S Estonia / Ukraine
- ii. = *Eurypterus fischeri* var. *rectangularis* Schmidt, 1883...S Saaremaa, Estonia
- † **ERIEOPTERIDAE Tollerton, 1989** **Silurian – Devonian**
- † ***Erieopterus* Kjellesvig-Waering, 1958** **Silurian – Devonian**
100. *Erieopterus eriensis* (Whitfield, 1882)..... S Ohio
101. *Erieopterus hypsophthalmus* Kjellesvig-Waering, 1958..... S Ohio
102. ?*Erieopterus laticeps* (Schmidt, 1883) S Saaremaa, Ringerike
103. ?*Erieopterus limuloides* (Kjellesvig-Waering, 1948a) S Kokomo, Indiana
104. *Erieopterus microphthalmus* (Hall, 1859)*..... D New York / Canada
105. ?*Erieopterus phillipsensis* Copeland, 1971..... S Cornwallis Is. Canada
106. ?*Erieopterus statzi* Størmer, 1936a D Siegburg, Germany
107. ?*Erieopterus turgidus* Stumm & Kjellesvig-Waering, 1962 S Michigan
- † **STROBILOPTERIDAE Lamsdell & Selden, 2013** **Silurian – Devonian**
- † ***Buffalopterus* Kjellesvig-Waering & Heubusch, 1962** **Silurian**
108. *Buffalopterus pustulosus* (Hall, 1859)*..... S New York / Ontario
- i. = *Eurypterus giganteus* Pohlman, 1882..... S New York / Ontario
- ii. = *Pterygotus globicaudatus* Pohlman, 1882..... S New York / Ontario
- † ***Strobilopterus* Ruedemann, 1935** **Silurian – Devonian**
- = † *Syntomopterus* Kjellesvig-Waering, 1961 [preoccupied]
- = † *Syntomopterella* Tetlie, 2007 [replacement name]
109. *Strobilopterus laticeps* (Schmidt, 1883) S Saaremaa, Estonia
- i. = *Dolichopterus stoermeri* Caster & Kjellesvig-Waering,
1956 S Saaremaa, Estonia
110. *Strobilopterus princetonii* (Ruedemann, 1934)* D Wyoming, USA
- i. = *Erieopterus latus* Ruedemann, 1935 D Wyoming, USA
111. *Strobilopterus proteus* Lamsdell & Selden, 2013 D Wyoming, USA
112. *Strobilopterus richardsoni* (Kjellesvig-Waering, 1961a*) D Ohio
- † **DIPLOPERCULATA Lamsdell, Hoşgör & Selden, 2013** **Ordovician – Devonian**
- † **CARCINOSOMATOIDEA Størmer, 1934b** **Ordovician – Devonian**
- = † MIXOPTEROIDEA Caster & Kjellesvig-Waering, 1955

- † **CARCINOSOMATIDAE Størmer, 1934b** **Ordovician – Devonian**
- † ***Carcinosoma* Claypole, 1890b** **Silurian**
- = † *Eurysoma* Claypole, 1890a [preoccupied]
113. ?*Carcinosoma harleyi* Kjellesvig-Waering, 1961b S England
114. *Carcinosoma libertyi* Copeland & Bolton, 1960 S Manitoulin I., Canada
115. *Carcinosoma newlini* (Claypole, 1890a)* S Kokomo, Indiana
- i. = *Carcinosoma ingens* Claypole, 1894 S Kokomo, Indiana
116. ?*Carcinosoma punctatum* (Salter in Huxley & Salter, 1859) S England
117. *Carcinosoma scorpioides* (Woodward, 1868) S Lesmahagow
- i. = *Pterygotus raniceps* Woodward, 1868 S Lesmahagow
118. *Carcinosoma scoticus* (Laurie, 1899) S Pentland Hills, Scotl.
119. ?*Carcinosoma spiniferum* Kjellesvig-Waering & Heubusch, 1962 S Pittsford, New York
- † ***Eocarcinosoma* Caster & Kjellesvig-Waering, 1964** **Ordovician**
120. *Eocarcinosoma batrachophthalmus* Caster & Kjellesvig-Waering, 1964* O Ohio
- † ***Eusarcana* Strand, 1942** **Silurian – Devonian**
- = † *Eusarcus* Grote & Pitt, 1875 [preoccupied]
- = † *Paracarcinosoma* Caster & Kjellesvig-Waering, 1964
121. *Eusarcana acrocephalus* (Semper, 1898) S–D Barrandian area
122. *Eusarcana obesus* (Woodward, 1868) S Lesmahagow
123. *Eusarcana scorpionis* (Grote & Pitt, 1875)* S New York / Ontario
- † ***Rhinocarcinosoma* Novojilov, 1962** **Silurian**
124. *Rhinocarcinosoma cicerops* (Clarke, 1907) S Otisville, New York
125. *Rhinocarcinosoma dosonensis* Braddy, Selden & Doan Nhat, 2002 S Dô Son, Vietnam
126. *Rhinocarcinosoma vaningeni* (Clarke & Ruedemann, 1912)* S Clinton, New York
- † **MIXOPTERIDAE Caster & Kjellesvig-Waering, 1955** **Silurian**
- = † LANARKOPTERIDAE Tollerton, 1989
- † ***Lanarkopterus* Ritchie, 1968** **Silurian**
127. *Lanarkopterus dolichoschelus* (Størmer, 1936b)* S Scotland
- † ***Mixopterus* Ruedemann, 1921** **Silurian**
128. *Mixopterus kiaeri* Størmer, 1934b S Ringerike, Norway
129. *Mixopterus multispinosus* (Clarke & Ruedemann, 1912)* S New York
130. *Mixopterus simonsoni* Schmidt, 1883 S Saaremaa, Estonia
- † **'WAERINGOPTEROIDEA'** **Silurian – Devonian**
- NB: Superfamily name appears to be derived from a thesis; a family Waeringopteridae has not been formally published
- † ***Grossopterus* Størmer, 1934c** **Devonian**
131. *Grossopterus overathi* (Gross, 1933)* D Overath
132. *Grossopterus inexpectans* (Ruedemann, 1921) D Gilboa
- † ***Orcanopterus* Stott, Tetlie, Braddy, Nowlan, Glasser & Devereux, 2005** **Ordovician**

133. *Orcanopterus manitoulinensis* Stott, Tetlie, Braddy, Nowlan, Glasser
& Devereux, 2005* O Manitoulin I., Canada
- † **Waeringopterus Leutze, 1961** **Silurian**
134. *Waeringopterus apfeli* Leutze, 1961 S New York / Ontario
135. *Waeringopterus cumberlandicus* (Swartz, 1923)* S West Virginia
- i. = *Eurypterus swartzi* Kjellesvig-Waering, 1958 S West Virginia
- † **ADELOPHTHALMOIDEA Tollerton, 1989** **Devonian – Permian**
- † **ADELOPHTHALMIDAE Tollerton, 1989** **Devonian – Permian**
- † **Adelophthalmus Jordan in Jordan & von Mayer, 1854** **Devonian – Permian**
- = † *Lepidoderma* Reuss, 1855
- = † *Anthraconectes* Meek & Worthen, 1868 [a/b?]
- = † *Polyzosternites* Goldenberg, 1873
- = † *Glyptoscorpis* Peach, 1882
136. *Adelophthalmus approximatus* (Hall & Clarke, 1888) C Pennsylvania, USA
137. *Adelophthalmus asturica* (Melendez, 1971) C d'Ablana, Spain
138. *Adelophthalmus bradorensis* (Bell, 1922) C N. Campbelltown
139. *Adelophthalmus cambieri* (Pruvost, 1930) C Charleroi, Belgium
140. ?*Adelophthalmus carbonarius* (Chernyshev, 1933) C Donets, Ukraine
141. *Adelophthalmus chinensis* (Grabau, 1920) C–P Zhaozezhuang
142. *Adelophthalmus corneti* (Pruvost, 1939) C Quaregnon, Belgium
143. *Adelophthalmus douvillei* (de Lima, 1890) P Bussaco, Portugal
144. *Adelophthalmus dumonti* (Stainier, 1917) C Mechelen-sur-Meuse
145. *Adelophthalmus granosus* Jordan in Jordan & von Meyer, 1854* C Saarbrücken, Germ.
146. *Adelophthalmus imhofi* (Reuss, 1855) C Vlkys, Czech Rep.
147. *Adelophthalmus irinae* Shpinev, 2006 C Krasnoyarsk, Russia
148. *Adelophthalmus kidstoni* (Peach, 1888) C Radstock, England
149. ?*Adelophthalmus lohesti* (Dewalque in Fraipont 1889) D Pont de Bonne, Belg.
150. *Adelophthalmus luceroensis* Kues & Kietzke, 1981 P New Mexico
151. *Adelophthalmus mansfieldi* (Hall, 1877) C Pennsylvania
- i. = *Eurypterus stylus* Hall, 1884 C Pennsylvania
152. *Adelophthalmus mazonensis* (Meek & Worthen, 1868) C Illinois
153. *Adelophthalmus moyseyi* (Woodward, 1907a) C Ilkeston, Blaengarw
- i. = *Eurypterus derbiensis* Woodward, 1907a C Ilkeston, England
154. *Adelophthalmus nebraskensis* (Barbour, 1914) P Nebraska
155. *Adelophthalmus pennsylvanicus* (Hall, 1877) C Pennsylvania
156. ?*Adelophthalmus perornatus* (Peach, 1882) C Glencartholm, Scotl.
157. *Adelophthalmus pruvosti* Kjellesvig-Waering, 1948b C Lens, France
158. *Adelophthalmus piussii* Lamsdell, Simonetto & Selden 2013 C Carnic Alps, Italy
159. ?*Adelophthalmus raniceps* Goldenberg, 1873 C Saarbrücken, Germ.
160. *Adelophthalmus sellardsi* (Dunbar, 1924) P Elmo, Kansas
161. *Adelophthalmus sievertsi* (Størmer, 1969) D Willwerath, Germ.

- i. = ?*Eurypterus trapezoides* Størmer, 1974 D Nellenköpfchen, Ger.
162. *Adelophthalmus waterstoni* (Tetlie *et al.*, 2004) D Kimberley, Australia
163. *Adelophthalmus wilsoni* (Woodward, 1888) C Radstock, England
164. *Adelophthalmus zadrai* Přibyl, 1952 C Moravo-Silesia
- † ***Bassipterus* Kjellesvig-Waering & Leutze, 1966** **Silurian**
165. *Bassipterus virginicus* Kjellesvig-Waering & Leutze, 1966* S Bass, West Virginia
- † ***Eysyslopterus* Tetlie & Poschmann, 2008** **Silurian**
166. *Eysyslopterus patteni* (Størmer, 1934d) S Saaremaa, Estonia
- † ***Nanahughmilleria* Kjellesvig-Waering, 1961b** **Silurian – Devonian**
167. *Nanahughmilleria clarkei* Kjellesvig-Waering, 1964b S Otisville, New York
168. *Nanahughmilleria norvegica* (Kiær, 1911)* S Ringerike, Norway
- i. = *Eurypterus minutus* Kiær, 1911 S Ringerike, Norway
169. *Nanahughmilleria notosiberica* Shpinev, 2012 D Krasnoyarsk, Siberia
170. ?*Nanahughmilleria prominens* (Hall, 1884b) S Cayuga, New York
171. *Nanahughmilleria pygmaea* (Salter, 1859) S Herefordshire, Engl.
172. ?*Nanahughmilleria schiraensis* (Pirozhnikov, 1957) D Khakassia, Russia
- † ***Parahughmilleria* Kjellesvig-Waering, 1961b** **Silurian – Devonian**
173. *Parahughmilleria bellistriata* (Kjellesvig-Waering, 1950a) S West Virginia
174. *Parahughmilleria hefteri* Størmer, 1973 D Rhenish Massif, Ge.
175. *Parahughmilleria longa* Shpiney, 2012 D Lake Shunet, Siberia
176. *Parahughmilleria maria* (Clarke, 1907) S New York
177. *Parahughmilleria matarakensis* (Pirozhnikov, 1957) D Khakassia, Russia
178. *Parahughmilleria salteri* Kjellesvig-Waering, 1961b* S Herefordshire, Engl.
- † ***Pittsfordipterus* Kjellesvig-Waering & Leutze, 1966** **Silurian**
179. *Pittsfordipterus phelpsae* (Ruedemann, 1921)* S Pittsford, New York
- † **PTERYGOTIOIDEA Clarke & Ruedemann, 1912** **Silurian – Devonian**
- † **HUGHMILLERIIDAE Kjellesvig-Waering, 1951** **Silurian**
- † ***Herefordopterus* Tetlie, 2006b** **Silurian**
180. *Herefordopterus banksii* (Salter, 1856)* S Herefordshire, Engl.
- i. = *Eurypterus acuminatus* Salter, 1859a S Herefordshire, Engl.
- † ***Hughmilleria* Sarle, 1903** **Silurian**
181. *Hughmilleria shawangunk* Clarke, 1907 S eastern USA
182. *Hughmilleria socialis* Sarle, 1903* S Pittsford, New York
- i. = *Hughmilleria robusta* Sarle, 1903 S Pittsford, New York
183. *Hughmilleria wangi* Tetlie, Selden & Ren, 2007 S Hunan, China
- † **SLIMONIDAE Novojilov, 1968** **Silurian**
- † ***Salteropterus* Kjellesvig-Waering, 1951** **Silurian**
184. *Salteropterus abbreviatus* (Salter, 1859)* S Herefordshire, Engl.
- † ***Slimonia* Page, 1856** **Silurian**
185. *Slimonia acuminata* Salter, 1856* S Lesmahagow

- i. = *Himantopterus maximus* Salter, 1856 S Lesmahagow
186. *Slimonia boliviana* Kjellesvig-Waering, 1973 S Cochambamba, Bol.
187. *Slimonia dubia* Laurie, 1899 S Pentland Hills, Scotl.
- † **PTERYGOTIDAE Clarke & Ruedemann, 1912** **Silurian – Devonian**
 = † JAEKELOPTERIDAE Størmer, 1974
- † ***Acutiramus* Ruedemann, 1935** **Silurian – Devonian**
188. *Acutiramus bohemicus* (Barrande, 1872) S Barrandian area
- i. = *Pterygotus comes* Barrande, 1872 S Barrandian area
- ii. = *Pterygotus mediocris* Barrande, 1872 S Barrandian area
- iii. = *Pterygotus blahai* Semper, 1898 S Barrandian area
- iv. = *Pterygotus fissus* Seemann, 1906 S Barrandian area
189. *Acutiramus cummingsi* (Grote & Pitt, 1875) S USA / Canada
- i. = *Pterygotus acuticaudatus* Pohlman, 1882 S New York
- ii. = *Pterygotus buffaloensis* Pohlman, 1881 S New York
- iii. = *Pterygotus quadraticaudatus* Pohlman, 1882 S New York
190. *Acutiramus floweri* Kjellesvig-Waering & Caster, 1955 S Kenwood, New York
191. *Acutiramus macrophthalmus* (Hall, 1859)* S USA / Canada
- i. = *Pterygotus osborni* Hall, 1859 S New York
- ii. = *Pterygotus cobbi* var. *juvenis* Clarke & Ruedemann,
 1912 S New York
192. *Acutiramus perneri* Chlupáč, 1994 D Barrandian area
193. *Acutiramus perryensis* Leutze, 1958 S Ohio
194. *Acutiramus suwanneensis* Kjellesvig-Waering, 1955 S? Florida
- † ***Ciurcopteris* Tetlie & Briggs, 2009** **Silurian**
195. *Ciurcopteris sarlei* (Ciburca & Tetlie, 2007) S Pittsford, New York
196. *Ciurcopteris ventricosus* (Kjellesvig-Waering, 1948a)* S Kokomo, Indiana
- † ***Erettopteris* Salter in Huxley & Salter, 1859** **Silurian – Devonian**
 = † *Truncatiramus* Kjellesvig-Waering, 1961b
197. *Erettopteris bilobus* (Salter, 1856)* S Lesmahagow
- i. = *Eurypterus perornatus* Salter, 1856 S Lesmahagow
- ii. = *Pterygotus bilobus* var. *acidens* Woodward, 1878 S Lesmahagow
- iii. = *Pterygotus bilobus* var. *crassus* Woodward, 1878 S Lesmahagow
- iv. = *Pterygotus bilobus* var. *inornatus* Woodward, 1878 S Lesmahagow
- v. = *Pterygotus bilobus* var. *perornatus* Woodward, 1878 S Lesmahagow
- vi. = *Pterygotus perornatus* var. *plicatissimus* Salter in
 Huxley & Salter, 1859 S Lesmahagow
198. *Erettopteris brodiei* Kjellesvig-Waering, 1961b S Herefordshire, Engl.
199. *Erettopteris canadensis* (Dawson, 1879) S Ontario, Canada
200. *Erettopteris exophthalmus* Kjellesvig-Waering & Leutze, 1966 S Bass, West Virginia
201. *Erettopteris gigas* Salter in Huxley & Salter, 1859 S Herefordshire, Engl.
202. *Erettopteris globiceps* Clarke & Ruedemann, 1912 S eastern USA

203. *Erettopterus grandis* Pohlman, 1881 S New York
204. *Erettopterus holmi* (Størmer, 1934b) S Ringerike, Norway
205. *Erettopterus laticauda* Schmidt, 1883 S Saaremaa, Estonia
206. *Erettopterus marstoni* Kjellesvig-Waering, 1961b S England
207. *Erettopterus megalodon* Kjellesvig-Waering, 1961b S England
208. *Erettopterus osiliensis* Schmidt, 1883 S Saaremaa, Estonia
209. *Erettopterus saetiger* Kjellesvig-Waering, 1964a S Pennsylvania
210. *Erettopterus serratus* Kjellesvig-Waering, 1961b D Ohio
211. *Erettopterus spatulatus* Kjellesvig-Waering, 1961b S Herefordshire, Engl.
212. ?*Erettopterus vogti* Størmer, 1934a D Spitsbergen
213. *Erettopterus waylandsmithi* Kjellesvig-Waering & Caster, 1955 S Kenwood, New York
- † **Jaekelopterus Waterston, 1964** **Devonian**
214. *Jaekelopterus howelli* Kjellesvig-Waering & Størmer, 1952 D Wyoming
- i. = *Pterygotus mcgrewi* Kjellesvig-Waering & Richardson
 In Kjellesvig-Waering (1986) [*nomen nudum*] D Wyoming
215. *Jaekelopterus rhenaniae* (Jaekel, 1914)* D Germany
- † **Necrogammarus Woodward, 1870** **Silurian**
216. *Necrogammarus salweyi* Woodward, 1870 S Herefordshire, Engl.
- † **Pterygotus Agassiz, 1839** **Silurian – Devonian**
- = † *Curviramus* Reudemann, 1935
217. *Pterygotus anglicus* Agassiz, 1844* D Scotland, Canada
- i. = *Pterygotus atlanticus* Clarke & Ruedemann, 1912..... D New Brunswick, Can.
- ii. = *Pterygotus minor* Woodward, 1864 D Scotland
218. *Pterygotus arcuatus* Salter in Huxley & Salter, 1859 S Herefordshire, Engl.
219. ?*Pterygotus australis* McCoy, 1899 S Melbourne, Australia
220. *Pterygotus barrandei* Semper, 1898 S Barrandian area
- i. = *Pterygotus beraunensis* Semper, 1898 S Barrandian area
221. *Pterygotus bolivianus* Kjellesvig-Waering, 1964a D Belen, Bolivia
222. *Pterygotus carmani* Kjellesvig-Waering, 1961 D Ohio
223. *Pterygotus cobbi* Hall, 1859 S New York / Canada
224. *Pterygotus denticulatus* Kjellesvig-Waering, 1961b S Herefordshire, Engl.
225. *Pterygotus floridanus* Kjellesvig-Waering, 1950b D Florida
226. *Pterygotus gaspesiensis* Russell, 1953 D Québec, Canada
227. ?*Pterygotus grandidentatus* Kjellesvig-Waering, 1961b S England
228. ?*Pterygotus impacatus* Kjellesvig-Waering, 1964a S Saaremaa, Estonia
229. *Pterygotus kopaninensis* Barrande, 1872 S Barrandian area, Cz.
230. *Pterygotus lanarkensis* Kjellesvig-Waering, 1964a S Lesmahagow, Scotl.
231. *Pterygotus lightbodyi* Kjellesvig-Waering, 1961b S England
232. *Pterygotus ludensis* Salter in Huxley & Salter, 1859 S Herefordshire, Engl.
233. *Pterygotus marylandicus* Kjellesvig-Waering, 1964a S Maryland
234. *Pterygotus monroensis* Sarle 1902 S New York

EURYPTERIDA *incertae sedis*

- † **Dorfopterus** Kjellesvig-Waering, 1955 **Devonian**
 235. *Dorfopterus angusticollis* Kjellesvig-Waering, 1955* D Wyoming
- † ? **Dolichopterus**
 236. ?*Dolichopterus asperatus* Kjellesvig-Waering, 1961 [a/b?] D Ohio
 237. ?*Dolichopterus bulbosus* Kjellesvig-Waering, 1961b S Herefordshire, Engl.
 238. ?*Dolichopterus herkimereensis* Caster & Kjellesvig-Waering, 1956 S New York / Canada
- † ? **Eurypterus**
 239. ?*Eurypterus loi* Chang, 1957 [non eurypterid?] S Hubei, China
 240. ?*Eurypterus podolicus* Chernyshev, 1947 S Ukraine
 241. ?*Eurypterus satpaevi* Simorin, 1956 C Karaganda, Kazakh.
 242. ?*Eurypterus styliformis* Chang, 1957 [non eurypterid?] S Hubei, China
 243. ?*Eurypterus tschernyschevi* Simorin, 1956 C Karaganda, Kazakh.
 244. ?*Eurypterus yangi* Chang, 1957 [non eurypterid?] S Hubei, China
- † **Holmipterus** Kjellesvig-Waering, 1979 **Silurian**
 245. *Holmipterus suecicus* Kjellesvig-Waering, 1979 S Gotland, Sweden
- † **Marsuipterus** Caster & Kjellesvig-Waering, 1955 **Silurian**
 246. *Marsuipterus sculpturatus* Caster & Kjellesvig-Waering, 1955* S Herefordshire, Engl.
- † ? **Nanahughmilleria**
 247. ?*Nanahughmilleria lanceolata* Salter, 1856 S Lesmahagow
 i. = *Eurypterus chartarius* Salter, 1859 S Lesmahagow
 ii. = *Eurypterus linearis* Salter, 1859 S Lesmahagow
- † ? **Salteropterus**
 248. ?*Salteropterus longilabium* Kjellesvig-Waering, 1961b S Welsh Borderlands
- † ? **Stylonurus**
 249. ?*Stylonurus perspicillum* Størmer, 1969 D Willwerath, Germany
- † **Unionopterus** Chernyshev, 1948 **Carboniferous**
 250. *Unionopterus anastasiae* Chernyshev, 1948* C Kazakhstan

NOMINA DUBIA

1. *Bunodella horrida* Matthew, 1888 [non Xiphosura] S New Brunswick
2. ?*Dunsopterus wrightianus* Dawson 1881 D New York
3. *Eurypterella ornata* Matthew, 1888 C 'Fern Ledges'
4. *Eurypterus potens* Hall, 1884 C Pennsylvania
5. *Eurypterus pulicaris* Salter, 1863 D New Brunswick
6. *Hastimima sewardi* Strand, 1926 D South Africa
7. ?*Pterygotus formosus* Dawson, 1871 D Gaspé, Canada
8. *Pterygotus nobilis* Barrande, 1872 S Barrandian area
9. *Pterygotus siemiradzki* Strand, 1926 D Podolia, Ukraine
10. *Pterygotus taurinus* Salter, 1868 S Ewyas Harold, Engl.
11. ?*Slimonia stylops* Salter in Huxley & Salter, 1859 S Herefordshire, Engl.

NOMINA NUDA

1. *Baltoeurypterus latus* Hanken & Størmer, 1975 S Ringerike, Norway

NOMINA VANA

1. *Pterygotus problematicus* Agassiz, 1844 S United Kingdom

MISIDENTIFICATIONS

1. *Buffalopterus verrucosus* Kjellesvig-Waering & Heubusch, 1962 [crustacean] ... O New York
 2. *Carcinosoma ?logani* (Williams, 1915) [crustacean] S Ontario, Canada
 3. *Eurypterus (Stylonurus?) macCarthyi* Kjellesvig-Waering, 1934 [cephalopod] ... D Ludlowville, New York
 4. *Eurypterus pugio* Barrande, 1872 [crustacean] S Barrandian area
 5. *Eurypterus thomasi* Walter, 1924 [aglaspidid] C Wisconsin
 6. *Kockurus grandis* Chlupáč, 1995 [?aglaspidid] C central Bohemia
 7. *Kodymirus vagans* Chlupáč & Havlíček, 1965 [?aglaspidid] C central Bohemia
 8. *Mazonipterus cyclophthalmus* Kjellesvig-Waering, 1963b [plant] C Mazon Creek
 9. *Melbournopterus crossotus* Caster & Kjellesvig-Waering, 1953 [brachiopod] ... S Melbourne, Australia
 10. *Pterygotus expectatus* Barrande, 1872 [crustacean] S Barrandian area
 11. *Pterygotus (Curviramus) elleri* Ruedemann, 1935 [crustacean] D New York
 12. *Pterygotus (Curviramus) montanensis* Ruedemann, 1935 [crustacean] D Montana
 13. *Pterygotus (Leptocheles) leptodactylum* M'Coy, 1849 [crustacean] S Herefordshire, Engl.

PSEUDOFOSILS

1. *Brachyopterella magna* (Clarke & Ruedemann, 1912) O New York
 2. *?Carcinosoma linguata* (Clarke & Ruedemann, 1912) O New York
 3. *?Carcinosoma longiceps* (Clarke & Ruedemann, 1912) O New York
 4. *Dolichopterus antiquus* Ruedemann, 1942 O New York
 5. *Dolichopterus frankfortensis* (Clarke & Ruedemann, 1912) O New York
 6. *Dolichopterus insolitus* Ruedemann, 1926 O New York
 7. *?Dolichopterus stellatus* (Clarke & Ruedemann, 1912) O New York
 8. *?Drepanopterus ruedemanni* (O'Connell, 1916) O New York
 9. *?Eocarcinosoma breviceps* (Ruedemann, 1926) O New York
 10. *Eocarcinosoma ruedemanni* (Flower, 1945) O New York
 11. *Eocarcinosoma triangulatus* (Clarke & Ruedemann, 1912) O New York
 12. *Erettopterus walcotti* (Ruedemann, 1926) O New York
 13. *Erieopterus chadwicki* (Clarke & Ruedemann, 1912) O New York
 14. *Erieopterus hudsonicus* (Ruedemann, 1934) O New York
 15. *?Eurypterus decepiens* (Ruedemann, 1942) O New York
 16. *Eurypterus indicus* Dubey, 1985 pC M. Pradesh, India
 17. *?Eurypterus pristinus* (Clarke & Ruedemann, 1912) O New York
 18. *Eurypterus vermai* Dubey, 1985 pC M. Pradesh, India
 19. *Hughmilleria chiplonkari* Dubey, 1985 pC M. Pradesh, India

20. *Hughmilleria kilfoylei* Ruedemann, 1934 O New York
21. *Hughmilleria prisca* Ruedemann, 1934 O New York
22. *Hughmilleria uticana* Ruedemann, 1926 O New York
23. *Parastylonurus rusti* (Ruedemann, 1926) O New York
24. *Pterygotus deepkillensis* Ruedemann, 1934 O New York
25. *Pterygotus nasutus* Clarke & Ruedemann, 1912 O New York
26. ?*Pterygotus normanskillensis* Clarke & Ruedemann, 1912 O New York
27. *Ruedemannipterus breviceps* (Clarke & Ruedemann, 1912) O New York
28. *Ruedemannipterus latifrons* (Clarke & Ruedemann, 1912) O New York
29. *Stylonurella modestus* (Clarke & Ruedemann, 1912) O New York
30. *Stylonuroides limbatus* (Clarke & Rudemann, 1912) O New York
31. ?*Waeringopterus pristinus* (Ruedemann, 1942) O New York
32. *Waeringopterus prolificus* (Clarke & Ruedemann, 1912) O New York

no Recent species

SCORPIONES

141 currently valid species of fossil scorpion

SCORPIONES C. L. Koch, 1851	Silurian – Recent
† Plesion (Family) PROSCORPIIDAE Scudder, 1885	Silurian – Carbon.
= † ARCHAEOCTONIDAE Petrunkevitch, 1949	
= † HYDROSCORPIONIDAE Kjellesvig-Waering, 1986	
= † LABRIOSCORPIONIDAE Kjellesvig-Waering, 1986	
= † STOERMEROSCORPIONIIDAE Kjellesvig-Waering, 1986	
= † WAERINGOSCORPIONIDAE Størmer, 1970	
† Archaeoctonus Pocock, 1911	Carboniferous
1. <i>Archaeoctonus glaber</i> (Peach, 1883)*	C Glencartholm
† Hydroscorpius Kjellesvig-Waering, 1986	Devonian
2. <i>Hydroscorpius denisoni</i> Kjellesvig-Waering, 1986*	D Wyoming
† Labriscorpio Leary, 1980	Carboniferous
3. <i>Labriscorpio alliedensis</i> Leary, 1980*	C Illinois
† Proscorpius Whitfield, 1885b	Silurian
= † <i>Archaeophonus</i> Kjellesvig-Waering, 1966b	
= † <i>Stoermeroscorpio</i> Kjellesvig-Waering, 1986	
4. <i>Proscorpius osborni</i> (Whitfield, 1885a)*	S 'Bertie Waterlime'
i. = <i>Archaeophonus eurypteroides</i> Kjellesvig-Waering,	
1966b*	S 'Bertie Waterlime'
ii. = <i>Stoermeroscorpio delicatus</i> Kjellesvig-Waering, 1986	S 'Bertie Waterlime'
† Pseudoarchaeoctonus Kjellesvig-Waering, 1986	Carboniferous
5. <i>Pseudoarchaeoctonus denticulatus</i> Kjellesvig-Waering, 1986*	C Glencartholm
† Waeringoscorpio Størmer, 1970	Devonian
6. <i>Waeringoscorpio hefteri</i> Størmer, 1970*	D Alken an der Mosel
7. <i>Waeringoscorpio westerwaldensis</i> Poschmann, Dunlop, Kamenz & Scholtz, 2008	D Westerwald
† BILOBOSTERNINA Kjellesvig-Waering, 1986 (suborder)	Silurian – Devonian
† BRANCHIOSCORPIONOIDEA Kjellesvig-Waering, 1986	Devonian
† BRANCHIOSCORPIONIIDAE Kjellesvig-Waering, 1986	Devonian
† Branchioscorpio Kjellesvig-Waering, 1986	Devonian
8. <i>Branchioscorpio richardsoni</i> Kjellesvig-Waering, 1986*	D Wyoming
† DOLICHOPHONIIDAE Petrunkevitch, 1953	Silurian
† Dolichophonus Petrunkevitch, 1949	Silurian

9. *Dolichophonus loudonensis* (Laurie, 1899)* S Pentland Hills
- † **HOLOSTERNINA Kjellesvig-Waering, 1986** **Devonian**
- † **ACANTHOSCORPIONOIDEA Kjellesvig-Waering, 1986** **Devonian**
- † **ACANTHOSCORPIONIIDAE Kjellesvig-Waering, 1986** **Devonian**
- † ***Acanthoscorpio* Kjellesvig-Waering, 1986** **Devonian**
10. *Acanthoscorpio mucronatus* Kjellesvig-Waering, 1986* D Wyoming
- † **STENOSCORPIONIIDAE Kjellesvig-Waering, 1986** **Triassic**
- † ***Stenoscorpio* Kjellesvig-Waering, 1986** **Triassic**
11. *Stenoscorpio gracilis* (Wills, 1910)* Tr Keuper sandstone
12. *Stenoscorpio pseudogracilis* (Wills, 1947) Tr Keuper sandstone
- † **ALLOPALAEOPHONOIDEA Kjellesvig-Waering, 1986** **Silurian**
- † **ALLOPALAEOPHONIDAE Kjellesvig-Waering, 1986** **Silurian**
- † ***Allopalaeophonus* Kjellesvig-Waering, 1986** **Silurian**
13. *Allopalaeophonus caledonicus* (Hunter, 1886)* S Logan Water
- i. = *Palaeophonus hunteri* Pocock, 1901 S Logan Water
- † **EOCTONOIDEA Kjellesvig-Waering, 1986** **Carboniferous**
- † **ALLOBUTHISCORPIIDAE Kjellesvig-Waering, 1986** **Carboniferous**
- NB: *Allobuthiscorpius* is now a junior synonym (see below)
- † ***Aspiscorpio* Kjellesvig-Waering, 1986** **Carboniferous**
14. *Aspiscorpio eageri* Kjellesvig-Waering, 1986* C Sparth Bottoms
- Aspiscorpio* sp. in Poschmann (2009) C Saar
- † **ANTHRACOSCORPIONIDAE Frič, 1904** **Carboniferous**
- † ***Allobuthus* Kjellesvig-Waering, 1986** **Carboniferous**
15. *Allobuthus pescei* (Vachon & Heyler, 1985)* C Montceau-les-Mines
- † ***Anthracoscorpio* Kušta, 1885** **Carboniferous**
16. *Anthracoscorpio dunlopi* Pocock, 1911 C Airdrie
17. *Anthracoscorpio juvenis* Kušta, 1885* C Rakovník
- † **BUTHISCORPIIDAE Kjellesvig-Waering, 1986** **Carboniferous**
- † ***Buthiscorpius* Petrunkevitch, 1953** **Carboniferous**
18. *Buthiscorpius lemayi* Kjellesvig-Waering, 1986 C Illinois
- † **EOCTONIDAE Kjellesvig-Waering, 1986** **Carboniferous**
- † ***Eoctonus* Petrunkevitch, 1913** **Carboniferous**
19. *Eoctonus miniatus* Petrunkevitch, 1913* C Mazon Creek
- † **GARNETTIIDAE Dubinin, 1962** **Carboniferous**

- † **Garnettius Petrunkevitch, 1953** **Carboniferous**
 20. *Garnettius hungerfordi* (Elias, 1936)* C Garnett, Kansas
- † **GIGANTOSCORPIONOIDEA Kjellesvig-Waering, 1986** **Devonian – Carbon.**
- † **GIGANTOSCORPIONIDAE Kjellesvig-Waering, 1986** **Devonian – Carbon.**
 = † PETALOSCORPIONIDAE Kjellesvig-Waering, 1986
- † **Gigantoscopus Størmer, 1963** **Carboniferous**
 21. *Gigantoscopus willsi* Størmer, 1963* C Glencartholm
- † **Petaloscopus Kjellesvig-Waering, 1986** **Devonian**
 22. *Petaloscopus bureaui* Kjellesvig-Waering, 1986* D Miguasha, Quebec
- † **MESOPHONOIDEA Wills, 1910** **Carbon. – Triassic**
- † **CENTROMACHIDAE Petrunkevitch, 1953** **Carboniferous**
 = † ANTHRACOCOAERILIDAE Kjellesvig-Waering, 1986
 = † OPSIEOBUTHIDAE Kjellesvig-Waering, 1986
 = † PHOXISCORPIONIDAE Kjellesvig-Waering, 1986
- † **Anthracochaerilus Kjellesvig-Waering, 1986** **Carboniferous**
 23. *Anthracochaerilus palustris* Kjellesvig-Waering, 1986* C Glencartholm
- † **Centromachus Thorell & Lindström, 1885** **Carboniferous**
 24. *Centromachus euglyptus* (Peach, 1883)* C Glencartholm
- † **Opsieobuthus Kjellesvig-Waering, 1986** **Carbon. - Permian**
 25. *Opsieobuthus pottsvillensis* (Moore, 1923)* C Indiana
 26. ?*Opsieobuthus tungeri* Dunlop, Legg, Selden, Fet, Schneider & Rößler,
 2016..... P Chemnitz, Germany
- † **Phoxiscopus Kjellesvig-Waering, 1986** **Carboniferous**
 27. *Phoxiscopus peachi* Kjellesvig-Waering, 1986* C Dalmeny, Edinburgh
- † **Pulmonoscopus Jeram, 1994a** **Carboniferous**
 28. *Pulmonoscopus kirktonensis* Jeram, 1994a* C East Kirkton
- † **GALLIOSCORPIONIDAE Lourenço & Gall, 2004** **Triassic**
- † **Gallioscorpia Lourenço & Gall, 2004** **Triassic**
 29. *Gallioscorpia voltzi* Lourenço & Gall, 2004* Tr Vosges, France
- † **HELOSCORPIONIDAE Kjellesvig-Waering, 1986** **Carboniferous**
- † **Heloscopus Kjellesvig-Waering, 1986** **Carboniferous**
 30. *Heloscopus sutcliffei* (Woodward, 1907b)* C Sparth Bottoms
- † **MAZONIIDAE Petrunkevitch, 1913** **Carboniferous**
- † **Mazonia Meek & Worthen, 1868b** **Carboniferous**
 31. *Mazonia wardingleyi* (Woodward, 1907b) C Sparth Bottoms
 32. *Mazonia woodiana* Meek & Worthen, 1868b* C Mazon Creek

† MESOPHONIDAE Wills, 1910	Triassic
† <i>Mesophonus</i> Wills, 1910	Triassic
33. <i>Mesophonus perornatus</i> Wills, 1910*	Tr Keuper sandstone
i. = <i>Mesophonus opisthophthalmus</i> Wills, 1947	Tr Keuper sandstone
34. ? <i>Mesophonus pulcherrimus</i> Wills, 1910	Tr Keuper sandstone
35. ? <i>Mesophonus pulcherrimus immaculatus</i> Wills, 1947	Tr Keuper sandstone
† WILLISCORPIONIDAE Kjellesvig-Waering, 1986	Triassic
† <i>Willisicorpio</i> Kjellesvig-Waering, 1986	Triassic
36. <i>Willisicorpio bromsgroviensis</i> (Wills, 1910)*	Tr Keuper sandstone
† PALAEOSCORPOIDEA Lehmann, 1944	Devonian – Triassic
† PALAEOSCORPIONIDAE Lehmann, 1944	Devonian
† <i>Palaeoscorpio</i> Lehmann, 1944	Devonian
37. <i>Palaeoscorpius devonicus</i> Lehmann, 1944*	D Hünsruckschiefer
[NB: Kühl <i>et al.</i> (2012) simply list the genus unplaced under Protoscorpionina.]	
† SPONGIOPHONOIDEA Kjellesvig-Waering, 1986	Devonian – Triassic
† PRAERCTURIDAE Kjellesvig-Waering, 1986	Devonian
† <i>Praearcturus</i> Woodward, 1871a	Devonian
38. <i>Praearcturus gigas</i> Woodward, 1871a*	D Rowlestone
† SPONGIOPHONIDAE Kjellesvig-Waering, 1986	Triassic
† <i>Spongiophonus</i> Wills, 1947	Triassic
39. <i>Spongiophonus pustulosus</i> Wills, 1947*	Tr Keuper sandstone
† MERISTOSTERNINA Kjellesvig-Waering, 1986	Carboniferous
† CYCLOPHTHALMOIDEA Thorell & Lindström, 1885	Carboniferous
† CYCLOPHTHALMIDAE Thorell & Lindström, 1885	Carboniferous
† <i>Cyclophthalmus</i> Corda, 1835	Carboniferous
40. <i>Cyclophthalmus senior</i> Corda, 1835*	C Cholme
41. <i>Cyclophthalmus robustus</i> Kjellesvig-Waering, 1986	C Coseley
42. ? <i>Cyclophthalmus sibiricus</i> Novojilov & Størmer, 1963	C Kemerov Region
† MICROLABIIDAE Kjellesvig-Waering, 1986	Carboniferous
† <i>Microlabis</i> Corda, 1839	Carboniferous
43. <i>Microlabis sternbergii</i> Corda, 1839*	C Cholme
† PALAEOBUTHOIDEA Kjellesvig-Waering, 1986	Carboniferous
† PALAEOBUTHIDAE Kjellesvig-Waering, 1986	Carboniferous
† <i>Palaeobuthus</i> Petrunkevitch, 1913	Carboniferous
= † <i>Mazoniscorpio</i> Wills, 1960	

44. *Palaeobuthus distinctus* Petrunkevitch, 1913* C Mazon Creek
 ii. = *Mazoniscorpio mazonensis* Wills, 1960 C Mazon Creek
- † **LOBOSTERNINA Pocock, 1911** **Silurian – Carbon.**
- † **ISOBUTHOIDEA Petrunkevitch, 1913** **Carboniferous**
- † **EOBUTHIDAE Kjellesvig-Waering, 1986** **Carboniferous**
- † ***Eobuthus* Frič, 1904** **Carboniferous**
45. *Eobuthus cordai* Kjellesvig-Waering, 1986 C Kralupy Hill
 46. *Eobuthus holti* Pocock, 1911 C Sparth Bottoms
 47. *Eobuthus rakovnicensis* Frič, 1904* C Rakovník
- † **EOSCORPIIDAE Scudder, 1884** **Carboniferous**
- † ***Eoscorpius* Meek & Worthen, 1868a** **Carboniferous**
- = † *Alloscorpius* Petrunkevitch, 1949
 = † *Europhthalmus* Petrunkevitch, 1949
 = † *Lichnophthalmus* Petrunkevitch, 1949
 = † *Trigonoscorpio* Petrunkevitch, 1913
 = † *Typhloscorpius* Petrunkevitch, 1949
48. *Eoscorpius bornaensis* Sterzel, 1918 C Chemnitz–Borna
 49. *Eoscorpius carbonarius* Meek & Worthen, 1868a* C Mazon Creek
 i. = *Eoscorpius typicus* Petrunkevitch, 1913 C Mazon Creek
 ii. = *Eoscorpius granulatus* Petrunkevitch, 1913 C Mazon Creek
 iii. = *Trigonoscorpio americanus* Petrunkevitch, 1913 C Mazon Creek
 50. *Eoscorpius casei* Kjellesvig-Waering, 1986 C Nova Scotia
 51. *Eoscorpius distinctus* (Petrunkevitch, 1949) C Coseley
 52. *Eoscorpius mucronatus* Kjellesvig-Waering, 1986 C Barnsley
 53. *Eoscorpius pulcher* (Petrunkevitch, 1949) C Barnsley
 i. = *Europhthalmus longimanus* Petrunkevitch, 1949 C Barnsley
 54. *Eoscorpius sparthensis* Baldwin & Sutcliffe, 1904 C Sparth Bottoms
Eoscorpius sp. in Poschmann *et al.* (2016) C Graissessac, France
- † ***Eskioscorpio* Kjellesvig-Waering, 1986** **Carboniferous**
55. *Eskioscorpio parvus* Kjellesvig-Waering, 1986* C Glencartholm
- † ***Trachyscorpio* Kjellesvig-Waering, 1986** **Carboniferous**
56. *Trachyscorpio squarrosus* Kjellesvig-Waering, 1986* C Fouldon
- † **ISOBUTHIDAE Petrunkevitch, 1913** **Carbon. – Triassic**
- † ***Boreoscorpio* Kjellesvig-Waering, 1986** **Carboniferous**
57. *Boreoscorpio copelandi* Kjellesvig-Waering, 1986* C Nova Scotia
- † ***Bromsgrovioscorpio* Kjellesvig-Waering, 1986** **Triassic**
58. *Bromsgrovioscorpio willsi* Kjellesvig-Waering, 1986* Tr Keuper sandstone
- † ***Feistmantelia* Frič, 1904** **Carboniferous**
59. *Feistmantelia ornata* Frič, 1904* C Studnoves

† <i>Isobuthus</i> Frič, 1904	Carboniferous
60. <i>Isobuthus kralupensis</i> (Thorell & Lindström, 1885)*	C Kralup
61. ? <i>Isobuthus nyranensis</i> Frič, 1904	C Nýřany
† KRONOSCORPIONIDAE Kjellesvig-Waering, 1986	Carboniferous
† <i>Kronoscorpio</i> Kjellesvig-Waering, 1986	Carboniferous
62. <i>Kronoscorpio danielsi</i> (Petrunkevitch, 1913)*	C Mazon Creek
† PAREOBUTHIDAE Wills, 1959	Carboniferous
† <i>Pareobuthus</i> Wills, 1959	Carboniferous
63. <i>Pareobuthus salopiensis</i> Wills, 1959*	C Shropshire
† PARAISOBUTHOIDEA Kjellesvig-Waering, 1986	Carboniferous
† PARAISOBUTHIDAE Kjellesvig-Waering, 1986	Carboniferous
† <i>Paraisobuthus</i> Kjellesvig-Waering, 1986	Carboniferous
64. <i>Paraisobuthus duobicarinatus</i> Kjellesvig-Waering, 1986	C Shipley
65. <i>Paraisobuthus frici</i> Kjellesvig-Waering, 1986	C Kralupy Hill
66. <i>Paraisobuthus prantli</i> Kjellesvig-Waering, 1986*	C Rakovník
67. <i>Paraisobuthus virginiae</i> Kjellesvig-Waering, 1986	C Mazon Creek
<i>Parisobuthus</i> [sic] sp. in Gutiérrez-Marco et al. (2005)	C León, Spain
† SCOLOPOSCORPIONIDAE Kjellesvig-Waering, 1986	Carboniferous
† <i>Benniescorpio</i> Wills, 1960	Carboniferous
68. <i>Benniescorpio tuberculatus</i> (Peach, 1883)*	C Dysart, Fife
† <i>Scoloposcorpio</i> Kjellesvig-Waering, 1986	Carboniferous
69. <i>Scoloposcorpio cramondensis</i> Kjellesvig-Waering, 1986*	C Cramond, Edinburgh
† TELMATOSCORPIONIDAE Kjellesvig-Waering, 1986	Carboniferous
† <i>Telmatoscorpio</i> Kjellesvig-Waering, 1986	Carboniferous
70. <i>Telmatoscorpio brevipectus</i> Kjellesvig-Waering, 1986*	C Mazon Creek
† LOBOARCHAEOCTONOIDEA Kjellesvig-Waering, 1986	Carboniferous
† LOBOARCHAEOCTONIDAE Kjellesvig-Waering, 1986	Carboniferous
† <i>Loboarchaeoctonus</i> Kjellesvig-Waering, 1986	Carboniferous
71. <i>Loboarchaeoctonus squamosus</i> Kjellesvig-Waering, 1986*	C Glencarholm
† WATERSTONIIDAE Kjellesvig-Waering, 1986	Carboniferous
† <i>Waterstonia</i> Kjellesvig-Waering, 1986	Carboniferous
72. <i>Waterstonia airdriensis</i> Kjellesvig-Waering, 1986*	C Airdrie
† PALAEOPHONOIDEA Thorell & Lindström, 1884	Silurian
† PALAEOPHONIDAE Thorell & Lindström, 1884	Silurian

- † *Palaeophonus* Thorell & Lindström, 1884 Silurian
73. *Palaeophonus nuncius* Thorell & Lindström, 1884* S Visby, Gotland
74. ?*Palaeophonus lightbodyi* Kjellesvig-Waering, 1954 [claw only !] S Ludford Lane
- ORTHOSTERNINA Pocock, 1911** **Carbon. – Recent**
- Orthosternina incertae sedis*
- † *Corniops* Jeram, 1994b **Carboniferous**
75. *Corniops mapesii* Jeram, 1994b* C Lone Star Lake
- SCORPIONIOIDEA Latreille, 1802** **Carbon. – Recent**
- † **PALAEOPISTHACANTHIDAE** Kjellesvig-Waering, 1986 **Carboniferous**
- † *Cryptoscorpium* Jeram, 1994b **Carboniferous**
76. *Cryptoscorpium americanus* Jeram, 1994b* C Lone Star Lake
- † *Palaeopisthacanthus* Petrunkevitch, 1913 **Carboniferous**
77. *Palaeopisthacanthus schucherti* Petrunkevitch, 1913* C Mazon Creek
78. *Palaeopisthacanthus vogelandurdeni* Jeram, 1994b C Lone Star Lake
- family uncertain**
- † *Compsoscorpium* Petrunkevitch 1949 **Carboniferous**
- = † *Allobuthiscorpium* Kjellesvig-Waering, 1986
- = † *Coseleyscorpium* Kjellesvig-Waering, 1986
- = † *Leioscorpium* Kjellesvig-Waering, 1986
- = † *Lichnoscorpium* Petrunkevitch, 1949
- = † *Pseudobuthiscorpium* Kjellesvig-Waering, 1986
- = † *Typhlopisthacanthus* Petrunkevitch, 1949
79. *Compsoscorpium buthiformis* (Pocock, 1911)* C Coal Measures
- i. = *Typhlopisthacanthus anglicus* Petrunkevitch, 1949 ... C Coseley
- ii. = *Lichnoscorpium minutus* Petrunkevitch, 1949 C Coseley
- iii. = *Compsoscorpium elegans* Petrunkevitch 1949 C Coseley
- iv. = *Compsoscorpium elongatus* Petrunkevitch, 1949 C Coseley
- v. = *Buthiscorpium major* Wills, 1960 C Kilburn Coal
- vi. = *Leioscorpium pseudobuthiformis* Kjellesvig-Waering,
1986 C Coseley
- vii. = *Pseudobuthiscorpium labiosus* Kjellesvig-Waering,
1986 C Coseley
- viii. = *Coseleyscorpium lanceolatus* Kjellesvig-Waering, 1986 C Coseley
- ix. = *Allobuthus macrostethus* Kjellesvig-Waering, 1986 C Coseley
- Compsoscorpium* sp. in Poschmann et al. (2016) C Graissessac, France
- PSEUDOCHACTIDAE Gromov, 1998** **Recent**
- no fossil record

BUTHOIDEA C. L. Koch, 1837	Triassic – Recent
† ARCHAEOBUTHIDAE Lourenço, 2001	Cretaceous
† <i>Archaeobuthus</i> Lourenço, 2001	Cretaceous
80. <i>Archaeobuthus estephani</i> Lourenço, 2001*	K Lebanese amber
† PALAEOBURMESEBUTHIDAE Lourenço, 2015a	Cretaceous
† <i>Betaburmesebuthus</i> Lourenço & Beigel, 2015a	Cretaceous
81. <i>Betaburmesebuthus bellus</i> Lourenço, 2016a	K Burmese amber
82. <i>Betaburmesebuthus bidentatus</i> Lourenço, 2015c	K Burmese amber
83. <i>Betaburmesebuthus fleissneri</i> Lourenço in Lourenço & Velten, 2016	K Burmese amber
84. <i>Betaburmesebuthus kobberti</i> Lourenço & Beigel, 2015a*	K Burmese amber
85. <i>Betaburmesebuthus muelleri</i> Lourenço, 2015c	K Burmese amber
† <i>Palaeoburmesebuthus</i> Lourenço, 2002	Cretaceous
86. <i>Palaeoburmesebuthus grimaldii</i> Lourenço, 2002*	K Burmese amber
87. <i>Palaeoburmesebuthus ohlhoffi</i> Lourenço, 2015b	K Burmese amber
† CHAERIOBUTHIDAE Lourenço & Beigel, 2011	Cretaceous
† <i>Chaerilobuthus</i> Lourenço & Beigel, 2011	Cretaceous
88. <i>Chaerilobuthus birmanicus</i> Lourenço, 2015b	K Burmese amber
89. <i>Chaerilobuthus bruckschi</i> Lourenço, 2015b	K Burmese amber
90. <i>Chaerilobuthus complexus</i> Lourenço & Beigel, 2011*	K Burmese amber
91. <i>Chaerilobuthus enigmaticus</i> Lourenço, 2015d	K Burmese amber
92. <i>Chaerilobuthus gigantosternum</i> Lourenço, 2016b	K Burmese amber
93. <i>Chaerilobuthus longiaculeus</i> Lourenço, 2013b	K Burmese amber
94. <i>Chaerilobuthus schwarzi</i> Lourenço in Lourenço & Velten, 2015	K Burmese amber
95. <i>Chaerilobuthus serratus</i> Lourenço, 2016b	K Burmese amber
† PALAEOTRILINEATIDAE Lourenço, 2012b	Cretaceous
† <i>Palaeotrilineatus</i> Lourenço, 2012b	Cretaceous
96. <i>Palaeotrilineatus ellenbergeri</i> Lourenço, 2012b*	K Burmese amber
† SUCINLOURENCOIDAE Rossi, 2015	Cretaceous
† <i>Sucinlourencous</i> Rossi, 2015	Cretaceous
97. <i>Sucinlourencous adrianae</i> Rossi, 2015*	K Burmese amber
† PROTOBUTHIDAE Lourenço & Gall, 2004	Triassic
† <i>Protobuthus</i> Lourenço & Gall, 2004	Triassic
98. <i>Protobuthus elegans</i> Lourenço & Gall, 2004*	Tr Vosges
BUTHIDAE C. L. Koch, 1837	Palaeogene – Recent
= ANDROCTONIDAE C. L. Koch, 1837	

= MICROCHARMIDAE Lourenço, 1996a

Centruroides Marx, 1890a	Neogene – Recent
99. <i>Centruroides nitidus</i> (Thorell, 1876a) [Recent]	Ne Dominican amber
i. = <i>Centruroides beynai</i> Schawaller, 1979a	Ne Dominican amber
Microcharmum Lourenço, 1995	Quaternary – Recent
100. <i>Microcharmum henderickxi</i> (Lourenço, 2009a)	Qt Madagascar copal
Microtityus Kjellesvig-Waering, 1966c	Neogene – Recent
101. <i>Microtityus ambarensis</i> (Schawaller, 1982a)	Ne Dominican amber
† Palaeoakentrobuthus Lourenço & Weitschat, 2000	Palaeogene
102. <i>Palaeoakentrobuthus knodeli</i> Lourenço & Weitschat, 2000*	Pa Baltic amber
† Palaeoananteris Lourenço & Weitschat, 2001	Palaeogene
103. <i>Palaeoananteris ribnitiodamgartensis</i> Lourenço & Weitschat, 2001*	Pa Baltic amber
104. <i>Palaeoananteris ukrainensis</i> Lourenço & Weitschat, 2009	Pa Rovno amber
105. <i>Palaeoananteris wunderlichi</i> Lourenço, 2004	Pa Baltic amber
† Palaeoisometrus Lourenço & Weitschat, 2005a	Palaeogene
106. <i>Palaeoisometrus elegans</i> Lourenço & Weitschat, 2005a*	Pa Baltic amber
† Palaeogrosphus Lourenço, 2000a	Quaternary
107. <i>Palaeogrosphus copalensis</i> (Lourenço, 1996b)	Qt Copal
108. <i>Palaeogrosphus jacquesi</i> Lourenço & Henderickx, 2002	Qt Copal
† Palaeolychas Lourenço & Weitschat, 1996	Palaeogene
109. <i>Palaeolychas balticus</i> Lourenço & Weitschat, 1996*	Pa Baltic amber
110. <i>Palaeolychas weitschati</i> Lourenço, 2012a	Pa Baltic amber
† Palaeoprotobuthus Lourenço & Weitschat, 2000	Palaeogene
111. <i>Palaeoprotobuthus pusillus</i> Lourenço & Weitschat, 2000*	Pa Baltic amber
† Palaeospinobuthus Lourenço, Henderickx & Weitschat, 2005	Palaeogene
112. <i>Palaeospinobuthus cenozoicus</i> Lourenço, Henderickx &	
Weitschat, 2005*	Pa Baltic amber
† Palaeotityobuthus Lourenço & Weitschat, 2000	Palaeogene
113. <i>Palaeotityobuthus longiaculeus</i> Lourenço & Weitschat, 2000*	Pa Baltic amber
Tityus C. L. Koch, 1836	?Palaeogene – Recent
114. <i>Tityus apozonalli</i> Riquelme <i>et al.</i> , 2015	Ne Chiapas amber
115. <i>Tityus azari</i> Lourenço, 2013a	Ne Dominican amber
116. ' <i>Tityus</i> ' <i>eogenus</i> Menge, 1869 [presumably misplaced]	Pa Baltic amber
117. <i>Tityus geratus</i> Santiago-Blay & Poinar, 1988	Ne Dominican amber
118. <i>Tityus (Brazilotityus) hartkorni</i> Lourenço, 2009b	Ne Dominican amber
119. <i>Tityus (Brazilotityus) knodeli</i> Lourenço, 2014	Ne Chiapas amber
† Uintascorpio Perry, 1995	Palaeogene
120. <i>Uintascorpio halandrasorum</i> Perry, 1995*	Pa Green River
BUTHIDAE incertae sedis	
121. ' <i>Scorpio</i> ' <i>schweiggeri</i> Holl, 1829	Qt Copal [not amber!]

- BOTHRIURIDAE** Simon, 1880 **Recent**
 = TELEGONIDAE Peters, 1861 [based on a generic homonym]
 = ACANTHOCHIROIDAE Karsch, 1880*b*
 no fossil record
- CHACTOIDEA** Pocock, 1893 **Cretaceous – Recent**
 † **PALAEOEUSCORPIIDAE** Lourenço, 2003 **Cretaceous**
 † *Archaeoscorpions* Lourenço, 2015*a* **Cretaceous**
 122. *Archaeoscorpions cretacicus* Lourenço, 2015*a** K Burmese amber
 † *Burmesescorpions* Lourenço, 2016 **Cretaceous**
 123. *Burmesescorpions groehni* Lourenço, 2016*b** K Burmese amber
 † *Palaeoeuscorpions* Lourenço, 2003 **Cretaceous**
 124. *Palaeoeuscorpions gallicus* Lourenço, 2003* K French amber
- CHACTIDAE** Pocock, 1893 **Cretaceous – Recent**
 = BROTEIDAE Simon, 1879*a* [supressed for lack of useage]
 † *Araripescorpions* Campos, 1986 **Cretaceous**
 125. *Araripescorpions ligabuei* Campos, 1986* K Crato Formation
Chactas Gervais, 1844 **Subrecent – Recent**
 126. *Chactas pleistocenicus* Lourenço & Weitschat, 2005*b* Qt Colombian copal
- AKRAVIDAE** Levy, 2007 **Recent**
 no fossil record
- CHAERILIDAE** Pocock, 1893 **Cretaceous – Recent**
 † *Electrochaerilus* Santiago-Blay *et al.*, 2004 **Cretaceous**
 127. *Electrochaerilus buckleyi* Santiago-Blay *et al.*, 2004 K Burmese amber
- DIPLOCENTRIDAE** Karsch, 1880*b* **Recent**
 no fossil record
- EUSCORPIIDAE** Laurie, 1896 **?Paleogene – Recent**
 tentative familial assignment
 † *Eoeuscorpions* Kühl & Lourenco, 2017 **?Paleogene – Recent**
 128. *Eoeuscorpions ceratoi* Kühl & Lourenco, 2017* Pa Pesciara, Italy
- HETEROSCORPIONIDAE** Kraepelin, 1905 **Recent**
 no fossil record
- HEMISCORPIIDAE** Pocock, 1893 **Cretaceous – Recent**
 = ISCHNURIDAE Simon, 1879*a*
 = LIOCHELIDAE Fet & Bechly, 2001
 = † PROTOISCHNURIDAE Carvalho & Lourenço, 2001

- † *Protoischnurus* Carvalho & Lourenço, 2001 Cretaceous
 129. *Protoischnurus axelrodorum* Carvalho & Lourenço, 2001* K Crato Formation
- IURIDAE Thorell, 1876b** Recent
 no fossil record
- SCORPIONIDAE Latreille, 1802** Neogene – Recent
 = PANDINOIDAE Thorell, 1876b
 = HETEROMETRIDAE Simon, 1879a
- † *Mioscorpio* Kjellesvig-Waering, 1986 Neogene
 130. *Mioscorpio zeuneri* (Hadži, 1931)* Ne Swabian Alps
- † *Sinoscorpium* Hong, 1983a Neogene
 131. *Sinoscorpium shandongensis* Hong, 1983a* Ne Shandong, China
- SUPERSTITIONIIDAE Stahnke, 1940** Recent
 no fossil record
- TROGLOTAYOSICIDAE Lourenço, 1998** Recent
 no fossil record
- VAEJOVIDAE Thorell, 1876b** Recent
 no fossil record
- SCORPIONES *incertae sedis*
Scorpiones incertae sedis in Dunlop & Selden (2013) S Treacastle, Wales
- † *Brontoscorpio* Kjellesvig-Waering, 1972 Devonian
 132. *Brontoscorpio anglicus* Kjellesvig-Waering, 1972* D England
- † *Eramoscorpium* Waddington, Rudkin & Dunlop, 2015 Silurian
 133. *Eramoscorpium brucensis* Waddington, Rudkin & Dunlop, 2015* S Ontario, Canada
- † *Gondwanascorpio* Gess, 2013 Devonian
 134. *Gondwanascorpio emzantsiensis* Gess, 2013* D Grahamstown
- † *Gymnoscorpium* Jeram, 1994b Carboniferous
 135. *Gymnoscorpium mutillidigitatus* Jeram, 1994b* C northern England
- † *Hubeiscorpium* Walossek, Li & Brauckmann, 1990 Devonian
 136. *Hubeiscorpium gracilitarsis* Walossek, Li & Brauckmann, 1990* D Hubei, China
- † *Liassoscorpionides* Bode, 1951 Jurassic
 137. *Liassoscorpionides schmidti* Bode, 1951* J Hondelage, Germany
- † *Palaeomachus* Pocock, 1911 Carboniferous
 138. *Palaeomachus anglicus* (Woodward, 1876)* C Mansfield
- † *Permomatveevia* Dammann, 2017 Permian
 139. *Permomatveevia perneri* Dammann, 2017* P Matvévo, Urals
- † *Titanoscorpium* Kjellesvig-Waering, 1986 Carboniferous

140. *Titanoscorpio douglassi* Kjellesvig-Waering, 1986 C Mazon Creek
 † ***Wattisonia* Wills, 1960** **Carboniferous**
 141. *Wattisonia coseleyensis* Wills, 1960 C Coseley

MISIDENTIFICATIONS

1. ?*Waterstonia brachistodactyla* Kjellesvig-Waering, 1986 [plant fragment?] C Beith, Ayrshire
2. ?*Mesophonus maculatus* (Brauer, Redtenbacher & Ganglbauer, 1889)
 [?insect: cockroach] J Siberia
3. *Tiphoscorpio hueberi* Kjellesvig-Waering, 1986 [myriapod: *Eoarthropleura*] D New York

2,332 Recent species

OPILIONES

41 currently valid species of fossil harvestman

OPILIONES Sundevall, 1833 Devonian – Recent

CYPHOPHTHALMI Simon, 1879a (suborder) Cretaceous – Recent

NEOGOVEIDAE Shear, 1980 Recent

no fossil record

OGOVEIDAE Shear, 1980 Recent

no fossil record

PETTALIDAE Shear, 1980 Recent

no fossil record

SIRONIDAE Simon, 1879a Palaeogene – Recent

Siro Latreille, 1796 Palaeogene – Recent

1. *Siro balticus* Dunlop & Mitov, 2011 Pa Baltic amber
2. *Siro platypedibus* Dunlop & Giribet, 2003 Pa Bitterfeld amber

STYLOCELLIDAE Hansen & Sørensen, 1904 Cretaceous – Recent

† **Palaeosiro Poinar, 2008** Cretaceous – Recent

3. *Palaeosiro burmanicum* Poinar, 2008 K Burmese amber

NB: Originally described as a sironid, but interpreted as a stylocellid by Giribet *et al.* (2012)

TROGLOSIRONIDAE Shear, 1993 Recent

no fossil record

TETROPHTHALMI Garwood, Sharma, Dunlop & Giribet, 2014

(suborder) Devonian – Carbon.

† ***Eophalangium* Dunlop, Anderson, Kerp & Hass, 2004** Devonian

4. *Eophalangium sheari* Dunlop, Anderson, Kerp & Hass, 2004* D Rhynie chert

† ***Hastocularis* Garwood, Sharma, Dunlop & Giribet, 2014** Carboniferous

5. *Hastocularis argus* Garwood, Sharma, Dunlop & Giribet, 2014* C Montceau-les-Mines

PHALANGIDA Bristowe, 1949

Suborder uncertain

ARCHAEOMETIDAE Pocock	Carboniferous
† Archaeometa Pocock, 1911	Carboniferous
6. <i>Archaeometa nephilina</i> Pocock, 1911*	C Coseley
NB: Originally misplaced in Araneae, transferred to Opiliones by Selden <i>et al.</i> (2016)	
EUPNOI Hansen & Sørensen, 1904 (suborder)	Devonian – Recent
plesion taxa	
† Brigantibunum Dunlop & Anderson, 2005	Carboniferous
7. <i>Brigantibunum listoni</i> Dunlop & Anderson, 2005*	C East Kirkton
† Kustarachne Scudder, 1890b	Carboniferous
8. <i>Kustarachne tenuipes</i> Scudder, 1890b*	C Mazon Creek
i. = <i>Kustarachne exstincta</i> Melander, 1903	C Mazon Creek
ii. = <i>Kustarachne conica</i> Petrunkevitch, 1913	C Mazon Creek
† Macroglyion Garwood <i>et al.</i>, 2011	Carboniferous
9. <i>Macroglyion cronus</i> Garwood <i>et al.</i> 2011*	C Montceau-les-Mines
CADDOIDEA Banks, 1893	Palaeogene – Recent
CADDIDAE Banks, 1893	Palaeogene – Recent
Caddo Banks, 1892a	Palaeogene – Recent
10. <i>Caddo dentipalpus</i> (C. L. Koch & Berendt, 1854)	Pa Baltic / Bitter. amber
PHALANGIOIDEA Latreille, 1802	Palaeogene – Recent
family uncertain	
† Petrunkevitchiana Mello-Leitão, 1937 [genus <i>incertae sedis</i>]	Palaeogene
11. <i>Petrunkevitchiana oculata</i> (Petrunkevitch, 1922)*	Pa Florissant
MONOScutIDAE Forster, 1948	Recent
no fossil record	
NEOPILIONIDAE Lawrence, 1931	Recent
no fossil record	
PHALANGIIDAE Latreille, 1802	Palaeogene – Recent
Amilenus Martens, 1969	Palaeogene – Recent
12. <i>Amilenus deltshevi</i> Dunlop & Mitov, 2009	Pa Bitterfeld amber
Dicranopalpus Doleschall, 1852	Palaeogene – Recent
13. <i>Dicranopalpus ramiger</i> (C. L. Koch & Berendt, 1854)	Pa Baltic / Bitter. amber
i. = <i>Opilio corniger</i> Menge, 1854	Pa Baltic amber
ii. = <i>Dicranopalpus palmnickensis</i> Roewer, 1939	Pa Baltic amber
† Lacinius Thorell, 1876	Palaeogene – Recent
14. <i>Lacinius bizleyi</i> Mitov, Dunlop & Penney, 2015	Pa Baltic / Bitter. Amber
NB: Originally assigned to the extant species <i>L. erinaceus</i> Staręga, 1966	

- † **Stephanobunus** Dunlop & Mammitzsch, 2010 **Palaeogene**
 15. *Stephanobunus mitovi* Dunlop & Mammitzsch, 2010* Pa Baltic amber
- ?Phalangiidae**
16. *Opilio ovalis* C. L. Koch & Berendt, 1854 Pa Baltic amber
 [probably misplaced at genus level]
- SCLEROSOMATIDAE** Simon, 1879a **Jurassic – Recent**
- † **Amauropilio** Mello-Leitão, 1937 **Palaeogene**
 17. *Amauropilio atavus* (Cockerell, 1907) Pa Florissant
 18. *Amauropilio laceoi* (Petrunkevitch, 1922) Pa Florissant
- Leiobunum** C. L. Koch, 1839a **Jurassic – Recent**
 19. *Leiobunum longipes* Menge in Koch & Berendt, 1854 Pa Baltic/Bitter. amber
 i. = *Leiobunum saparum* Menge in Koch & Berendt, 1854
 [?lapsus] Pa Baltic amber
 ii. = *Leiobunum inclusum* Roewer, 1939 Pa Baltic amber
- † **Mesobunus** Huang, Selden & Dunlop, 2009 **Jurassic**
 20. *Mesobunus dunlopi* Giribet, Tourhino, Shih & Ren, 2012 J Daohugou
 21. *Mesobunus martensi* Huang, Selden & Dunlop, 2009* J Daohugou
- Family uncertain
- † **Daohugopilio** Huang, Selden & Dunlop, 2009 **Jurassic**
 22. *Daohugopilio sheari* Huang, Selden & Dunlop, 2009* J Daohugou
- DYSPNOI** Hansen & Sørensen, 1904 (suborder) **Carbon. – Recent**
 family uncertain
- † **Ameticos** Garwood *et al.*, 2011 **Carboniferous**
 23. *Ameticos scolos* Garwood *et al.* 2011* C Montceau-les-Mines
- † **Echinopustulatus** Dunlop, 2004 **Carboniferous**
 24. *Echinopustulatus samuelnelsoni* Dunlop, 2004* C Missouri
- ACROPSOPILIONOIDEA** Roewer, 1924 **Recent**
ACROPSOPILIONIDAE Roewer, 1924 **Recent**
 no fossil record
- superfamily uncertain
- † **HALITHERSIDAE** Dunlop, Selden & Giribet, 2016 **Cretaceous**
 † **Halitherses** Giribet & Dunlop, 2005 **Cretaceous**
 25. *Halitherses grimaldii* Giribet & Dunlop, 2005* K Burmese amber
- ISCHYROPSALIDOIDEA** Simon, 1879a **Palaeogene – Recent**
 Tentative assignment, family uncertain

† <i>Piankhi</i> Dunlop, Bartel & Mitov, 2012	Palaeogene
26. <i>Piankhi steineri</i> Dunlop, Bartel & Mitov, 2012*	Pa Baltic amber
CERATOLASMATIDAE Shear, 1986	Recent
no fossil record	
ISCHYROPSALIDIDAE Simon, 1879a	Recent
no fossil record	
SABACONIDAE Dresco, 1970	Palaeogene – Recent
Sabacon Simon, 1879a	Palaeogene – Recent
27. <i>Sabacon claviger</i> (Menge in Koch & Berendt 1854)	Pa Baltic amber
i. = <i>Sabacon bachofeni</i> Roewer, 1939	Pa Baltic amber
TROGULOIDEA Sundevall, 1833	Cretaceous – Recent
DICRANOLASMATIDAE Simon, 1879a	Recent
no fossil record	
† EOTROGULIDAE Petrunkevitch, 1955a	Carboniferous
† <i>Eotrogulus</i> Thevenin, 1901	Carboniferous
28. <i>Eotrogulus fayoli</i> Thevenin, 1901*	C Commentry
NEMASTOMATIDAE Simon, 1879a	Palaeogene – Recent
<i>Histicostoma</i> Kratochvíl, 1958	Palaeogene – Recent
29. ? <i>Histicostoma tuberculatum</i> (C. L. Koch & Berendt, 1854)	Pa Baltic/Bitter. amber
<i>Mitostoma</i> Roewer, 1951	Palaeogene – Recent
30. ? <i>Mitostoma denticulatum</i> (C. L. Koch & Berendt, 1854)	Pa Baltic amber
i. = <i>Nemastoma succineum</i> Roewer, 1939	Pa Baltic amber
31. ? <i>Mitostoma gruberi</i> Dunlop & Mitov, 2009	Pa Bitterfeld amber
<i>Nemastoma</i> C. L. Koch, 1836	Palaeogene – Recent
32. ? <i>Nemastoma incertum</i> C. L. Koch & Berendt, 1854	Pa Baltic amber
† NEMASTOMOIDIDAE Petrunkevitch, 1955a	Carboniferous
† <i>Nemastomoides</i> Thevenin, 1901	Carboniferous
= † <i>Protopilio</i> Petrunkevitch, 1913	
33. <i>Nemastomoides elaveris</i> Thevenin, 1901*	C Commentry
34. <i>Nemastomoides longipes</i> (Petrunkevitch, 1913)	C Mazon Creek
NIPPONOSALIDIDAE Martens, 1976	Recent
no fossil record	
TROGULIDAE Sundevall, 1833	Palaeogene – Recent
<i>Trogulus</i> Latreille, 1802	Palaeogene – Recent

35. *Trogulus longipes* Haupt, 1956 Pa Geiseltal
- LANIATORES Thorell, 1876c (suborder) Cretaceous – Recent**
family uncertain
- Philacarus* Sørensen, 1932 Neogene – Recent
36. *Philacarus hispaniolensis* Cokendolpher & Poinar, 1992 Ne Dominican amber
- INSIDIATORES Loman, 1900 (infraorder) Palaeogene – Recent**
- TRAVUNIOIDEA Absolon & Kratochvíl, 1932 Palaeogene – Recent**
- CLADONYCHIDAE Hadži, 1935 Palaeogene – Recent**
- † *Proholoscotolemon* Ubick & Dunlop, 2005 Palaeogene
37. *Proholoscotolemon nemastomoides* (C. L. Koch & Berendt, 1854)* Pa Baltic amber
- ?*Proholoscotolemon* sp. in Ubick & Dunlop (2005) Pa Baltic amber
- PENTANYCHIDAE Briggs, 1971 Recent**
no fossil record
- TRAVUNIIDAE Absolon & Kratochvíl, 1932 Recent**
no fossil record
- TRIAENONYCHOIDEA Sørensen, 1886 Recent**
- SYNTHETONYCHIIDAE Forster, 1954 Recent**
no fossil record
- TRIAENONYCHIDAE Sørensen, 1886 Recent**
no fossil record
- GRASSATORES Kury, 2002 (infraorder) Cretaceous – Recent**
- SAMOIDEA Sørensen, 1886 Neogene – Recent**
- BIANTIDAE Thorell, 1889 Recent**
no fossil record
- ESCADABIIDAE Kury & Pérez González in Kury, 2003 Recent**
no fossil record
- KIMULIDAE Pérez González, Kury & Alonso-Zarazaga in Pérez González & Kury, 2007 Neogene – Recent**
- Kimula* Goodnight & Goodnight, 1942 Neogene – Recent
- Kimula* sp. in Cokendolpher & Poinar (1992) Ne Dominican amber
- PODOCTIDAE Roewer, 1912 Recent**
no fossil record

SAMOIDEAE Sørensen, 1886	Neogene – Recent
<i>Hummelinckiolus Šilhavý, 1979</i>	Neogene – Recent
38. <i>Hummelinckiolus silhavyi</i> Cokendolpher & Poinar, 1998	Ne Dominican amber
Pellobunus Banks, 1905	Neogene – Recent
39. <i>Pellobunus proavus</i> Cokendolpher, 1987	Ne Dominican amber
STYGNOMMATIDAE Roewer, 1923	Recent
no fossil record	
ASSAMIOIDEA Sørensen, 1884	Cretaceous – Recent
ASSAMIIDAE Sørensen, 1884	Recent
no fossil record	
EPEDANIDAE Sørensen, 1886	Cretaceous – Recent
† <i>Petrobunoides</i> Selden, Dunlop, Giribet, Zhang & Ren, 2016	Cretaceous
40. <i>Petrobunoides sharmai</i> Selden, Dunlop, Giribet, Zhang & Ren, 2016*....	K Burmese amber
PETROBUNIDAE Sharma & Giribet, 2011	Recent
no fossil record	
PYRAMIDOPIIDAE Sharma, Prieto & Giribet, 2011	Recent
no fossil record	
STYGNOPSIDAE Sørensen, 1932	Recent
no fossil record	
TITHAEIDAE Sharma & Giribet, 2011	Recent
no fossil record	
GONYLEPTOIDEA Sundevall, 1833	Recent
AGORISTENIDAE Šilhavý, 1973	Recent
no fossil record	
COSMETIDAE C. L. Koch, 1839a	Recent
no fossil record	
CRANIDAE Roewer, 1913	Recent
no fossil record	
GONYLEPTIDAE Sundevall, 1833	Recent
no fossil record	
MANAOSBIIDAE Roewer, 1943	Recent
no fossil record	

STYGNIDAE Simon, 1879b **Recent**

no fossil record

PHALANGODOIDEA Simon, 1879a **Recent**

ONCOPODIDAE Thorell, 1876c **Recent**

no fossil record

PHALANGODIDAE Simon, 1879a **Recent**

no fossil record

ZALMOXOIDEA Sørensen, 1886 **Recent**

FISSIPHALLIIDAE Martens, 1988 **Recent**

no fossil record

GUASINIIDAE González-Sponga, 1997 **Recent**

no fossil record

ICALEPTIDAE Kury & Pérez González, 2002 **Recent**

no fossil record

ZALMOXIDAE Sørensen, 1886 **Recent**

no fossil record

OPILIONES *incertae sedis*

unnamed specimen *in* Jell & Duncan (1986) K Koonwarra

† ***Arachnometa* Petrunkevitch, 1949** **Carboniferous**

41. *Arachnometa tuberculata* Petrunkevitch, 1949* C Coseley

NB: Originally misplaced in Aranae, transferred to Opiliones by Selden *et al.* (2016)

NOMINA DUBIA

1. *Cheiromachus coriaceus* Menge *in* Koch & Berendt, 1854 Pa Baltic amber

2. *Phalangium succineum* Presl, 1822 Pa Baltic amber

MISIDENTIFICATIONS

1. *Hasseltides primigenius* Weyenbergh, 1869 [crinoid] J Solnhofen

2. *Phalangites multipes* Münster *in* Roth, 1851 [crustacean] J Solnhofen

3. *Phalangites priscus* Münster, 1839 [crustacean] J Solnhofen

4. *Rhabdotarchooides simoni* Haupt, 1957 [plant fragment] P Rotliegend

6,491 Recent species according to Kury (2011)

PHALANGIOTARBIDA

31 currently valid species of fossil phalangiotarbid

- † **PHALANGIOTARBIDA Haase, 1890** Devonian – Permian
 = † ARCHITARBIDA Petrunkevitch, 1945a
- † **DEVONOTARBIDAE Poschmann & Dunlop, 2012** Devonian
- † ***Devonotarbus* Poschmann, Anderson & Dunlop, 2005** Devonian
1. *Devonotarbus hombachensis* Poschmann, Anderson & Dunlop, 2005* D Germany
- † **ANTHRACOTARBIDAE Kjellesvig-Waering, 1969** Carboniferous
- † ***Anthracotarbus* Kjellesvig-Waering, 1969** Carboniferous
2. *Anthracotarbus hintoni* Kjellesvig-Waering, 1969* C Oklahoma
- † **ARCHITARBIDAE Karsch, 1882** Carboniferous
 = † PHALANGIOTARBIDAE Haase, 1890
- † ***Architarbus* Scudder, 1868** Carboniferous
3. *Architarbus hoffmanni* Guthörl, 1934 C Saar basin
- i. = *Opiliotarbus kliveri* Waterlot, 1935 C Saar basin
- ii. = *Goniotarbus sarana* Guthörl, 1965 C Saar basin
4. *Architarbus minor* Petrunkevitch, 1913 C Mazon Creek
5. *Architarbus rotundatus* Scudder, 1868* C Mazon Creek
- † ***Bornatarbus* Rößler & Schneider, 1997** Carboniferous
6. *Bornatarbus mayasii* (Haupt in Nindel, 1955)* C Germany / UK
- † ***Discotarbus* Petrunkevitch, 1913** Carboniferous
7. *Discotarbus deplanatus* Petrunkevitch, 1913* C Mazon Creek
- † ***Geratarbus* Scudder, 1890b** Carboniferous
8. *Geratarbus lacoeyi* Scudder, 1890b* C Mazon Creek
9. *Geratarbus bohemicus* Petrunkevitch, 1953 C Nýřany
- † ***Goniotarbus* Petrunkevitch, 1949** Carboniferous
10. *Goniotarbus angulatus* (Pocock, 1911) C Coseley
11. *Goniotarbus tuberculatus* (Pocock, 1911)* C Coseley
- i. = *Goniotarbus tuberculatus* Petrunkevitch, 1949 C Coseley
- † ***Hadrachne* Melander, 1903** Carboniferous
12. *Hadrachne horribilis* Melander, 1903* C Mazon Creek
- † ***Leptotarbus* Petrunkevitch, 1945a** Carboniferous
13. *Leptotarbus torpedo* (Pocock, 1911)* C Coseley
- † ***Mesotarbus* Petrunkevitch, 1949** Carboniferous
14. *Mesotarbus angustus* (Pocock, 1911) C Coseley

15. <i>Mesotarbus eggintoni</i> (Pocock, 1911)	C Coseley
16. <i>Mesotarbus hindi</i> (Pocock, 1911)	C Coseley
17. <i>Mesotarbus intermedius</i> Petrunkevitch, 1949*	C Coseley
18. <i>Mesotarbus peteri</i> Dunlop & Horrocks, 1997	C Westhoughton
† <i>Metatarbus</i> Petrunkevitch, 1913	Carboniferous
19. <i>Metatarbus triangularis</i> Petrunkevitch, 1913*	C Mazon Creek
† <i>Ootarbus</i> Petrunkevitch, 1945a	Carboniferous
20. <i>Ootarbus pulcher</i> Petrunkevitch, 1945a*	C Mazon Creek
21. <i>Ootarbus ovatus</i> Petrunkevitch, 1945a	C Mazon Creek
† <i>Orthotarbus</i> Petrunkevitch, 1945a	Carboniferous
22. <i>Orthotarbus longipes</i> Simon, 1971	C Halleschen Mulde
23. <i>Orthotarbus minutus</i> (Petrunkevitch, 1913)*	C Mazon Creek
24. <i>Orthotarbus robustus</i> Petrunkevitch, 1945a	C Mazon Creek
25. <i>Orthotarbus nyranensis</i> Petrunkevitch, 1953	C Nýřany
† <i>Paratarbus</i> Petrunkevitch, 1945a	Carboniferous
26. <i>Paratarbus carbonarius</i> Petrunkevitch, 1945a*	C Mazon Creek
† <i>Phalangiotarbus</i> Haase, 1890	Carboniferous
27. <i>Phalangiotarbus subovalis</i> (Woodward, 1872b)*	C Burnley
† <i>Pycnotarbus</i> Darber, 1990	Carboniferous
28. <i>Pycnotarbus verrucosus</i> Darber, 1990*	C Oelsnitz
† <i>Triangulotarbus</i> Patrick, 1989	Carboniferous
29. <i>Triangulotarbus terrehautensis</i> Patrick, 1989*	C Indiana
† HETEROTARBIDAE Petrunkevitch, 1913	Carboniferous
† <i>Heterotarbus</i> Petrunkevitch, 1913	Carboniferous
30. <i>Heterotarbus ovatus</i> Petrunkevitch, 1913*	C Mazon Creek
† OPILIOTARBIDAE Petrunkevitch, 1945a	Carb. – Permian
† <i>Opiliotarbus</i> Pocock, 1910	Carb. – Permian
31. <i>Opiliotarbus elongatus</i> (Scudder, 1890b)*	C – P USA / Germany

NOMINA DUBIA

1. <i>Eotarbus litoralis</i> Kuřta, 1888	C Rakovník
2. <i>Nemastomoides depressus</i> Petrunkevitch, 1913	C Mazon Creek

no Recent species

PSEUDOSCORPIONES

50 currently valid species of fossil pseudoscorpion

PSEUDOSCORPIONES De Geer, 1778	Devonian – Recent
= CHERNETES Simon, 1879a	
† DRACOCHELIDAE Schawaller, Shear & Bonamo, 1991 (plesion family)	Devonian
† <i>Dracochela</i> Schawaller, Shear & Bonamo, 1991	Devonian
1. <i>Dracochela deprehendor</i> Schawaller, Shear & Bonamo, 1991*	D Gilboa
CHELONETHI Thorell, 1882	Cretaceous – Recent
EPIOCHIERATA Harvey, 1992	Cretaceous – Recent
CHTHONOIDEA Daday, 1889	Cretaceous – Recent
CHTHONIIDAE Daday, 1889	Cretaceous – Recent
<i>Chthonius</i> C. L. Koch, 1843a	Palaeogene – Recent
2. <i>Chthonius (Chthonius) mengei</i> Beier, 1937	Pa Baltic amber
3. <i>Chthonius (Chthonius) pristinus</i> Schawaller, 1978	Pa Baltic amber
<i>Paraliochthonius</i> Beier, 1956	Neogene – Recent
4. <i>Paraliochthonius miomaya</i> Judson, 2016	Ne Chiapas amber
<i>Pseudochthonius</i> Balzan, 1892	Neogene – Recent
5. <i>Pseudochthonius squamosus</i> Schawaller, 1980a	Ne Dominican amber
<i>Tyrannchthonius</i> Chamberlin, 1929	Neogene – Recent
<i>Tyrannchthonius</i> sp. in Judson (2010)	Qt Madagascan copal
<i>Tyrannchthonius</i> sp. in Judson (2016)	Ne Chiapas amber
† <i>Weygoldtiella</i> Harvey et al., 2018	Cretaceous
6. <i>Weygoldtiella plausus</i> Harvey et al., 2018	K Burmese amber
LECHYTIDAE Chamberlin, 1929	Neogene – Recent
<i>Lechytia</i> Balzan, 1892	Neogene – Recent
7. <i>Lechytia tertiaria</i> Schawaller, 1980a	Ne Dominican amber
TRIDENCHTHONIIDAE Balzan, 1892	Palaeogene – Recent
= DITHIDAE Chamberlin, 1929	
† <i>Chelignathus</i> Menge, 1854	Palaeogene
8. <i>Chelignathus kochii</i> Menge in Koch & Berendt 1854*	Pa Baltic amber
FEAELLOIDEA Ellingsen, 1906	Cretaceous – Recent
FEAELLIDAE Ellingsen, 1906	Cretaceous – Recent

<i>Feaella (Tetrafeaella)</i> Beier, 1955	Palaeogene – Recent
9. <i>Feaella (Tetrafeaella) groehni</i> Henderickx in Henderickx & Boone, 2014 Pa	Baltic amber
† <i>Protofeaella</i> Henderickx in Henderickx & Boone, 2014	Cretaceous – Recent
10. <i>Protofeaella peetersae</i> Henderickx in Henderickx & Boone, 2016*	K Burmese amber
PSEUDOGARYPIDAE Chamberlin, 1923a	Palaeogene – Recent
<i>Pseudogarypus</i> Ellingsen, 1909	Palaeogene – Recent
11. <i>Pseudogarypus extensus</i> Beier, 1937	Pa Baltic amber
12. <i>Pseudogarypus hemprichii</i> (C. L. Koch & Berendt, 1854)	Pa Baltic amber
13. <i>Pseudogarypus minor</i> Beier, 1947a	Pa Baltic/Rovno amber
14. <i>Pseudogarypus pangaea</i> Henderickx in Henderickx et al., 2006.....	Pa Baltic amber
15. <i>Pseudogarypus synchrotron</i> Henderickx in Henderickx et al., 2012	Pa Baltic amber
IOCHIERATA Harvey, 1992	Cretaceous – Recent
HEMICTENATA Balzan, 1892	Cretaceous – Recent
NEOBISIOIDEA Chamberlin, 1930	Cretaceous – Recent
BOCHICIDAE Chamberlin, 1930	Recent
= VACHONIIDAE Chamberlin, 1947	
no fossil record	
GYMNOBISIIDAE Beier, 1947b	Recent
no fossil record	
HYIDAE Chamberlin, 1930	Recent
no fossil record	
IDEORONCIDAE Chamberlin, 1930	Recent
no fossil record	
NEOBISIIDAE Chamberlin, 1930	Cretaceous – Recent
= OBISIIDAE Sundevall, 1833	
<i>Microcreagris</i> Balzan, 1892	Palaeogene – Recent
16. <i>Microcreagris koellnerorum</i> Schawaller, 1978	Pa Baltic amber
<i>Neobisium</i> Chamberlin, 1930	Palaeogene – Recent
17. <i>Neobisium (Neobisium) extinctum</i> Beier, 1955	Pa Baltic amber
18. <i>Neobisium henderickxi</i> Judson, 2003	Pa Baltic amber
<i>Roncus</i> L. Koch, 1873	Palaeogene – Recent
19. <i>Roncus succineus</i> Beier, 1955	Pa Baltic amber
PARAHYIDAE Harvey, 1992	Recent
no fossil record	
SYARINIDAE Chamberlin, 1930	Recent

no fossil record

PANCTENATA Balzan, 1892 Cretaceous – Recent

GARYPOIDEA Simon, 1879a Cretaceous – Recent

GARYPIDAE Simon, 1879a Recent

= SYNSPHRONIDAE Beier, 1932a

no fossil record

GARYPINIDAE Daday, 1889 Cretaceous – Recent

Amblyolpium Simon, 1898b Cretaceous – Recent

20. *Amblyolpium burmiticum* (Cockerell, 1920) K Burmese amber

Garypinus Daday, 1888 Palaeogene – Recent

21. *Garypinus electri* Beier, 1937 Pa Baltic amber

GEOGARYPIDAE Chamberlin, 1930 Palaeogene – Recent

Geogarypus Chamberlin, 1930 Palaeogene – Recent

22. *Geogarypus gorskii* Henderickx, 2005 Pa Baltic/Rovno amber

23. *Geogarypus macrodactylus* Beier, 1937 Pa Baltic amber

24. *Geogarypus major* Beier, 1937 Pa Baltic amber

LARCIDAE Harvey, 1992 Recent

no fossil record

MENTHIDAE Chamberlin, 1930 Recent

no fossil record

OLPIIDAE Banks, 1895 Palaeogene – Recent

no fossil record

STERNOPHOROIDEA Chamberlin, 1923b Neogene – Recent

STERNOPHORIDAE Chamberlin, 1923b Neogene – Recent

Idiogaryops Hoff, 1963 Neogene – Recent

25. *Idiogaryops pumilus* (Hoff, 1963) [Recent] Ne–R Dominican amber

CHEIRIDIOIDEA Hansen, 1894 Palaeogene – Recent

CHEIRIDIIDAE Hansen, 1894 Palaeogene – Recent

Cheiridium Menge, 1855 Palaeogene – Recent

26. *Cheiridium hartmanni* (Menge in Koch & Berendt 1854) Pa Baltic amber

Cryptocheiridium Chamberlin, 1931a Neogene – Recent

27. *Cryptocheiridium (Cryptocheiridium) antiquum* Schawaller, 1981 Ne Dominican amber

† **Electrobisium Cockerell, 1917** Cretaceous

28. *Electrobisium acutum* Cockerell, 1917a* K Burmese amber

PSEUDOCHIRIDIIDAE Chamberlin, 1923b	Neogene – Recent
<i>Pseudochiridium</i> With, 1906	Neogene – Recent
29. <i>Pseudochiridium lindae</i> Judson, 2007	Ne Dominican amber
CHELIFEROIDEA Risso, 1826	Cretaceous – Recent
ATEMNIDAE Kishida, 1929	Palaeogene – Recent
Atemninae indet. in Judson (2010)	Qt Dominican amber
<i>Paratemnoides</i> Harvey, 1991	Neogene – Recent
30. <i>Paratemnoides nidificator</i> (Balzan, 1888) [Recent]	Qt–R Colombian copal
<i>Paratemnoides</i> (?) sp. in Judson (2016)	Ne Chiapas amber
† <i>Progonatemnus</i> Beier, 1955	Palaeogene
31. <i>Progonatemnus succineus</i> Beier, 1955*	Pa Baltic amber
CHELIFERIDAE Risso, 1827	Cretaceous – Recent
Cheliferidae? indet. in Judson (2009)	K Archingeay amber
Cheliferini gen. sp. indet. in Judson (2016)	Ne Chiapas amber
† <i>Dichela</i> Menge, 1854	Palaeogene
= † <i>Oligochelifer</i> Beier, 1937	
32. <i>Dichela berendtii</i> Menge in Koch & Berendt 1854*	Pa Baltic amber
33. <i>Dichela gracilis</i> (Beier, 1937)	Pa Baltic amber
34. <i>Dichela granulatus</i> (Beier, 1937)	Pa Baltic amber
35. <i>Dichela serratidentatus</i> (Beier, 1937)	Pa Baltic amber
† <i>Electrochelifer</i> Beier, 1937	Palaeogene
36. <i>Electrochelifer bachofeni</i> Beier, 1947a	Pa Baltic amber
37. <i>Electrochelifer balticus</i> Beier, 1955	Pa Baltic amber
38. “ <i>Electrochelifer</i> ” <i>groehni</i> Dashdamirmov, 2008	Pa Baltic amber
39. <i>Electrochelifer mengei</i> Beier, 1937*	Pa Baltic amber
40. <i>Electrochelifer rapulitarsatus</i> Beier, 1947a	Pa Baltic amber
† <i>Heurtaultia</i> Judson, 2009 [tentative referral to family]	Cretaceous
41. <i>Heurtaultia rossiorum</i> Judson, 2009	K Archingeay amber
† <i>Pycnochelifer</i> Beier, 1937	Palaeogene
42. <i>Pycnochelifer kleemanni</i> (C. L. Koch & Berendt, 1854)*	Pa Baltic amber
i. = <i>Obisium rathkii</i> C. L. Koch & Berendt, 1854	Pa Baltic amber
† <i>Trachychelifer</i> Hong, 1983b	Palaeogene
43. <i>Trachychelifer liaoningense</i> Hong, 1983b*	Pa Chinese amber
CHERNETIDAE Menge, 1855	Cretaceous – Recent
Chernetidae gen. et sp. indet. in Schawaller (1991)	K Canadian amber
Chernetidae gen. et sp. Indet. in Schawaller (1982b)	Ne Chiapas amber
<i>Byrsochernes</i> Beier, 1959	Neogene – Recent
= † <i>Mayachernes</i> Riquelme, Piedra-Jiménez & Córdova-Tabares,	

2014 in Riquelme *et al.* (2014)

44. <i>Byrsochnes maatiatus</i> (Riquelme, Piedra-Jiménez & Córdova-Tabares, 2014 in Riquelme <i>et al.</i> (2014))	Ne	Chiapas amber
<i>Lustrochnes</i> Beier, 1932	Neogene – Recent	
<i>Lustrochnes</i> (?) sp. 1–2 in Judson (2016)	Ne	Chiapas amber
† <i>Oligochnes</i> Beier, 1937	Palaeogene	
45. <i>Oligochnes bachofeni</i> Beier, 1937	Pa	Baltic amber
46. <i>Oligochnes wigandi</i> (Menge in Koch & Berendt 1854)	Pa	Baltic amber
<i>Pachychnes</i> Beier, 1932b	Neogene – Recent	
47. <i>Pachychnes effossus</i> Schawaller, 1980b	Ne	Dominican amber
48. <i>Pachychnes</i> aff. <i>subrobustus</i> (Balzan, 1892)	Qt–R	Colombian copal
WITHIIDAE Chamberlin, 1931b	Palaeogene – Recent	
† <i>Beierowithius</i> Mahnert, 1979	Palaeogene	
49. <i>Beierowithius sieboldtii</i> (Menge in Koch & Berendt 1854)*	Pa	Baltic amber
<i>Withius</i> Kew, 1911	Quaternary – Recent	
50. <i>Withius eucarpus</i> (Dalman, 1826)	Qt	East African opal

NOMUM DUBIUM

1. *Chelifer ehrenbergii* C. L. Koch & Berendt, 1854 Pa Baltic amber

NOMUM NUDUM

1. *Chelifer fossilis* Weyenbergh, 1874 J Solnhofen

3,454 Recent species according to Harvey (2011)

SOLIFUGAE

6 currently valid species of camel spider

- *Schneidarachne* appears to show some solifuge-like features and was tentatively assigned to the stem-lineage of this order; for convenience it is listed here alongside the camel spiders
- a family name Protosolpugidae has been proposed for *Protosolpuga*, but was not recognised in most of the subsequent literature – cf. Selden & Shear's (1996) revision

stem-lineage?

- † *Schneidarachne* Dunlop & Rössler, 2003 Carboniferous
1. *Schneidarachne saganii* Dunlop & Rössler, 2003* C Kamienna Góra

SOLIFUGAE Sundevall, 1833 Carbon. – Recent

SOLIFUGAE INCERTAE SEDIS

- † *Protosolpuga* Petrunkevitch, 1913 Carboniferous
2. *Protosolpuga carbonaria* Petrunkevitch, 1913* C Mazon Creek
- † *Cushingia* Dunlop, Bird, Brookhart & Bechly 2015 Cretaceous
3. *Cushingia ellenbergeri* Dunlop, Bird, Brookhart & Bechly 2015* K Burmese Amber

AMMOTRECHIDAE Roewer, 1934 Neogene – Recent

- † *Haplodontus* Poinar & Santiago-Blay, 1989 Neogene
4. *Haplodontus proterus* Poinar & Santiago-Blay, 1989* Ne Dominican amber

CEROMIDAE Roewer, 1933 Cretaceous – Recent

- † *Cratosolpuga* Selden *in* Selden & Shear, 1996 Cretaceous
5. *Cratosolpuga wunderlichii* Selden *in* Selden & Shear, 1996* K Crato Formation

DAESIIDAE Kraepelin, 1899 Palaeogene – Recent

- † *Palaeoblossia* Dunlop, Wunderlich & Poinar, 2004 Palaeogene
6. *Palaeoblossia groehni* Dunlop, Wunderlich & Poinar, 2004* Pa Baltic amber

EREMOBATIDAE Kraepelin, 1901 Recent

no fossil record

GALEODIDAE Sundevall, 1833 Recent

no fossil record

GYLIPPIDAE Roewer, 1933 Recent

no fossil record

HEXISOPODIDAE Pocock, 1897 **Recent**

no fossil record

KARSCHIIDAE Kraepelin, 1899 **Recent**

no fossil record

MELANOBLOSSIDAE Roewer, 1933 **Recent**

no fossil record

MUMMUCIIDAE Roewer, 1934 **Recent**

no fossil record

RHAGODIDAE Pocock, 1897 **Recent**

no fossil record

SOLPUGIDAE Leach, 1815 **Recent**

no fossil record

1,113 Recent species according to Prendini (2011)

PALPIGRADI

2 currently valid species of fossil palpigrade

PALPIGRADI Thorell, 1888 **Cretaceous – Recent**

= MICROTHELYPHONIDA Grassi & Calandruccio, 1885

family uncertain

† ***Paleokoenenia* Rowland & Sissom, 1980** **Neogene**

1. *Paleokoenenia mordax* Rowland & Sissom, 1980* Ne Onyx Marble

EUKOENENIIDAE Petrunkevitch, 1955a **Cretaceous – Recent**

† ***Electrokoenenia* Engel & Huang in Engel *et al.*, 2016** **Cretaceous**

2. *Electrokoenenia yaksha* Engel & Huang in Engel *et al.*, 2016* K Burmese amber

PROKOENENIIDAE Condé, 1996 **Recent**

no fossil record

MISIDENTIFICATIONS

1. *Sternarthron zitteli* Haase, 1890 [insect] J Solnhofen

2. *Sternarthron zitteli* var. *minor* (Oppenheim, 1887) [insect] J Solnhofen

82 Recent species according to Prendini (2011)

ACARI: PARASITIFORMES

18 currently valid species of fossil parasitiform mite

- higher systematics and sequence of taxa follows the third edition of *A Manual of Acarology* (Krantz & Walter, eds, 2009), except that their orders are listed here as suborders, and suborders as infraorders to achieve some degree of consistency with other arachnid higher taxa throughout this list

PARASITIFORMES Reuter, 1909	Cretaceous – Recent
= ANACTINOTRICHIDA author, date?	
OPILIOACARIDA Zachvatkin, 1952 (suborder)	Cretaceous – Recent
= NOTOSTIGMATA author, date?	
OPILIOACAROIDEA Vitzthum, 1931	Cretaceous – Recent
OPILIOACARIDAE Vitzthum, 1931	Cretaceous – Recent
= NEOACARIDAE Chamberlin & Mulaik, 1942	
<i>Opilioacarus</i> With, 1902	?Cretaceous – Recent
1. <i>?Opilioacarus aenigmus</i> Dunlop, Sempf & Wunderlich, 2010	Pa Baltic amber
2. <i>?Opilioacarus groehni</i> Dunlop & Bernardi, 2014	K Burmese amber
<i>Paracarus</i> Chamberlin & Mulaik, 1942	Palaeogene – Recent
3. <i>Paracarus pristinus</i> Dunlop, Wunderlich & Poinar, 2004	Pa Baltic amber
HOLOTHYRIDA Thorell, 1882 (suborder)	Recent
= TETRASTIGMATA author, date?	
HOLOTYHROIDEA Thorell, 1882	Recent
ALLOTHYRIDAE van der Hammen, 1972	Recent
no fossil record	
HOLOTHYRIDAE Thorell, 1882	Recent
no fossil record	
NEOTHYRIDAE Lehtinen, 1981	Recent
no fossil record	
IXODIDA Leach, 1815 (suborder)	Cretaceous – Recent
= METASTIGMATA author, date?	
NUTALLIELLIDAE Schulze, 1935	Recent
no fossil record	
+ DEINOCROTONIDAE Peñalver, Arillo, Anderson & Pérez-de la Fuente <i>in</i> Peñalver	

<i>et al.</i> , 2017	Cretaceous
† <i>Deinocroton</i> Peñalver, Arillo, Anderson & Pérez-de la Fuente <i>in</i> Peñalver <i>et al.</i> , 2017	Cretaceous
4. <i>Deinocroton draculi</i> Peñalver, Arillo, Anderson & Perez-de la Fuente <i>in</i> Peñalver <i>et al.</i> , 2017*	K Burmese amber
ARGASIDAE Murray, 1877	Cretaceous – Recent
Carios Latreille, 1796	Cretaceous – Recent
5. <i>Carios jerseyi</i> Klompen & Grimaldi, 2001	K New Jersey amber
Ornithodoros C. L. Koch, 1844	Neogene – Recent
6. <i>Ornithodoros antiquus</i> Poinar, 1995	Ne Dominican amber
IXODIDAE Banks, 1907	Cretaceous – Recent
NB: a putative <i>Hyalomma</i> in Baltic amber in de la Fuente (2003) is a misidentification.	
Amblyomma C. L. Koch, 1844	Cretaceous – Recent
7. <i>Amblyomma</i> near <i>argentinae</i> Neumann, 1905 [Recent] (as <i>testudinis</i>) <i>in</i> Lane & Poinar (1986).....	Ne–R Dominican amber
8. <i>Amblyomma birmittum</i> Chitima-Dobler, Araujo, Ruthensteiner, Pfeffer & Dunlop, 2017.....	K Burmese amber
9. <i>Amblyomma</i> near <i>dissimile</i> C. L. Koch, 1844 [Recent] <i>in</i> Kierens <i>et al.</i> (1986)	Ne–R Dominican amber
<i>Amblyomma</i> sp. <i>in</i> (Klompen <i>in</i> Grimaldi <i>et al.</i> 2002)	K Burmese amber
† Compluriscutata Poinar & Buckley, 2008.....	Cretaceous
10. <i>Compluriscutata vetulum</i> Poinar & Buckley, 2008*	K Burmese amber
† Cornupalpatum Poinar & Brown, 2003.....	Cretaceous
11. <i>Cornupalpatum burmanicum</i> Poinar & Brown, 2003*	K Burmese amber
Dermacentor C. L. Koch, 1844	Neogene – Recent
12. <i>Dermacentor</i> nr. <i>reticulatus</i> (Fabricius, 1794) [Recent] (<i>in</i> Kulczyński <i>in</i> Schille 1916).....	Ne–R in a Rhino's ear
Ixodes Latreille, 1795	Palaeogene – Recent
13. <i>Ixodes sigelos</i> Keirans, Clifford & Corwin, 1976 [Recent]	Qt Argentina
14. <i>Ixodes</i> (<i>Partipalpiger</i>) <i>succineus</i> Weidner, 1964	Pa Baltic amber
MESOSTIGMATA G. Canestrini, 1891 (suborder)	Palaeogene – Recent
= GAMASIDA Leach, 1815	
SEJIDA Kramer, 1885 (infraorder)	Palaeogene – Recent
= LIROASPINA author, date?	
= TRICHOPYGIDIINA author, date?	
SEJOIDEA Berlese, 1885	Palaeogene – Recent
ICHTHYOSTOMATOGASTERIDAE Sellnick, 1953	Recent
no fossil record	

SEJIDAE Berlese, 1885	Palaeogene – Recent
= LIROASPIDIDAE Trägårdh, 1946	
Sejus C. L. Koch, 1836 [NB: <i>Seius</i> in an invalid emendation].....	Palaeogene – Recent
15. <i>Sejus bdelloides</i> C. L. Koch & Berendt, 1854	Pa Baltic amber
UROPODELLIDAE Camin, 1955	Recent
no fossil record	
TRIGYNASPIDA Camin & Gorirossi, 1955 (infraorder)	Recent
CERCOMEGISTINA Camin & Gorirossi, 1955 (cohort)	Recent
CERCOMEGISTOIDEA Trägårdh, 1937	Recent
ASTERNOSEIIDAE Vale, 1955	Recent
no fossil record	
CERCOMEGISTIDAE Trägårdh, 1937	Recent
no fossil record	
DAVACARIDAE Kethley, 1979	Recent
no fossil record	
PYROSEJIDAE Lindquist & Moraza, 1993	Recent
no fossil record	
SALTISEIIDAE Walter, 2000	Recent
no fossil record	
SEIODIDAE Kethley, 1979	Recent
no fossil record	
ANTENNOPHORINA Berlese, 1882 (cohort)	Recent
ANTENNOPHOROIDEA Berlese, 1892	Recent
ANTENNOPHORIDAE Berlese, 1892	Recent
no fossil record	
CELAENOPSOIDEA Berlese, 1892	Recent
CELAENOPSIDAE Berlese, 1892	Recent
no fossil record	
COSTACARIDAE Hunter, 1993	Recent
no fossil record	
DIPLOGYNIIDAE Trägårdh, 1941	Recent

no fossil record

EUZERCONIDAE Trägårdh, 1938 **Recent**

no fossil record

MEGACELAENOPSISIDAE Funck, 1975 **Recent**

no fossil record

MEINERTULIDAE Trägårdh, 1950 **Recent**

no fossil record

NEOTENOGYNIIDAE Kethley, 1974 **Recent**

no fossil record

SCHIZOGYNIIDAE Trägårdh, 1950 **Recent**

no fossil record

TRIPLOGYNIIDAE Funck, 1977 **Recent**

no fossil record

PARAMEGISTOIDEA Trägårdh, 1946 **Recent**

PARAMEGISTIDAE Trägårdh, 1946 **Recent**

no fossil record

FEDRIZZIOIDEA Trägårdh, 1937 **Recent**

FEDRIZZIIDAE Trägårdh, 1937 **Recent**

no fossil record

KLINCKOWSTROEMIIDAE Camin & Gorirossi, 1955 **Recent**

no fossil record

PROMEGISTIDAE Kethley, 1979 **Recent**

no fossil record

MEGISTHANOIDEA Berlese, 1914 **Recent**

HOPLOMEGISTIDAE Camin & Gorirossi, 1955 **Recent**

no fossil record

MEGISTHANIDAE Berlese, 1914 **Recent**

no fossil record

PARANTENNULOIDEA Willmann, 1940 **Recent**

PARANTENNULIDAE Willmann, 1940 **Recent**

no fossil record

PHILODANIDAE Kethley, 1977b **Recent**

no fossil record

AENICTEQUOIDEA Kethley, 1979 **Recent**

AENICTEQUIDAE Kethley, 1979 **Recent**

no fossil record

EUPHYSALAZERCONIDAE Kim, 2008 **Recent**

no fossil record

MESSORACARIDAE Kethley, 1977 **Recent**

no fossil record

PHYSALAZERCONIDAE Kethley, 1977 **Recent**

no fossil record

PTOCHACARIDAE Kethley, 1979 **Recent**

no fossil record

MONOGYNASPIDA Camin & Gorioffi, 1955 (infrorder) **Palaeogene – Recent**

MICROGYNIINA Trägårdh, 1942 (cohort) **Palaeogene – Recent**

MICROGYNOIDEA Trägårdh, 1942 **Palaeogene – Recent**

Microgynoidea sp. *in* Dunlop *et al.* (2013) Pa Baltic amber

MICROGYNIIDAE Trägårdh, 1942 **Recent**

= **MICROSEJIDAE** Trägårdh, 1942

no fossil record

NOTHOGYNIDAE Walter & Kranz, 1999 **Recent**

no fossil record

HEATHERELLINA author, date? (cohort) **Recent**

HEATHERELLOIDEA Walter, 1997 **Recent**

HEATHERELLIDAE Walter, 1997 **Recent**

no fossil record

UROPODOIDEA Kramer, 1881 (cohort) **Palaeogene – Recent**

UROPODIAE Kramer, 1881 (subcohort) **Palaeogene – Recent**

PROTODINYCHOIDEA Evans, 1957 **Recent**

PROTODINYCHIDAE Evans, 1957 **Recent**

no fossil record

THINOZERCONOIDEA Halbert, 1915	Recent
THINOZERCONIDAE Halbert, 1915	Recent
no fossil record	
POLYASPIDOIDEA Berlese, 1913	Recent
DITHINOZERCONIDAE Ainscough, 1979	Recent
no fossil record	
POLYASPIDIDAE Berlese, 1913	Recent
no fossil record	
TRACHYTIDAE Trägårdh, 1938	Recent
no fossil record	
UROPODOIDEA Kramer, 1881	Palaeogene – Recent
BALOGHJKASZABIIDAE Hirschmann, 1979	Recent
no fossil record	
BRASILUROPODIDAE Hirschmann, 1979	Recent
no fossil record	
CILLIBIDAE Trägårdh, 1944	Recent
no fossil record	
CLAUSIADINYCHIDAE Hirschmann, 1979	Recent
no fossil record	
CIRCOCYLLIBAMIDAE Sellnick, 1926	Recent
no fossil record	
CYLLIBULIDAE Hirschmann, 1979	Recent
no fossil record	
DERAIOPHORIDAE Trägårdh, 1952	Recent
no fossil record	
DINYCHIDAE Berlese, 1916	Recent
no fossil record	
DISCOURELLIDAE Baker & Wharton, 1952	Recent
no fossil record	

EUTRACHYTIDAE Trägårdh, 1944	Recent
no fossil record	
HUTUFEIDERIIDAE Hirschmann, 1979	Recent
no fossil record	
KASZABJBALOGHIIDAE Hirschmann, 1979	Recent
no fossil record	
MACRODINYCHIDAE Hirschmann, 1979	Recent
no fossil record	
METAGYNURIDAE Balogh, 1943	Recent
no fossil record	
NENTERIIDAE Hirschmann, 1979	Recent
no fossil record	
OPLITIDAE Johnston, 1968	Recent
no fossil record	
PHYMATODISCIDAE Hirschmann, 1979	Recent
no fossil record	
PRODINYCHIDAE Berlese, 1917	Recent
no fossil record	
ROTUNDABALOGHIIDAE Hirschmann, 1979	Recent
no fossil record	
TERASEJASPIDAE Hirschmann, 1979	Recent
no fossil record	
TREMATURIDAE Berlese, 1917	?Palaeogene – Recent
= TREMATURELLIDAE Trägårdh, 1944	
?Trematuridae <i>in</i> Lyubarsky & Perkovsky (2012)	Pa Rovno amber
<i>Trichouropoda</i> Berlese, 1916	?Palaeogene – Recent
? <i>Trichouropoda</i> sp. [as <i>Oodinychus</i> sp.] <i>in</i> Ramsay (1960)	Qt New Zealand
TRICHOCYLLIBIDAE Hirschmann, 1979	Recent
no fossil record	
TRICHOUROPODELLIDAE Hirschmann, 1979	Recent

no fossil record

TRIGONUROPODIDAE Hirschmann *in* Wisniewski, 1979 **Recent**

no fossil record

UROACTINIIDAE Hirschmann & Zirngiebl-Nicol, 1964 **Recent**

no fossil record

URODIASPIDIDAE Trägårdh, 1944 **Recent**

no fossil record

URODINYCHIDAE Berlese, 1917 **Palaeogene – Recent**

***Uroobovella* Berlese, 1903** **?Palaeogene – Recent**

?Uroobovella sp. *in* Dunlop *et al.* (2013) Pa Baltic amber

UROPODIDAE Kramer, 1881 **Recent**

no fossil record

TRACHYUROPODOIDEA Berlese, 1917 **Recent**

TRACHYUROPODIDAE Berlese, 1917 **Recent**

no fossil record

DIARTHROPHALLIAE Trägårdh, 1946 (subcohort) **Recent**

DIARTHROPHALLOIDEA Trägårdh, 1946 **Recent**

DIARTHROPHALLIDAE Trägårdh, 1946 **Recent**

no fossil record

HETEROZERCONINA author, date? (cohort) **Recent**

HETEROZERCONOIDEA Berlese, 1892 **Recent**

DISCOZERCONIDAE Berlese, 1910 **Recent**

no fossil record

HETEROZERCONIDAE Berlese, 1892 **Recent**

no fossil record

GAMASINA Kramer, 1881 (cohort) **Palaeogene – Recent**

Gamasina indet. *in* Perkovsky *et al.* (2007) Pa Rovno amber

EPICRIIAE Vitzthum, 1938 (subcohort) **Neogene – Recent**

EPICRIOIDEA Berlese, 1885 **Recent**

EPICRIIDAE Berlese, 1885 **Recent**

no fossil record

ZERCONOIDEA Berlese, 1892	Neogene – Recent
COPROZERCONIDAE Moraza & Lindquist, 1999	Recent
no fossil record	
ZERCONIDAE Berlese, 1892	Neogene – Recent
† <i>Paleozercon</i> Błaszak, Cokendolpher & Polyak, 1995	Neogene
16. <i>Paleozercon cavernicolus</i> Błaszak, Cokendolpher & Polyak, 1995	Ne New Mexico
ARCTACARIAE Johnston, 1982 (subcohort)	Recent
ARCTACAROIDEA Evans, 1955	Recent
ARCTACARIDAE Evans, 1955	Recent
no fossil record	
PARASITIAE Reuter, 1909 (subcohort)	Palaeogene – Recent
PARASITOIDEA Oudemans, 1901	Palaeogene – Recent
PARASITIDAE Oudemans, 1901	Palaeogene – Recent
?Parasitidae indet. <i>in</i> Dunlop & Falkenhagen (2014)	Qt Germany
<i>Aclerogamasus</i> Athias, 1971	Palaeogene – Recent
17. <i>Aclerogamasus stenocornis</i> Witaliński, 2000	Pa Baltic amber
DERMANYSSIAE Evans & Till, 1997 (subcohort)	Palaeogene – Recent
VEIGAIIOIDEA Oudemans, 1939	Recent
VEIGAIIDAE Oudemans, 1939	Recent
= GAMASOLAEALAPTIDAE Oudemans, 1939	
no fossil record	
RHODACAROIDEA Oudemans, 1902	Palaeogene – Recent
DIGAMASELLIDAE Evans, 1954 ...[or 57?]	Palaeogene – Recent
Digamasellidae sp. <i>in</i> Perkovsky <i>et al.</i> (2007)	Pa Rovno amber
<i>Dendrolaelaps</i> Halbert, 1915	Neogene – Recent
18. <i>Dendrolaelaps fossilis</i> Hirschman, 1971	Ne Chiapas amber
EURYPARASITIDAE d'Antony, 1987	Recent
no fossil record	
GAMASIPHIDAE author, date?	Recent
no fossil record	
LAELAPTONYSSIDAE Womersley, 1956	Recent
no fossil record	
OLOGAMASIDAE Ryke, 1962	Recent

no fossil record

PANTENIPHIDIDAE d'Antony, 1987 **Recent**

no fossil record

RHODACARIDAE Oudemans, 1902 **Recent**

no fossil record

TERANYSSIDAE Halliday, 2006 **Recent**

no fossil record

EVIPHIDOIDEA Berlese, 1913 **Quaternary–Recent**

EVIPHIDIDAE Berlese, 1913 **Recent**

no fossil record

MACROCHELIDAE Vitzthum, 1930 **Quaternary–Recent**

Macrocheles Latreille, 1829 **Quaternary–Recent**

Macrocheles sp. in Ramsay (1960) Qt New Zealand

MEGALOLAELAPIDAE author, date? **Recent**

no fossil record

PACHYLAELAPIDAE Berlese, 1913 **Recent**

= NEOPARASITIDAE Oudemans, 1939

= BULBOGAMASIDAE Gu, Wang & Duan, 1991

no fossil record

PARHOLASPIDIDAE Evans, 1956 **Recent**

no fossil record

ASCOIDEA Oudemans, 1905 **Palaeogene – Recent**

AMEROSEIIDAE Evans in Hughs, 1961 **Recent**

no fossil record

ASCIDAE Voigts & Oudemans, 1905 **?Palaeogene – Recent**

?Ascidae sp. in Dunlop *et al.* (2013) Pa Baltic amber

HALOLAELAPIDAE Karg, 1965 **Recent**

no fossil record

MELICCHARIDAE Hirschmann, 1962 **Recent**

no fossil record

PODOCINIDAE Berlese, 1913	Quaternary – Recent
Podocinidae sp. <i>in</i> Aoki (1974)	Qt Mizunami copal
PHYTOSEIOIDEA Berlese, 1916	Recent
BLATTISCOIIDAE Garman, 1948	Recent
no fossil record	
OTOPHEIDOMENIDAE Treat, 1955	Recent
no fossil record	
PHYTOSEIIDAE Berlese, 1916	Recent
no fossil record	
DERMANYSSOIDEA Kolenati, 1859	Palaeogene – Recent
DASYPONYSSIDAE Fonseca, 1940	Recent
no fossil record	
DERMANYSSIDAE Kolenati, 1859	Recent
no fossil record	
ENTONYSSIDAE Ewing, 1922	Recent
no fossil record	
HAEMOGAMASIDAE Oudemans, 1939	Recent
no fossil record	
HALARACHNIDAE Oudemans, 1906	Recent
no fossil record	
HIRSTIONYSSIDAE Evans & Till, 1966	Recent
no fossil record	
HYSTRICHONYSSIDAE Keegan, Yunker & Baker, 1960	Recent
no fossil record	
IPHIOPSIDIDAE Kramer, 1886	Recent
no fossil record	
IXODORHYNCHIDAE Ewing, 1923	Recent
no fossil record	
LAELAPIDAE Berlese, 1892	Palaeogene – Recent
<i>Myrmozercon</i> Berlese, 1902	Palaeogene – Recent
<i>Myrmozercon</i> sp. <i>in</i> Dunlop <i>et al.</i> (2014)	Pa Baltic amber

LARVAMIMIDAE Elzinga, 1993 **Recent**

no fossil record

LEPTOLAELAPIDAE Karg, 1978 **Recent**

no fossil record

MACRONYSSIDAE Oudemans , 1936 **Recent**

no fossil record

MANITHERIONYSSIDAE Radovsky & Yunker, 1971 **Recent**

no fossil record

OMENTOLAELAPTIDAE Fain, 1961 **Recent**

no fossil record

PNEUMOPHIONYSSIDAE Fonseca, 1940 **Recent**

no fossil record

RAILLIETIIDAE Vitzthum, 1942 **Recent**

no fossil record

RHINONYSSIDAE Trouessart, 1895 **Recent**

no fossil record

SPELAEORHYNCHIDAE Oudemans, 1902 **Recent**

no fossil record

SPINTURNICIDAE Oudemans, 1902 **Recent**

no fossil record

TRICHOASPIDIDAE Gu, Wang & Li, 1991 **Recent**

no fossil record

VARROIDAE Delfinado & Baker, 1974 **Recent**

no fossil record

nomum dubium

1. *Ixodes tertarius* Scudder, 1885 Pa Wyoming

c. 12,500 Recent species

ACARIFORMES

318 currently valid species of fossil acariform mite

- higher systematics and sequence of taxa follows the third edition of *A Manual of Acarology* (Krantz & Walter, eds, 2009), except that their orders are listed here as suborders, and suborders as infraorders to achieve some degree of consistency with other arachnid higher taxa throughout this list
- a putative Ordovician mite described by Bernini *et al.* (2002) and assigned to the derived Brachypylina group of the oribatids remains controversial and is not formally listed below
- several fossils from the Triassic of India were described (Kumar & Kumar 1999) and subsequently named (Kumar 2004) as fossil lice, but are almost certainly prostigmatid and oribatid mites probably representing modern contaminants (Dalglish *et al.* 2006)

ACARIFORMES Zachvatkin, 1952 Devonian – Recent

= ACTINOTRICHIDA author, date?

TROMBIDIFORMES Reuter, 1909 (suborder) Devonian – Recent

SPHAEROLICHIDA OConnor, 1984 (infraorder) Recent

LORDALYCOIDEA Grandjean, 1939 Recent

LORDALYCHIDAE Grandjean, 1939 Recent

= HYBALICIDAE Theron, 1974

no fossil record

SPHAEROLICHOIDEA Berlese, 1913 Recent

SPHAEROLICHIDAE Berlese, 1913 Recent

no fossil record

PROSTIGMATA Kramer, 1877 (infraorder) Devonian – Recent

LABIDOSTOMMATIDES Lindquist, Krantz & Walter, 2009 (s.cohort) Palaeogene – Recent

LABIDOSTOMMATOIDEA Oudemans, 1906 Palaeogene – Recent

LABIDOSTOMMATIDAE Oudemans, 1906 Palaeogene – Recent

= NICOLETIELLIDAE Canestrini, 1891

Labidostomatidae sp. *in* Sidorchuk & Bertrand (2013) Pa Rovno amber

Labidostomatidae sp. *in* Sidorchuk & Bertrand (2013) Pa Bitterfeld amber

Labidostomma Kramer, 1879 Palaeogene – Recent

1. *Labidostomma (Nicoletiella) paleoluteum* Dunlop & Bertrand, 2011 Pa Baltic amber

2. *Labidostomma (Pseudocornutella) electri* Sidorchuk & Bertrand, 2013 .. Pa Baltic amber

Sellnickiella Feider & Vasiliu, 1969 Palaeogene – Recent

3. *Sellnickiella balticae* Sidorchuk & Bertrand, 2013 Pa Baltic amber

EUPODIDES Krantz, 1978 (supercohort)	Devonian – Recent
BDELLOIDEA Dugès, 1834	Cretaceous – Recent
BDELLIDAE Dugès, 1834	Cretaceous – Recent
<i>Bdellidae</i> sp. <i>in Aoki</i> (1974)	Qt Mizunami copal
<i>Bdella</i> Latreille, 1795	Cretaceous – Recent
4. <i>Bdella bicincta</i> Menge <i>in</i> C. L. Koch & Berendt, 1854	Pa Baltic amber
5. <i>Bdella bombycina</i> Menge <i>in</i> C. L. Koch & Berendt, 1854	Pa Baltic amber
6. <i>Bdella obconica</i> Menge <i>in</i> C. L. Koch & Berendt, 1854	Pa Baltic amber
7. <i>Bdella vetusta</i> Ewing, 1937	K Canadian amber
<i>Bdellodes</i> Oudemans, 1937	Palaeogene – Recent
8. <i>Bdellodes lata</i> (C. L. Koch & Berendt, 1854)	Pa Baltic amber
CUNAXIDAE Thor, 1902	Recent
no fossil record	
HALACAROIDEA Murray, 1877	Recent
HALACARIDAE Murray, 1877	Recent
no fossil record	
PEZIDAE Harvey, 1990	Recent
no fossil record	
EUPODOIDEA C. L. Koch, 1842	Palaeogene – Recent
COCCEUPODIDAE Jesionowska, 2010	Recent
no fossil record	
DENDOCHAETIDAE Oliver, 2008	Recent
no fossil record	
EUPODIDAE C. L. Koch, 1842	Recent
no fossil record	
ERIORHYNCHIDAE Qin & Halliday, 1997	Recent
no fossil record	
PENTAPALPIDAE Oliver & Theron, 2000	Recent
no fossil record	
PENTHALEIDAE Oudemans, 1931	Recent
no fossil record	
PENTHALODIDAE Thor, 1933	Palaeogene – Recent

<i>Penthalodes</i> Murray, 1877	Palaeogene – Recent
9. <i>Penthalodes tristiculus</i> (C. L. Koch & Berendt, 1854)	Pa Baltic amber
PROTERORHAGIIDAE Lindquist & Palacios-Vargas, 1991	Recent
no fossil record	
RHAGIDIIDAE Oudemans, 1922	Paleogene – Recent
Rhagidiidae indet. <i>in</i> Judson & Wunderlich (2003)	Pa Baltic amber
<i>Poecilophysis</i> O. P.-Cambridge, 1876	Paleogene – Recent
? <i>Poecilophysis</i> sp. <i>in</i> Judson & Wunderlich (2003)	Pa Baltic amber
† <i>Zachardia</i> Judson & Wunderlich, 2003	Paleogene
10. <i>Zachardia flexipes</i> Judson & Wunderlich, 2003	Pa Baltic amber
STRANDTMANNIIDAE Zacharda, 1979	Recent
no fossil record	
TYDEOIDEA Kramer, 1877	Devonian – Recent
EREYNETIDAE Oudemans, 1931	Recent
= MICROEREUNETIDAE Bottazzi, 1950	
no fossil record	
IOLINIDAE Pritchard, 1956	Recent
no fossil record	
TRIOPHTYDEIDAE Andrè, 1980	Recent
= MEYERELLIDAE André, 1979	
no fossil record	
TYDEIDAE Kramer, 1877	Devonian – Recent
† <i>Palaeotydeus</i> Dubinin, 1962	Devonian – Recent
11. <i>Palaeotydeus devonicus</i> Dubinin, 1962	D Rhynie chert
† <i>Parapotacarus</i> Dubinin, 1962	Devonian – Recent
12. <i>Parapotacarus hirsti</i> Dubinin, 1962	D Rhynie chert
TETRAPODILI sensu Oudemans, 1923	Triassic – Recent
TRIASACAROIDEA Lindquist & Sidorchuk <i>in</i> Sidorchuk <i>et al.</i>, 2014	Triassic
TRIASACARIDAE Lindquist & Sidorchuk <i>in</i> Sidorchuk <i>et al.</i>, 2014	Triassic
† <i>Ampezzo</i> Linquist & Grimaldi <i>in</i> Schmidt <i>et al.</i>, 2012,	Triassic
13. <i>Ampezzo triassica</i> Lindquist & Grimaldi <i>in</i> Schmidt <i>et al.</i> , 2012*	Tr Italian amber
† <i>Cheirolepidoptus</i> Sidorchuk & Lindquist <i>in</i> Sidorchuk <i>et al.</i> 2014	Triassic
14. <i>Cheirolepidoptus dolomiticus</i> Sidorchuk & Lindquist <i>in</i> Sidorchuk <i>et al.</i> , 2015*	Tr Italian amber

- † *Minyacarus* Sidorchuk & Lindquist *in* Sidorchuk *et al.*, 2014 Triassic
 15. *Minyacarus aderces* Sidorchuk & Lindquist *in* Sidorchuk *et al.*, 2015* ... Tr Italian amber
- † *Triasacarus* Linquist & Grimaldi *in* Schmidt *et al.*, 2012, Triassic – Recent
 16. *Triasacarus fedelei* Lindquist & Grimaldi *in* Schmidt *et al.*, 2012* Tr Italian amber
- ERIOPHYOIDEA** Nalepa, 1898 ?Palaeogene – Recent
- DIPTILOMIOPIDAE** Keifer, 1944 Recent
 no fossil record
- ERIOPHYIDAE** Nalepa, 1898 ?Palaeogene – Recent
- Aculops* Keifer, 1966 ? Palaeogene – Recent
 17. *Aculops keiferi* Southcott & Lange, 1971 ?Pa Australia
- PHYTOPTIDAE** Murray, 1877 Neogene – Recent
 = NALEPELLIDAE Roivainen, 1953
 no fossil record
- ANYSTIDES** van der Hammen, 1972 (supercohort) Cretaceous – Recent
- ANYSTINA** van der Hammen, 1972 (cohort) Cretaceous – Recent
- CAECULOIDEA** Berlese, 1883 Paleogene – Recent
- CAECULIDAE** Berlese, 1883 Paleogene – Recent
- Procaeculus* Jacot, 1936 Paleogene – Recent
 18. *Procaeculus dominicensis* Coineau & Poinar, 2001 Ne Dominican amber
 19. *Procaeculus eridosae* Coineau & Magowski, 1994 Pa Baltic amber
Procaeculus sp. *in* Rivas *et al.* (2016) Ne Dominican amber
- ADAMYSTOIDEA** Cunliffe, 1957 Recent
- ADAMYSTIDAE** Cunliffe, 1957 Recent
 = SAXIDROMIDAE Coineau, 1974
 no fossil record
- ANYSTOIDEA** Oudemans, 1902 Cretaceous – Recent
- ANYSTIDAE** Oudemans, 1902 Cretaceous – Recent
Anystidae sp. *in* Aoki (1974) Qt Mizunami copal
- Anystis* von Heyden, 1826 Cretaceous – Recent
 20. *Anystis malleator* (Menge *in* C. L. Koch & Berendt, 1854) Pa Baltic amber
 21. *Anystis subnuda* (Menge *in* C. L. Koch & Berendt, 1854) Pa Baltic amber
 22. *Anystis venustula* (C. L. Koch & Berendt, 1854) Pa Baltic amber
- † *Mesoanystis* Zacharda *in* Zacharda & Krivoluckij, 1985 Cretaceous
 23. *Mesoanystis taymirensis* Zacharda *in* Zacharda & Krivoluckij, 1985* K Siberian amber
- † *Palaeoerythracarus* Zacharda *in* Zacharda & Krivoluckij, 1985 Palaeogene

24. *Palaeoerythracarus sachalinensis* Zacharda *in* Zacharda & Krivoluckij, 1985* Pa Sachalin amber
- PSEUDOCHEYLIDAE Oudemans, 1909** **Recent**
 = STIGMOCHEYLIDAE Kethley, 1990
 no fossil record
- TENERIFFIIDAE Thor, 1911b** **Paleogene – Recent**
 Teneriffiidae sp. indet *in* Sayre *et al.* (1992) Pa Baltic amber
- PARATYDEOIDEA Baker, 1949** **Recent**
PARATYDEIDAE Baker, 1949 **Recent**
 no fossil record
- STIGMOCHEYLIDAE Kethley, 1990** **Recent**
 no fossil record
- POMERANTZIOIDEA Baker, 1949** **Recent**
POMERANTZIIDAE Baker, 1949 **Recent**
 no fossil record
- PARASITENGONA Oudemans, 1909 (cohort)** **Cretaceous – Recent**
ERYTHRAIAE author, date? (subcohort) **Cretaceous – Recent**
CALYPTOSTOMATOIDEA Oudemans, 1923 **Recent**
CALYPTOSTOMATIDAE Oudemans, 1923 **Recent**
 no fossil record
- ERYTHRAEOIDEA Grandjean, 1947a** **Cretaceous – Recent**
 larval Erythraeoidea *in* Zacharda & Krivoluckij (1985) K Siberian amber
- ERYTHRAEIDAE Robineau-Desvoidy, 1828** **Cretaceous – Recent**
 = LEPTIDAE Billberg, 1820
 = BALUSTIIDAE Grandjean, 1947
 = † PROTERYTHRAEIDAE Vercammen-Grandjean, 1973
 Erythraeidae sp. *in* Aoki (1974) Qt Mizunami copal
 Erythraeidae indet *in* Poinar *et al.* (2010) K Canadian amber
- † *Arytaena* Menge, 1854 *in* C. L. Koch & Berendt, 1854 **Paleogene**
 25. *Arytaena troguloides* Menge *in* C. L. Koch & Berendt, 1854* Pa Baltic amber
- Balaustium von Heyden, 1826** **Paleogene – Recent**
 26. *Balaustium illustris* (C. L. Koch & Berendt, 1854) Pa Baltic amber
- Erythraeus Latrielle, 1806** **Paleogene – Recent**
 27. *Erythraeus bifrons* (Menge *in* C. L. Koch & Berendt, 1854) Pa Baltic amber
 28. *Erythraeus foveolatus* (C. L. Koch & Berendt, 1854) Pa Baltic amber

29. <i>Erythraeus hirsutus</i> Menge in C. L. Koch & Berendt, 1854	Pa	Baltic amber
30. <i>Erythraeus lagopus</i> Menge in C. L. Koch & Berendt, 1854	Pa	Baltic amber
31. <i>Erythraeus longipes</i> (C. L. Koch & Berendt, 1854)	Pa	Baltic amber
32. <i>Erythraeus proavus</i> Menge in C. L. Koch & Berendt, 1854	Pa	Baltic amber
33. <i>Erythraeus procerus</i> (Menge in C. L. Koch & Berendt, 1854)	Pa	Baltic amber
34. <i>Erythraeus raripilus</i> Menge in C. L. Koch & Berendt, 1854	Pa	Baltic amber
35. <i>Erythraeus rostratus</i> (Menge in C. L. Koch & Berendt, 1854)	Pa	Baltic amber
36. <i>Erythraeus saccatus</i> (C. L. Koch & Berendt, 1854)	Pa	Baltic amber
Leptus Latrielle, 1796		Cretaceous – Recent
<i>Leptus</i> sp. in Arillo <i>et al.</i> (2018)	K	San Just amber
37. <i>Leptus incertus</i> (C. L. Koch & Berendt, 1854)	Pa	Baltic amber
† Pararainbowia Dunlop, 2007		Cretaceous
38. <i>Pararainbowia martilli</i> Dunlop, 2007*	K	Crato Formation
† Proterythraeus Vercammen-Grandjean, 1973		Cretaceous
39. <i>Proterythraeus southcotti</i> Vercammen-Grandjean, 1973*	K	Manitoba amber
SMARIDIDAE Vitzthum, 1929		Paleogene – Recent
Smarididae indet in Penney (2010)	Ne	Dominican amber
Smarididae indet in Perkovsky <i>et al.</i> (2010)	Pa	Dominican amber
Fessonnia von Heyden, 1826		Paleogene – Recent
40. <i>Fessonnia grabenhorsti</i> Bartel, Konikiewicz, Małkol, Wohltmann & Dunlop, 2015	Pa	Baltic amber
41. <i>Fessonnia groehni</i> Bartel, Konikiewicz, Małkol, Wohltmann & Dunlop, 2015	Pa	Baltic amber
42. <i>Fessonnia wunderlichi</i> Bartel, Konikiewicz, Małkol, Wohltmann & Dunlop, 2015	Pa	Baltic amber
TROMBIDIAE author, date? (subcohort)		Creteaceous – Recent
trombidiid mites?		
43. <i>Megameropsis aquensis</i> Gourret, 1887	Pa	Aix-en-Provence
44. <i>Pseudopachygnathus maculatus</i> Gourret, 1887	Pa	Aix-en-Provence
AMPHOTROMBIOIDEA Zhang, 1998		Recent
AMPHOTROMBIIDAE, Zhang, 1998		Recent
no fossil record		
ALLOTANAUPODOIDAE Zhang & Fan, 2007		Recent
ALLOTANAUPODIDAE Zhang & Fan, 2007		Recent
no fossil record		
TANAUPODOIDEA Thor, 1935		Creteaceous – Recent

TANAUPODIDAE Thor, 1935	Creteaceous – Recent
= ?AMPHOTROMBIIDAE Zhang, 1998	
= TANAUPODASTRIDAE Feider, 1959	
† <i>Atanaupodus</i> Judson & Małkol, 2009	Cretaceous
45. <i>Atanaupodus bakeri</i> Judson & Małkol, 2009	K Archingeay amber
CHYZERIOIDEA Womersley, 1954	Recent
CHYZERIIDAE Womersley, 1954	Recent
no fossil record	
TROMBIDIOIDEA Leach, 1815	Paleogene – Recent
ACHAEMENOTHROMBIIDAE Saboori, Wohltmann & Hakimitabar, 2010	Recent
no fossil record	
EUTROMBIDIIDAE Thor, 1935	Recent
no fossil record	
MICROTROMBIDIIDAE Thor, 1935	Recent
no fossil record	
NEOTHROMBIIDAE Feider, 1955	Recent
no fossil record	
TROMBIDIIDAE Leach, 1815	Paleogene – Recent
= PARATHROMBIIDAE Feider, 1959	
<i>Allothrombium</i> Berlese, 1903	Paleogene – Recent
46. <i>Allothrombium clavipes</i> (C. L. Koch & Berendt, 1854)	Pa Baltic amber
<i>Paratrombium</i> Bruyant, 1910	Paleogene – Recent
47. <i>Paratrombium rovniense</i> Konikiewicz & Małkol, 2014	Pa Rovno amber
<i>Trombidium</i> Fabricius, 1775	Paleogene – Recent
48. <i>Trombidium crassipes</i> Menge in C. L. Koch & Berendt, 1854	Pa Baltic amber
49. <i>Trombidium granulatum</i> Menge in C. L. Koch & Berendt, 1854	Pa Baltic amber
50. <i>Trombidium heterotrichum</i> Menge in C. L. Koch & Berendt, 1854	Pa Baltic amber
51. <i>Trombidium scrobiculatum</i> Menge in C. L. Koch & Berendt, 1854	Pa Baltic amber
NB: the next two families may be synonyms	
WALCHIIDAE Ewing, 1946	Recent
no fossil record	
TROMBICULOIDEA Ewing, 1929	Recent
AUDYANIDAE Southcott, 1987	Recent
no fossil record	

- JOHNSTONIANIDAE Thor, 1935** **Recent**
 = NOTOTHROMBIIDAE Feider, 1959
 no fossil record
- NEOTROMBIDIIDAE Feider, 1959** **Recent**
 no fossil record
- LEEUWENHOEKIIDAE Womersley, 1944** **Recent**
 no fossil record
- TROMBELLIDAE Leach, 1815** **Recent**
 no fossil record
- TROMBICULIDAE Ewing, 1929** **Recent**
 = VATACARIDAE Southcott, 1957
 no fossil record
- YUREBILLOIDEA Southcott, 1966** **Recent**
YUREBILLIDAE Southcott, 1996 **Recent**
 no fossil record
- HYDRACARNIDIAE van der Hoeven, 1849 (subcohort)** **Neogene – Recent**
 = HYDRACHNIDIA author, date?
 = HYDRACHNELLAE author, date?
- Undetermined water mites**
 Hygrobatoidea, Arrenuroidea or Lebertioidea *in* Poinar (1985) Ne Dominican amber
- HYDRYPHANTOIDEA Piersig, 1896** **Recent**
CTENOTHYADIDAE Lundblad, 1936 **Recent**
 no fossil record
- EUPATRELLIDAE Viets, 1935** **Recent**
 no fossil record
- HYDRODROMIDAE Viets, 1936** **Recent**
 = DIPLODONTIDAE Lundblad, 1927
 no fossil record
- HYDRYPHANTIDAE Piersig, 1896** **Recent**
 = PROTZIIDAE Viets, 1926
 no fossil record

- MALGASACARIDAE** Tuzovskij, Gerecke & Goldschmidt, 2007 **Recent**
no fossil record
- RHYNCHOHYDRACARIDAE** Lundblad, 1936 **Recent**
= CHATHROSPERCHONIDAE Lundblad, 1936
no fossil record
- TERATOTHYADIDAE** Viets, 1929 **Recent**
no fossil record
- THERMACARIDAE** Sokolow, 1927 **Recent**
no fossil record
- ZELANDOTHYADIDAE** Cook, 1983 **Recent**
no fossil record
- EYLAOIDEA** Leach, 1815 **Recent**
- APHEVIDERULICIDAE** Gerecke, Smith & Cook, 1999 **Recent**
no fossil record
- EYLAIIDAE** Leach, 1815 **Recent**
no fossil record
- LIMNOCHARIDAE** Grube, 1859 **Recent**
no fossil record
- PIERSIGIIDAE** Oudemans, 1902 **Recent**
no fossil record
- HYDROVOLZIOIDEA** Thor, 1905 **Recent**
- ACHERONTACARIDAE** Cook, 1967 **Recent**
no fossil record
- HYDROVOLZIIDAE** Thor, 1905 **Recent**
= POLYXOHALACARIDAE Motas, 1972
no fossil record
- HYDRACHNOIDEA** Leach, 1815 **Recent**
- HYDRACHNIDAE** Leach, 1815 **Recent**
no fossil record
- LEBERTOIDEA** Thor, 1900 **Recent**
- ACUCAPITIDAE** Wiles, 1996 **Recent**

no fossil record

ANISITSIELLIDAE Koenicke, 1910 **Recent**

= MAMERSOPSIDAE Viets, 1914

no fossil record

BANDAKIOPSIDAE Panesar, 2004 **Recent**

no fossil record

LEBERTIIDAE Thor, 1900 **Recent**

no fossil record

NILOTONIIDAE Viets, 1929 **Recent**

no fossil record

OXIDAE Viets, 1926 **Recent**

no fossil record

RUTRIPALPIDAE Solokow, 1834 **Recent**

no fossil record

SPERCHONTIDAE Thor, 1900 **Recent**

no fossil record

STYGOTONIIDAE Cook, 1992 **Recent**

no fossil record

TEUTONIDAE Koenike, 1910 **Recent**

no fossil record

TORRENTICOLIDAE Piersig, 1902 **Recent**

= ATTRACTIDEIDAE Thor, 1902

no fossil record

HYGROBATOIDEA C. L. Koch, 1842 **Recent**

ASTACOCROTONIDAE Thor, 1927 **Recent**

no fossil record

ATURIDAE Thor, 1900 **Recent**

= BRADYPODIDAE Thor, 1900 [preoccupied]

= AXONOPSIDAE Viets, 1929

= LJANIIDAE Thor, 1929

no fossil record

- FELTRIIDAE Viets, 1926** **Recent**
no fossil record
- FERRASIIDAE Cook, 1980** **Recent**
no fossil record
- FRONTIPODOPSIDAE Viets, 1931** **Recent**
no fossil record
- HYGROBATIDAE C. L. Koch, 1842b** **Recent**
no fossil record
- LETHAXONIDAE Cook, Smith & Harvey, 2000** **Recent**
no fossil record
- LIMNESIIDAE Thor, 1900** **Recent**
= NEOTORRENTICOLIDAE Lundblad, 1936
= EPALLAGOPODIDAE Viets, 1953
no fossil record
- OMARTACARIDAE Cook, 1963** **Recent**
no fossil record
- PIONIDAE Thor, 1900** **Recent**
= CURVIPEDIDAE Thor, 1900
= ACERCIDAE Thor, 1909
= FORELIIDAE Thor, 1923
= NAUTARACHNIDAE Walter, 1925
= HYDROCHOREUTIDAE Viets, 1942
no fossil record
- PONTARACHNIDAE Koenicke, 1910** **Recent**
no fossil record
- UNIONICOLIDAE Oudemans, 1909** **Recent**
= ATRACIDAE Thor, 1900
= NEUMANIIDAE Thor, 1923
no fossil record
- WETTINIDAE Cook, 1956** **Recent**
no fossil record
- ARRENUROIDEA Thor, 1900** **Neogene – Recent**

Family uncertain

- † *Protoarrenurus* Cook *in* Palmer, 1957 Neogene – Recent
 52. *Protoarrenurus convergens* Cook *in* Palmer, 1957* Ne Mojave Desert

ACALYPTONOTIDAE Walter, 1911 Recent
 no fossil record

AMOENACARIDAE Smith & Cook, 1997 Recent
 no fossil record

ARENOHYDRACARIDAE Cook, 1974 Recent
 no fossil record

ARRENURIDAE Thor, 1900 Recent
 no fossil record

ATHIENEMANNIIDAE Viets, 1922 Recent
 = CHELOMIDEOPSIDAE Lundblad, 1962
 no fossil record

BOGATIIDAE Motas & Tanasachi, 1938 Recent
 no fossil record

CHAPPUISIDIDAE Motas & Tanasachi, 1946 Recent
 no fossil record

GRETACARIDAE Viets, 1978 Recent
 no fossil record

HARPAGOPALPIDAE Viets, 1924 Recent
 no fossil record

HUNGAROHYDRACACARIDAE Motas & Tanasachi, 1959 Recent
 no fossil record

KANTACARIDAE Imamura, 1959 Recent
 no fossil record

KRENDOWSKIIDAE Viets, 1926 Recent
 no fossil record

LAVERSIIDAE Cook, 1955 Recent
 no fossil record

MIDEIDAE Thor, 1911a	Recent
no fossil record	
MIDEOPSISIDAE Koenicke, 1910	Recent
no fossil record	
MOMONIIDAE Viets, 1926	Recent
= STYGOMOMONIDAE Szalay, 1943	
no fossil record	
NEOACARIDAE Motas & Tanasachi, 1947	Recent
no fossil record	
NIPPONACARIDAE Imamura, 1959	Recent
no fossil record	
NUDOMIDEOPSISIDAE Smith, 1990	Recent
no fossil record	
UCHIDASTYGACARIDAE Imamura, 1956	Recent
no fossil record	
STYGOTHROMBIAE Thor, 1935 (subcohort)	Recent
STYGOTHROMBOIDEA Thor, 1935	Recent
STYGOTHROMBIIDAE Thor, 1935	Recent
ELEUTHERENGONIDES Oudemans, 1909 (supercohort)	Cretaceous – Recent
RAPHIGNATHINA Kethley, 1982 (cohort)	Cretaceous – Recent
MYOBIOIDEA Mégnin, 1877	Recent
MYOBIIDAE Mégnin, 1877	Recent
no fossil record	
PTERYGOSOMATOIDEA Oudemans, 1910	Cretaceous – Recent
PTERYGOSOMATIDAE Oudemans, 1910	Cretaceous – Recent
<i>Pimeliaphilus</i> Trägårdh, 1905	Cretaceous – Recent
<i>Pimeliaphilus</i> sp. in Sidorchuk & Khaustov (2018a)	K Archingeay amber
RAPHIGNATHOIDEA Kramer, 1877	Paleogene – Recent
BARBUTIIDAE Robaux, 1975	Recent
no fossil record	
CALIGONELLIDAE Grandjean, 1944	Recent

no fossil record

CAMEROBIIDAE Southcott, 1957a **Paleogene – Recent**

***Neophyllobius* Berlese, 1886** **Paleogene – Recent**

53. *Neophyllobius succineus* Bolland & Magowski, 1990..... Pa Baltic amber

CRYPTOGNATHIDAE Oudemans, 1902 **Paleogene – Recent**

no fossil record

DASYTHYREIDAE Walter & Gerson, 1998 **Recent**

no fossil record

EUPALOPSELLIDAE Willmann, 1952 **Recent**

no fossil record

HOMOCALIGIDAE Wood, 1969 **Recent**

no fossil record

MECOGNATHIDAE Gerson & Walter, 1998 **Recent**

no fossil record

RAPHIGNATHIDAE Kramer, 1877 **Recent**

no fossil record

STIGMAEIDAE Oudemans, 1931 **Paleogene – Recent**

***Mediolata* Canestrini, 1890** **Paleogene – Recent**

54. *Mediolata eocenica* Kuznetsov, Khaustov & Perkovsky, 2010..... Pa Rovno amber

XENOCALIGONELLIDIDAE Gonzalez, 1978 **Recent**

no fossil record

TETRANYCHOIDEA Donnadieu, 1876 **Palaeogene – Recent**

ALLOCHAETOPHORIDAE Reck, 1959 **Recent**

no fossil record

LINOTETRANIDAE Baker & Pritchard, 1953 **Recent**

no fossil record

TENUIPALPIDAE Berlese, 1913 **Recent**

no fossil record

TETRANYCHIDAE Donnadieu, 1876 **Palaeogene – Recent**

= BRYOBIIDAE Berlese, date?

<i>Metatetranychus</i> Oudemans, 1931	Palaeogene – Recent
55. <i>Metatetranychus gibbus</i> (C. L. Koch & Berendt, 1854)	Pa Baltic amber
<i>Schizotetranychus</i> Trägårdh, 1915	Palaeogene – Recent
56. <i>Schizotetranychus brevipes</i> (C. L. Koch & Berendt, 1854)	Pa Baltic amber
TUCKERELLIDAE Baker & Pritchard, 1953	Palaeogene – Recent
<i>Tuckerella</i> Wormesley, 1940	Palaeogene – Recent
57. <i>Tuckerella fossilibus</i> Khaustov, Sergeyenko & Perkovsky, 2014	Pa Rovno amber
58. <i>Tuckerella weiterschani</i> Sidorchuk & Khaustov, 2018b	Pa Baltic amber
CHEYLETOIDEA Leach, 1815	Cretaceous – Recent
CHEYLETIDAE Leach, 1815	Cretaceous – Recent
Chelytidae sp. indet <i>in</i> Bradley (1931)	Pa Green River
<i>Cheyletus</i> Latreille, 1796	Cretaceous – Recent
59. <i>Cheyletus burmiticus</i> Cockerell, 1917b	K Burmese amber
60. <i>Cheyletus portentosus</i> C. L. Koch & Berendt, 1854	Pa Baltic amber
DEMODECIDAE Nicolet, 1855	Recent
no fossil record	
HARPIRHYNCHIDAE Dubinin, 1957	Recent
no fossil record	
OPHIOPTIDAE Southcott, 1956	Recent
no fossil record	
PSORERGATIDAE Dubinin <i>in</i> Bregatova <i>et al.</i>, 1955	Recent
no fossil record	
SYRINGOPHILIDAE Laviopierre, 1953	Recent
no fossil record	
HETEROSTIGMATA Berlese, 1899 (cohort)	Cretaceous – Recent
† NASUTIACAROIDEA Sidorchuk & Lindquist <i>in</i> Sidorchuk <i>et al.</i>, 2015	Cretaceous
† NASUTIACARIDAE Sidorchuk & Lindquist <i>in</i> Sidorchuk <i>et al.</i>, 2015	Cretaceous
† <i>Nasutiacarus</i> Sidorchuk & Lindquist <i>in</i> Sidorchuk <i>et al.</i>, 2015	Cretaceous
61. <i>Nasutiacarus perplexus</i> Sidorchuk & Lindquist <i>in</i> Sidorchuk <i>et al.</i> , 2015*	K French amber
TARSOCHYLOIDEA Atyeo & Baker, 1964	Recent
TARSOCHYLIDAE Atyeo & Baker, 1964	Recent
no fossil record	

HETEROCHEYLOIDEA Trägårdh, 1950	Recent
HETEROCHEYLIDAE Trägårdh, 1950	Recent
no fossil record	
DOLICHOCYBOIDEA Mahunka, 1970	Recent
CROTALOMORPHIDAE Lindquist & Kranz, 2002	Recent
no fossil record	
DOLICHOCYBIDAE Mahunka, 1970	Recent
no fossil record	
TROCHOMETRIDIOIDEA Mahunka, 1970	Recent
ATHYREACARIDAE Lindquist Kaliszewski & Rack, 1990	Recent
= BEMBIDIACARIDAE Khuastov, 2000	
no fossil record	
TROCHOMETRIDIIDAE Mahunka, 1970	Recent
no fossil record	
SCUTACAROIDEA Oudemans, 1916	Recent
MICRODISPIDAE Cross, 1965	Recent
no fossil record	
SCUTACARIDAE Oudemans, 1916	Recent
no fossil record	
PYGMEPHOROIDEA Cross, 1965	Palaeogene – Recent
<i>Pygmephoroida</i> sp. <i>in</i> Magowski (1995)	Pa Baltic amber
NEOPYGMEPHORIDAE Cross, 1965	Recent
no fossil record	
PYGMEPHORIDAE Cross, 1965	Recent
no fossil record	
SITEROPTIDAE Mahunka, 1970	Recent
no fossil record	
PYEMOTOIDEA Oudemans, 1937	Cretaceous – Recent
ACAROPHENACIDAE Cross, 1965	Cretaceous – Recent
† <i>Protophenax</i> Magowski, 1994	Cretaceous

62. *Protophenax kotejii* Magowski, 1994* K Russian amber
- CARABOACARIDAE Mahunka, 1970** **Recent**
no fossil record
- PYEMOTIDAE Oudemans, 1937** **Recent**
= TROCHOMETRIDAE Mahunka, 1970
- Pyemotes* Amerling, 1862 **Palaeogene – Recent**
63. *Pyemotes primus* Khaustov & Perkovsky, 2010 Pa Rovno amber
- RESINACARIDAE Mahunka, 1975** **Cretaceous – Recent**
- Protoresinacarus* Khaustov & Poinar, 2010 **Cretaceous**
64. *Protoresinacarus brevipedis* Khaustov & Poinar, 2010* K Burmese amber
- TARSONEMOIDEA Canestrini & Fanzago, 1877** **Quaternary – Recent**
- PODAPOLIPIDAE Ewing, 1922** **Recent**
no fossil record
- TARSONEMIDAE Canestrini & Fanzago, 1877** **Quaternary – Recent**
Tarsonemidae sp. *in Aoki* (1974) Qt Mizunami copal
- Cohort *incertae sedis***
- CLOACAROIDEA Camin, Moss, Oliver & Singer, 1967** **Recent**
- CLOACARIDAE Camin, Moss, Oliver & Singer, 1967** **Recent**
no fossil record
- EPIMYODICIDAE Fain, Lukoschus & Rosmalen, 1982** **Recent**
no fossil record
- SARCOPTIFORMES author, date? (suborder)** **Devonian – Recent**
- ENDEOSTIGMATA author, date? (infraorder)** **Devonian – Recent**
= PACHYGNATHINA author, date?
- ALYCINA author, date? (cohort)**
- ALYCOIDEA Canestrini & Fanzago, 1877** **Devonian – Recent**
- ALYCIDAE Canestrini & Fanzago, 1877** **Devonian – Recent**
= PACHYGNATHIDAE Kramer, 1877
= BIMICHAELIIDAE Womersley, 1944
- † *Protacarus* Hirst, 1923 **Devonian**
65. *Protacarus crani* Hirst, 1923* D Rhynie chert
- GRANDJEANICIDAE Kethley, 1977a** **Recent**
no fossil record

- MICROPSAMMIDAE Coineau & Theorn, 1983** **Recent**
no fossil record
- NANORCHESTIDAE Grandjean, 1937** **Devonian – Recent**
† ***Protospeleorchestes* Dubinin, 1962** **Devonian – Recent**
66. *Protospeleorchestes pseudoprotacarus* Dubinin, 1962* D Rhyrie chert
- NEMATALYCINA author, date? (cohort)** **Recent**
NEMATALYCOIDEA Strenke, 1954 **Recent**
NEMATALYCIDAE Strenke, 1954 **Recent**
no fossil record
- PROTONEMATALYCIDAE Kethley, 1989** [superfamily correct?] **Recent**
no fossil record
- TERPNACARINA author, date? (cohort)** **Recent**
OEHSERCHESTOIDEA Kethley, 1977a **Recent**
OEHSERCHESTIDAE Kethley, 1977a **Recent**
no fossil record
- TERPNACAROIDEA Grandjean, 1939** **Recent**
TERPNACARIDAE Grandjean, 1939 **Recent**
no fossil record
- ALICORHAGIINA author, date? (cohort)** **Devonian – Recent**
ALICORHAGIOIDEA Grandjean, 1939 **Devonian – Recent**
ALICORHAGIIDAE Grandjean, 1939 **Devonian – Recent**
† ***Archaeacarus* Kethley & Norton in Kethley et al., 1989** **Devonian**
67. *Archaeacarus dubinini* Kethley & Norton in Kethley et al., 1989* D Gilboa
† ***Pseudoprotacarus* Dubinin, 1962** **Devonian**
68. *Pseudoprotacarus scoticus* Dubinin, 1962* D Rhyrie chert
- ORIBATIDA Dugès, 1834 (infraorder)** **Devonian – Recent**
= CRYPTOSTIGMATA author, date?
NB: see remarks on the Ordovician fossil above
- PALAEOSOMATA Grandjean, 1969 (supercohort)** **Devonian–Recent**
family uncertain
† ***Marcvipeda* Pérez-DA, 1988** **Palaeogene**
69. *Marcvipeda magallanes* Pérez-DA, 1988* [*Acari incertae sedis?*] Pa Patagonia, Chile

ACARONYCHOIDEA Grandjean, 1932	Recent
ACARONYCHIDAE Grandjean, 1932b	Recent
no fossil record	
ARCHAEONOTHRIDAE Grandjean, 1932	Recent
no fossil record	
CTENACAROIDEA Grandjean, 1954c	Devonian – Recent
ADELPHACARIDAE Grandjean, 1954c	Carbon. – Recent
† <i>Monoaphelacarus</i> Subías & Arillo, 2002	Carboniferous
70. <i>Monoaphelacarus carboniferus</i> Subías & Arillo, 2002*	C County Antrim
APHELACARIDAE Grandjean, 1954c	Recent
no fossil record	
CTENACARIDAE Grandjean, 1954b	Devonian – Recent
† <i>Ctenacaronychus</i> Subías & Arillo, 2002	Devonian
71. <i>Ctenacaronychus nortoni</i> Subías & Arillo, 2002*	D New York
† <i>Palaeoctenacarus</i> Subías & Arillo, 2002	Carboniferous
72. <i>Palaeoctenacarus simmsoi</i> Subías & Arillo, 2002*	C County Antrim
PALAEACAROIDEA Grandjean, 1932b	Recent
PALAEACARIDAE Grandjean, 1932b	Recent
no fossil record	
ENARTHRONOTA Grandjean, 1947b (supercohort)	Devonian – Recent
superfamily uncertain	
† DEVONACARIDAE Norton in Norton et al., 1988	Devonian
† <i>Devonacarus</i> Norton in Norton et al., 1988	Devonian
73. <i>Devonacarus sellnicki</i> Norton in Norton et al., 1988*	D Gilboa
† PROTOCHTHONIIDAE Norton in Norton et al., 1988	Devonian
† <i>Protochthonius</i> Norton in Norton et al., 1988	Devonian
74. <i>Protochthonius gilboa</i> Norton in Norton et al., 1988*	D Gilboa
BRACHYCHTHONIOIDEA Thor, 1934	Paleogene – Recent
BRACHYCHTHONIIDAE Thor, 1934	Paleogene – Recent
<i>Brachychthonius</i> Berlese, 1910	Paleogene – Recent
<i>Brachychthonius</i> sp. in Sellnick (1931)	Pa Baltic amber
ATOPOCHTHONIOIDEA Grandjean, 1948	Recent

- ATOPOCHTHONIIDAE Grandjean, 1948** **Recent**
no fossil record
- PHYLLOCHTHONIIDAE Travé, 1967** **Recent**
no fossil record
- PTEROCHTHONIIDAE Grandjean, 1950** **Recent**
no fossil record
- HYPOCHTHONIOIDEA Berlese, 1910** **Carbon. – Recent**
ENIOCHTHONIIDAE Grandjean, 1947b **Recent**
no fossil record
- HYPOCHTHONIIDAE Berlese, 1910** **Carbon. – Recent**
***Hypochthonius* C. L. Koch, 1835** **Quaternary – Recent**
75. *Hypochthonius rufulus* C. L. Koch, 1835 **[Recent]** Qt Finland
† ***Palaeohypochthonius* Subías & Arillo, 2002** **Carboniferous**
76. *Palaeohypochthonius jerami* Subías & Arillo, 2002* C County Antrim
- LOHMANNIIDAE Berlese, 1916** **Recent**
= XENOLOHMANNIDAE Balogh & Mahunka, 1969
no fossil record
- MESOPLOPHORIDAE Ewing, 1917** **Recent**
= ARCHOPLOPHORIDAE Grandjean, 1965
no fossil record
- PROTOPLOPHOROIDEA Ewing, 1917** **Carbon. – Recent**
COSMOCHTHONIIDAE Grandjean, 1947b **Carbon. – Recent**
† ***Carbochthonius* Subías & Arillo, 2002** **Carboniferous**
77. *Carbochthonius antrimensis* Subías & Arillo, 2002* C County Antrim
- HAPLOCHTHONIIDAE van der Hammen, 1959** **Recent**
no fossil record
- PEDICULOCHELIDAE Lavoipierre, 1946** **Recent**
no fossil record
- PROTHOPLOPHORIDAE Ewing, 1917** **Carbon. – Recent**
= APOPLOPHORIDAE Niedbala, 1984
† ***Archaeoplophora* Subías & Arillo, 2002** **Carboniferous**
78. *Archaeoplophora bella* Subías & Arillo, 2002* C County Antrim

SPHAEROCHTHONIIDAE Grandjean, 1947b	Recent
no fossil record	
HETEROCHTHONOIDEA Grandjean, 1954b	Recent
ARBORICHTHONIIDAE Balogh & Balogh, 1992	Recent
no fossil record	
HETEROCHTHONIIDAE Grandjean, 1954b	Recent
no fossil record	
TRICHTOCHTHONIIDAE Lee, 1982	Recent
no fossil record	
PARHYPOSOMATA Grandjean, 1969 (supercohort)	Carbon. – Recent
PARHYPOCHTHONIOIDEA Grandjean, 1932b	Carbon. – Recent
ELLIPTOCHTHONIIDAE Norton, 1975	Recent
no fossil record	
GEHYPOCHTHONIIDAE Strenzke, 1963	Carbon. – Recent
† <i>Gehypochthonimimus</i> Subías & Arillo, 2002	Carboniferous
79. <i>Gehypochthonimimus hibernicus</i> Subías & Arillo, 2002*	C County Antrim
PARHYPOCHTHONIIDAE Grandjean, 1932b	Recent
no fossil record	
MIXONOMATA Grandjean, 1969 (supercohort)	Carbon. – Recent
SUPERFAMILY UNCERTAIN	
† CARBOLOHMANNIIDAE Sidorchuk & Robin in Robin <i>et al.</i> (2016)	Carboniferous
† <i>Carbolohmannia</i> Sidorchuk & Robin in Robin <i>et al.</i> (2016)	Carboniferous
80. <i>Carbolohmannia maimaiphilus</i> Sidorchuk & Robin in Robin <i>et al.</i> (2016)*	C Xiaheyan, China
NEHYPOCHTHONOIDEA Norton & Metz, 1980	Recent
NEHYPOCHTHONIIDAE Norton & Metz, 1980	Recent
no fossil record	
EULOHMANNIOIDEA Grandjean, 1931	Recent
EULOHMANNIIDAE Grandjean, 1931	Recent
no fossil record	
PERLOHMANNIOIDEA Grandjean, 1954b	Recent
PERLOHMANNIIDAE Grandjean, 1954b	Recent

no fossil record

EPILOHMANNIOIDEA Oudemans, 1923 **Recent**

EPILOHMANNIIDAE Oudemans, 1923 **Recent**

= LESSIRIIDAE Oudemans, 1916

no fossil record

COLLOHMANNIOIDEA Grandjean, 1958a **Paleogene – Recent**

COLLOHMANNIIDAE Grandjean, 1958a **Paleogene – Recent**

Collohmanna Sellnick, 1922 **Paleogene – Recent**

81. *Collohmanna schusteri* Norton, 2006 Pa Baltic amber

† **Embolacarus Sellnick, 1919** **Palaeogene – Recent**

82. *Embolacarus pergratus* Sellnick, 1919* Pa Baltic amber

EUPYCTIMA Grandjean, 1967 **Palaeogene – Recent**

NB: Eupyctima is listed here as a mixonomatid clade, but is not recognised in all classifications, or else is removed from this group and given equal rank

EUPHTHIRACAROIDEA Jacot, 1930 **Palaeogene – Recent**

EUPHTHIRACARIDAE Jacot, 1930 **Palaeogene – Recent**

Microtrititia Märkel, 1964 **Quaternary – Recent**

83. *Microtrititia minima* (Berlese, 1904) **[Recent]** Qt Germany

Rhysotrititia Märkel & Meyer, 1959 **Quaternary – Recent**

84. *Rhysotrititia ardua* (C. L. Koch, 1841) **[Recent]** Qt Germany

85. *Rhysotrititia duplicata* (Grandjean, 1953) **[Recent]** Qt Germany

ORIBOTRITIIDAE Grandjean, 1954b **Palaeogene – Recent**

= SABAHRITIIDAE Mahunka, 1987

Oribotritidae indet. *in* Kaulfuss *et al.* (2011) Pa New Zealand amber

Oribotrititia Jacot, 1924 **Palaeogene – Recent**

86. *Oribotrititia pyropus* (Sellnick, 1919) Pa Baltic amber

87. *Oribotrititia translucida* Sellnick, 1931 Pa Baltic amber

SYNICHOTRITIIDAE Walker, 1965 **Recent**

no fossil record

PHTHIRACAROIDEA Perty, 1841 **Palaeogene – Recent**

PHTHIRACARIDAE Perty, 1841 **Palaeogene – Recent**

= STEGANACARIDAE Niedbała, 1986

Hoplophthiacarus Jacot, 1933 **Quaternary – Recent**

88. *Hoplophthiacarus pavidus* (Berlese, 1913) **[Recent]** Qt Karelia, Russia

Phthiacarus Perty, 1841 **Palaeogene – Recent**

89. *Phthiacarus borealis* Trägårdh, date? **[Recent]** Qt Karelia, Russia

90. <i>Phthiacarus multipunctus</i> (Sellnick, 1919)	Pa Baltic amber
Steganacarus Ewing, 1917a	Quaternary – Recent
91. <i>Steganacarus applicatus</i> (Sellnick, 1920) [Recent]	Qt Denmark
92. <i>Steganacarus carinatus</i> (C. L. Koch, 1841) [Recent]	Qt Finland
93. <i>Steganacarus striculus</i> (C. L. Koch, 1835) [Recent]	Qt Europe
<i>Steganacarus</i> sp.	Qt Finland
DESMONOMATA Woodley, 1873 (supercohort)	Jurassic – Recent
NOTHRINA van der Hammen, 1982 (cohort)	Jurassic – Recent
= HOLOSOMATA author, date?	
CROTONIOIDEA Thorell, 1876	Jurassic – Recent
CAMISIIDAE Oudemans, 1900	Cretaceous – Recent
Camisia von Heyden, 1826	Paleogene – Recent
94. <i>Camisia foveolata</i> Hammer, 1955 [Recent]	Qt western Norway
95. <i>Camisia horrida</i> [Recent] <i>fossilis</i> Sellnick, 1919	Pa Baltic amber
i. = <i>Nothrus kuehli</i> Karsch, 1884	Pa Baltic amber
NB: unclear why the older name is the synonym	
96. <i>Camisia invenusta</i> (Michael, 1888) [Recent]	Qt western Norway
97. <i>Camisia lapponica</i> Trägårdh, 1910 [Recent]	Qt Karelia, Russia
† Eocamisia Bulanova-Zachvatkina, 1974	Cretaceous
98. <i>Eocamisia sukatshevae</i> Bulanova-Zachvatkina, 1974*	K Siberian amber
Platynothrus Berlese, 1913	Quaternary – Recent
99. <i>Platynothrus peltifer</i> (C. L. Koch, 1839) [Recent]	Qt Greenland
100. <i>Platynothrus punctatus</i> (L. Koch, 1879) [Recent]	Qt northern Europe
CROTONIIDAE Thorell, 1876	Neogene – Recent
= HOLONOTHRIDAE Wallwork, 1963	
Crotonia Thorell, 1876	Neogene – Recent
101. <i>Crotonia ramus</i> (Womersley, 1957)	Ne Australian retinite
HERMANNIIDAE Sellnick, 1928	Palaeogene – Recent
= GALAPAGACARIDAE P. Balogh, 1985	
Hermannia Nicolet, 1855	Palaeogene – Recent
102. <i>Hermannia gibba</i> (C. L. Koch, 1839) [Recent]	Qt Finland
103. <i>Hermannia reticulata</i> Thorell, 1871 [Recent]	Qt Subarctic – Arctic
104. <i>Hermannia scabra</i> (L. Koch, 1879) [Recent]	Qt Greenland
105. <i>Hermannia sellnicki</i> Norton, 2006	Pa Baltic amber
MALACONOTHRIDAE Berlese, 1916	Quaternary – Recent
Malaconothrus Berlese, 1904	Quaternary – Recent
106. <i>Malaconothrus monodactylus</i> (Michael, 1888) [Recent]	Qt Europe

Trimalaconothrus Berlese, 1916	Quaternary – Recent
107. <i>Trimalaconothrus maior</i> (Berlese, 1910) [Recent]	Qt northern Europe
NANHERMANIIDAE Sellnick, 1928	Quaternary – Recent
Nanhermannia Berlese, 1913	Quaternary – Recent
108. <i>Nanhermannia coronata</i> Berlese, 1913 [Recent]	Qt Karelia, Russia
109. <i>Nanhermannia elegantula</i> Berlese, 1913 [Recent]	Qt Germany
NOTHRIDAE Berlese, 1896	Cretaceous – Recent
Nothrus C. L. Koch, 1836	Cretaceous – Recent
110. <i>Nothrus illautus</i> Sellnick, 1919	Pa Baltic amber
111. <i>Nothrus punctulum</i> Karsch, 1884	Pa Baltic amber
112. <i>Nothrus silvestris</i> Nicolet, 1855 [Recent]	Qt Europe
113. <i>Nothrus vasquezae</i> Arillo & Subías in Arillo et al., 2016	K Spanish amber
TRHYPOCHTHONIIDAE Willmann, 1931	Jurassic – Recent
= ALLONOTHRIDAE Lee, 1985	
= MUCRONOTHRIDAE Kunst, 1972	
= XXXXX Badejo, Woas & Beck, 2002	
= TRHYPOCHTHONIELLIDAE Knülle, 1957	
Afronothrus Wallwork, 1961	Cretaceous – Recent
114. <i>Afronothrus ornosae</i> Arillo & Subías in Arillo et al., 2016	K Spanish amber
Allonothrus van der Hammen, 1953	Neogene – Recent
<i>Allonothrus</i> sp. in Norton & Poinar (1993)	Ne Dominican amber
† Juracarus Krivolutsky in Krivolutsky & Krasilov, 1977	Jurassic – Recent
115. <i>Juracarus serratus</i> Krivolutsky in Krivolutsky & Krasilov, 1977	J Russian far east
Mucronothrus Trägårdh, 1931	Quaternary – Recent
116. <i>Mucronothrus nasalis</i> (Willmann, 1929) [Recent]	Qt Karelia, Russia
† Palaeochthonius Krivolutsky in Krivolutsky & Krasilov, 1977	Jurassic – Recent
117. <i>Palaeochthonius krasilovi</i> Krivolutsky in Kriv. & Krasilov, 1977	J Russian far east
Trhypochthonius Berlese, 1904	Cretaceous – Recent
118. <i>Trhypochthonius badiformis</i> Sellnick, 1931	Pa Baltic amber
119. <i>Trhypochthonius cladonicola</i> (Willmann, 1919) [Recent]	Qt Germany
120. <i>Trhypochthonius corniculatus</i> Sellnick, 1931	Pa Baltic amber
121. <i>Trhypochthonius lopezvallei</i> Arillo, Subías & Shtanchaeva, 2012	K San Just amber
122. <i>Trhypochthonius tectorum</i> (Berlese, 1896) [Recent]	Qt Karelia, Russia
BRACHYPYLINA Hull, 1918 (cohort)	Jurassic – Recent
= CIRCUMDEHISCENTIAE Grandjean, 1954b	
= PORONOTA Grandjean, 1954b [in part; taxon used for seven brachypyline superfamilies]	

superfamily uncertain

ARIBATIDAE Aoki, Takaku & Ito, 1994	Recent
no fossil record	
HERMANNIELLOIDEA Grandjean, 1934	Paleogene – Recent
HERMANNIELLIDAE Grandjean, 1934	Paleogene – Recent
<i>Hermanniella</i> Berlese, 1908	Paleogene – Recent
123. <i>Hermanniella concamerata</i> Sellnick, 1931	Pa Baltic amber
124. <i>Hermanniella tuberculata</i> Sellnick, 1919	Pa Baltic amber
<i>Sacculobates</i> Grandjean, 1962	Neogene – Recent
<i>Sacculobates</i> sp. in Norton & Poinar (1993)	Ne Dominican amber
PLASMOBATIDAE Grandjean, 1961a	Recent
no fossil record	
NEOLIODOIDEA Sellnick, 1928	Cretaceous – Recent
= LIODOIDEA Grandjean, 1954b	
NEOLIODIDAE Sellnick, 1928	Cretaceous – Recent
= LIODIDAE Grandjean, 1954b	
<i>Neoliodes</i> Berlese, 1888	Palaeogene – Recent
= <i>Liodes</i> von Heyden, 1826 [preoccupied]	
125. <i>Neoliodes brevitarsus</i> (Woolley, 1971)	Ne Chiapas amber
126. <i>Neoliodes dominicus</i> Heethoff, Helfen & Norton, 2009	Ne Dominican amber
127. <i>Neoliodes quadriscutatus</i> Sellnick, 1919	Pa Baltic amber
<i>Neoliodes</i> sp. in Norton & Poinar (1993) [as <i>Liodes</i>]	Ne Dominican amber
<i>Platyliodes</i> Berlese, 1917	Cretaceous – Recent
128. <i>Platyliodes ensigerus</i> (Sellnick, 1919)	Pa Baltic amber
129. <i>Platyliodes sellnicki</i> Arillo & Subías in Arillo <i>et al.</i> , 2016	K Spanish amber
<i>Teleliodes</i> author, date?	Neogene – Recent
<i>Teleliodes</i> sp. in Norton & Poinar (1993)	Ne Dominican amber
PLATEREMAEOIDEA Trägårdh, 1926	Cretaceous – Recent
= GYMNODAMAEOIDEA Grandjean, 1954a	
ALEURODAMAEIDAE Paschoal & Johnston, 1985	Recent
no fossil record	
GYMNODAMAEIDAE Grandjean, 1954a	Paleogene – Recent
<i>Gymnodamaeus</i> Kulczynski, 1902	Paleogene – Recent
130. <i>Gymnodamaeus sepotisus</i> Sellnick, 1919	Pa Baltic amber
IDIODAMAEIDAE Paschoal, 1987	Recent
no fossil record	

LICNOBELBIDAE Grandjean, 1965a	Recent
no fossil record	
LICNODAMAEIDAE Grandjean, 1954b	Recent
= NACUNANSELLIDAE author, date	
no fossil record	
LYRIFISSIELLIDAE Paschoal, 1987	Recent
no fossil record	
PEDROCORTESELLIDAE Paschoal, 1987	Recent
no fossil record	
PHEROLIODIDAE Paschoal, 1987	Recent
= HAMMERIELLIDAE Paschoal, 1987	
= NOOLIODIDAE Paschoal, 1989d	
no fossil record	
PLATEREMAEIDAE Trägårdh, 1926	Cretaceous – Recent
<i>Rasnitsynella</i> Krivoluckij, 1976	Cretaceous
131. <i>Rasnitsynella punctulata</i> Krivoluckij, 1976	K Taymir amber
DAMAEOIDEA Berlese, 1896	Paleogene – Recent
DAMAEIDAE Berlese, 1896	Paleogene – Recent
Damaeidae sp. <i>in Aoki</i> (1974)	Qt Mizunami copal
<i>Belba</i> von Heyden, 1826	Quaternary – Recent
132. <i>Belba compta</i> (Kulczynski, 1902) [Recent]	Qt western Norway
133. <i>Belba cornyops</i> (Hermann, 1804)* [Recent]	Qt Finland
† <i>Belbites</i> Pampaloni, 1902	Neogene
134. <i>Belbites disodilis</i> Pampaloni, 1902*	Ne? Sicily
<i>Damaeobelba</i> Sellnick, 1928	Quaternary – Recent
135. <i>Damaeobelba minutissima</i> (Sellnick, 1920) [Recent]	Qt Germany
<i>Damaeus</i> C. L. Koch, 1835	Paleogene – Recent
136. <i>Damaeus auritus</i> C. L. Koch, 1835* [Recent]	Qt Finland
137. <i>Damaeus genadensis</i> Sellnick, 1931	Pa Baltic amber
<i>Spatiodamaeus</i> Bulanova-Zachvatkina, 1967	Quaternary – Recent
138. <i>Spatiodamaeus verticillipes</i> (Nicolet, 1855)* [Recent]	Qt Finland
CEPHEOIDEA Berlese, 1896	Cretaceous – Recent
= EUTEGOIDEA Balogh, 1965	
ANDEREMAEIDAE Balogh, 1972	Recent
no fossil record	

CEPHEIDAE Berlese, 1896	Cretaceous – Recent
= COMPATOZETIDAE Luxton, 1988	
Cepheus C. L. Koch, 1835	Paleogene – Recent
139. <i>Cepheus cepheiformis</i> (Nicolet, 1855) [Recent]	Qt Finland
140. <i>Cepheus dentatus</i> (Michael, 1888) [Recent]	Qt Finland
141. <i>Cepheus implicatus</i> (Sellnick, 1919)	Pa Baltic amber
142. <i>Cepheus latus</i> C. L. Koch, 1835* [Recent]	Qt Finland
Eupterotegaeus Berlese, 1916	Cretaceous – Recent
143. <i>Eupterotegaeus bitranslamellatus</i> Arillo & Subías, 2002	K Álava amber
Ommatocepheus Berlese, 1913	Cretaceous – Recent
144. <i>Ommatocepheus nortoni</i> Arillo, Subías & Shtanchaeva, 2008	K Álava amber
CEROCEPHEIDAE Mahunka, 1986	Recent
no fossil record	
EUTEGAEIDAE Balogh, 1965	Recent
= PTEROZETIDAE Luxton, 1988	
no fossil record	
MICROTEGEIDAE Balogh, 1972	Recent
no fossil record	
NODOCEPHEIDAE Piffi, 1972	Recent
no fossil record	
NOSYBEIDAE Mahunka, 1994	Recent
no fossil record	
PTEROBATIDAE Balogh & Balogh, 1992	Recent
no fossil record	
POLYPTEROZETOIDEA Grandjean, 1959	Recent
PODOPTEROTEGAEIDAE Piffi, 1972	Recent
no fossil record	
POLYPTEROZETIDAE Grandjean, 1959	Recent
no fossil record	
TUMEROZETIDAE Hammer, 1966	Recent
no fossil record	

MICROZETOIDEA Grandjean, 1936a	Neogene – Recent
MICROZETIDAE Grandjean, 1936a	Neogene – Recent
<i>Amiracarus</i> Miko in Miko et al. (2013)	Neogene – Recent
145. <i>Amiracarus pliocennatus</i> Miko in Miko et al. (2013)	Ne Slovenian Karst
146. <i>Amiracrus senensis</i> (Bernini, 1975) in Miko et al. (2013)* [Recent]	Qt Romanian caves
AMEROIDEA Bulanova-Zachvatkina, 1957	Palaeogene – Recent
= AMEROBELBOIDEA Grandjean, 1954b	
= CALEREMEIOIDEA Grandjean, 1965c	
AMERIDAE Bulanova-Zachvatkina, 1957	Recent
no fossil record	
AMEROBELBIDAE Grandjean, 1961b	Recent
no fossil record	
BASILOBELBIDAE Balogh, 1961	Recent
no fossil record	
CALEREMAEIDAE Grandjean, 1965c	Palaeogene – Recent
<i>Caleremaeus</i> Berlese, 1910	Palaeogene – Recent
147. <i>Caleremaeus gleso</i> Sellnick, 1931	Pa Baltic amber
CTENOBELBIDAE Grandjean, 1965b	Recent
no fossil record	
DAMAEOLIDAE Grandjean, 1965b	Recent
no fossil record	
EREMOBELBIDAE Balogh, 1961	Recent
no fossil record	
EREMULIDAE Grandjean, 1965b	Recent
no fossil record	
HETEROBELBIDAE Balogh, 1961	Recent
no fossil record	
HUNGAROBELBIDAE Miko & Travé, 1996	Recent
no fossil record	
STAUROBATIDAE Grandjean, 1966	Recent
no fossil record	

ZETORCHESTOIDEA Michael, 1898	Cretaceous – Recent
= EREMAEOIDEA Oudemans, 1900	
= NIPHOCEPHOIDEA Travé, 1959 [a separate superfamily in some studies]	
† ARCHAEOORCHESTIDAE Arillo & Subías, 2000	Cretaceous
† <i>Plategeocranus</i> Sellnick, 1919	Palaeogene
148. <i>Plategeocranus sulcatus</i> (Karsch, 1884)*	Pa Baltic amber
† <i>Strieremaeus</i> Sellnick, 1919	Cretaceous – Recent
= † <i>Archaeorchestes</i> Arillo & Subías, 2000	
149. <i>Strieremaeus illibatus</i> Sellnick, 1919	Pa Baltic amber
150. <i>Strieremaeus minguezae</i> (Arillo & Subías, 2000)	K Álava amber
EREMAEIDAE Oudemans, 1900	Paleogene – Recent
<i>Eremaeus</i> C. L. Koch, 1836	Paleogene – Recent
151. <i>Eremaeus hepaticus</i> C. L. Koch, 1835* [Recent]	Qt Germany
152. <i>Eremaeus oblongus</i> [Recent] <i>fossilis</i> Sellnick, 1919	Pa Baltic amber
<i>Eueremaeus</i> Mihelcic, 1963	Quaternary – Recent
153. <i>Eueremaeus silvestris</i> (Forsslund, 1956) [Recent]	Qt Finland
† <i>Gradidorsum</i> Sellnick, 1919	Palaeogene – Recent
154. <i>Gradidorsum asper</i> Sellnick, 1919*	Pa Baltic amber
MEGEREMAEIDAE Woolley & Higgins, 1968	Cretaceous – Recent
<i>Megeremaeus</i> Higgins & Wooley 1965	Cretaceous – Recent
155. <i>Megeremaeus cretaceous</i> Sidorchuk & Behan-Pelletier, 2017	K Canadian amber
NIPHOCEPHEIDAE Travé, 1959	Recent
no fossil record	
ZETORCHESTIDAE Michael, 1898	Palaeogene – Recent
<i>Zetorchestes</i> Berlese, 1888	Palaeogene – Recent
<i>Zetorchestes</i> spp. <i>in</i> Sidorchuk & Norton (2011)	Pa Rovno amber
GUSTAVIOIDEA Oudemans, 1900	Jurassic – Recent
= LIACAROIDEA Sellnick, 1928	
ASTEGISTIDAE Balogh, 1961	Jurassic – Recent
<i>Astegistes</i> Hull, 1916	Quaternary – Recent
156. <i>Astegistes pilosus</i> (C. L. Koch, 1840) [Recent]	Qt Karelia, Russia
<i>Cultroribula</i> Berlese, 1908	Jurassic – Recent
157. <i>Cultroribula jurassica</i> Krivolutsky <i>in</i> Krivolutsky & Krasilov, 1977	J Russian far east
158. <i>Cultroribula lauta</i> Sellnick, 1931	Pa Baltic amber
159. <i>Cultroribula superba</i> Sellnick, 1931	Pa Baltic amber

GUSTAVIIDAE Oudemans, 1900	Quaternary – Recent
<i>Gustavia</i> Kramer, 1879	Quaternary – Recent
160. <i>Gustavia microcephala</i> (Nicolet, 1855) [Recent]	Qt Finland
 KODIAKELLIDAE Hammer, 1967	Recent
no fossil record	
 LIACARIDAE Sellnick, 1928	Quaternary – Recent
= XENILLIDAE Woolley & Higgins, 1966	
<i>Adoristes</i> Hull, 1916	Quaternary – Recent
161. <i>Adoristes ovatus</i> (C. L. Koch, 1839)* [Recent]	Qt northern Europe
<i>Liacarus</i> Michael, 1898	Quaternary – Recent
162. <i>Liacarus coracinus</i> (C. L. Koch, 1841) [Recent]	Qt Finland
<i>Xenillus</i> Robineau-Desvoidy, 1839	Paleogene – Recent
163. <i>Xenillus tegeocraniformis</i> (Sellnick, 1919)	Pa Baltic amber
 MULTORIBULIDAE Balogh, 1972	Recent
no fossil record	
 PELOPPIIDAE Balogh, 1943	Paleogene – Recent
<i>Ceratoppia</i> Berlese, 1908	Paleogene – Recent
164. <i>Ceratoppia bipilis fossilis</i> Sellnick, 1919	Pa Baltic amber
ii. = <i>Oribates politus</i> C. L. Koch & Berendt, 1854	Pa Baltic amber
165. <i>Ceratoppia quadridentata</i> (Haller, 1882) [Recent]	Qt Finland
 TENUIALIDAE Jacot, 1929	Quaternary – Recent
<i>Hafenrefferia</i> Oudemans, 1906	Quaternary – Recent
166. <i>Hafenrefferia gilvipes</i> (C. L. Koch, 1839)* [Recent]	Qt Finland
 CARABODOIDEA C. L. Koch, 1843b	Cretaceous – Recent
= OCTOCEPHOIDEA Balogh, 1961	
CARABOCEPHEIDAE Mahunka, 1986	Recent
no fossil record	
 CARABODIDAE C. L. Koch, 1843b	Palaeogene – Recent
<i>Carabodes</i> C. L. Koch, 1835	Palaeogene – Recent
167. <i>Carabodes areolatus</i> Berlese, 1916 [Recent]	Qt Karelia, Russia
168. <i>Carabodes coriaceus</i> C. L. Koch, 1835* [Recent]	Qt Finland
169. <i>Carabodes coriaceus</i> [Recent] <i>fossilis</i> Sellnick, 1931	Pa Baltic amber
170. <i>Carabodes dissonus</i> Sellnick, 1931	Pa Baltic amber
171. <i>Carabodes gerberi</i> Sellnick, 1931	Pa Baltic amber
172. <i>Carabodes laybrinthicus</i> (Michael, 1879) [Recent]	Qt Europe

173. <i>Carabodes labyrinthicus</i> [Recent] fossilis Sellnick, 1931	Pa	Baltic amber
174. <i>Carabodes marginatus</i> (Michael, 1884) [Recent]	Qt	Finland
175. <i>Carabodes minusculus</i> Berlese, 1923 [Recent]	Qt	Germany
176. <i>Carabodes ornatus</i> Storkan, 1925 [Recent]	Qt	Finland
177. <i>Carabodes subarcticus</i> Trägårdh, 1902 [Recent]	Qt	Finland
178. <i>Carabodes willmanni</i> Bernini, 1975 [Recent]	Qt	western Norway
? <i>Carabodes</i> sp. in Norton & Poinar (1993)	Ne	Dominican amber
† Carabodites Pampaloni, 1902	Neogene?	
179. <i>Carabodites pavesii</i> Pampaloni, 1902*	Ne?	Sicily
Odontocephalus Berlese, 1913	Quaternary – Recent	
180. <i>Odontocephalus elongatus</i> (Michael, 1879)* [Recent]	Qt	Finland
DAMPFIELLIDAE Balogh, 1961	Recent	
no fossil record		
HEXOPPIIDAE Balogh, 1983	Recent	
no fossil record		
LUXTONIIDAE Mahunka, 2001	Recent	
no fossil record		
NIPPOBODIDAE Aoki, 1959	Recent	
no fossil record		
OTOCEPHEIDAE Balogh, 1961	Cretaceous – Recent	
† Cretaceobodes Arillo, Subías & Shtanchaeva, 2010	Cretaceous – Recent	
181. <i>Cretaceobodes martinezae</i> Arillo, Subías & Shtanchaeva, 2010	K	San Just amber
Dolicheremaeus Jacot, 1938	Neogene – Recent	
<i>Dolicheremaeus</i> sp. in Norton & Poinar (1993)	Ne	Dominican amber
Otocephalus Berlese, 1905	Paleogene – Recent	
182. <i>Otocephalus niger</i> Sellnick, 1931	Pa	Baltic amber
183. <i>Otocephalus praesignis</i> Sellnick, 1931	Pa	Baltic amber
TOKUNOCEPHEIDAE Aoki, 1966a	Recent	
no fossil record		
OPPIOIDEA Grandjean, 1951	Palaeogene – Recent	
= EREMELLOIDEA Balogh, 1961 [in part]		
= TRIZETOIDEA Ewing, 1917 [in part]		
AUTOGNETIDAE Grandjean, 1960b	Quaternary – Recent	
Conchogneta Grandjean, 1963	Quaternary – Recent	
184. <i>Conchogneta traegardhi</i> (Forsslund, 1947) [Recent]	Qt	Finland

ARCEREMAEIDAE Balogh, 1972	Recent
no fossil record	
BORHIDIIDAE Balogh, 1983	Recent
no fossil record	
CHAVINIIDAE Balogh, 1983	Recent
no fossil record	
ENANTIOPPIIDAE Balogh, 1983	Recent
no fossil record	
EPIMERELLIDAE Ayyildiz & Luxton, 1989	Recent
no fossil record	
GRANULOPPIIDAE Balogh, 1983	Recent
no fossil record	
MACHADOBELBIDAE Balogh, 1972	Recent
no fossil record	
MACHUELLIDAE Balogh, 1893	Recent
no fossil record	
NOSYBELBIDAE Mahunka, 1994	Recent
no fossil record	
OPPIIDAE Grandjean, 1951	Palaeogene – Recent
<i>Dissorhina</i> Hull, 1916	Neogene – Recent
185. <i>Dissorhina nuda</i> Miko, 2015	Ne Slovenian Karst
186. <i>Dissorhina ornata</i> (Oudemans, 1900)* [Recent]	Qt Germany
187. <i>Dissorhina paleokrasica</i> Miko, 2015	Ne Slovenian Karst
<i>Oppia</i> C. L. Koch, 1836	Palaeogene – Recent
188. <i>Oppia angustum</i> (Sellnick, 1931)	Pa Baltic amber
189. <i>Oppia cervicornu</i> (Sellnick, 1919)	Pa Baltic amber
190. <i>Oppites hurdi</i> Woolley, 1971	Ne Chiapas amber
191. <i>Oppia longilamellata</i> [Recent] <i>fossilis</i> (Sellnick, 1931)	Pa Baltic amber
192. <i>Oppia medium</i> (Sellnick, 1931)	Pa Baltic amber
193. <i>Oppia mexicana</i> (Woolley, 1971)	Ne Chiapas amber
194. <i>Oppia setigera</i> (Woolley, 1971)	Ne Chiapas amber
195. <i>Oppia sucinum</i> (Sellnick, 1931)	Pa Baltic amber
? <i>Oppia</i> sp. in Norton & Poinar (1993)	Ne Dominican amber

Oppiella Jacot, 1937	Quaternary – Recent
196. <i>Oppiella nova</i> (Oudemans, 1902)* [Recent]	Qt northern Europe
197. <i>Oppiella ornata</i> (Oudemans, 1900) [Recent]	Qt western Norway
198. <i>Oppiella splendens</i> (C. L. Koch, 1841) [Recent]	Qt western Norway
199. <i>Oppiella subpectinata</i> (Oudemans, 1900) [Recent]	Qt northern Europe
200. <i>Oppiella translamellata</i> (Willmann, 1923) [Recent]	Qt northern Europe
† Oppites Pampaloni, 1902	Neogene
201. <i>Oppites melilli</i> Pampaloni, 1902*	Ne? Sicily
† Praoppiella Miko & Mourek in Miko et al., 2012	Quaternary
202. <i>Praoppiella oanae</i> Miko & Mourek in Miko et al., 2012*	Qt Slovenian Karst
Ramusella Hammer, 1962	Quaternary – Recent
203. <i>Ramusella clavipectinata</i> (Michael, 1885) [Recent]	Qt Germany
† Rhinoppioides Miko in Miko et al., 2012	Quaternary
204. <i>Rhinoppioides quadrituberculatus</i> Miko in Miko et al., 2012*	Qt Slovenian Karst
OXYAMERIDAE Aoki, 1965	Recent
no fossil record	
PAPILLONOTIDAE Balogh, 1983	Recent
no fossil record	
PLATYAMERIDAE Balogh & Balogh, 1983	Recent
no fossil record	
QUADROPPIIDAE Balogh, 1983	Recent
no fossil record	
RHYNCHORIBATIDAE Balogh, 1961	Recent
no fossil record	
SPINOZETIDAE Balogh, 1972	Recent
no fossil record	
STERNOPPIIDAE Balogh & Mahunka, 1969	Recent
no fossil record	
SUCTOBELBIDAE Jacot, 1938	Palaeogene – Recent
Suctobelbella Jacot, 1937	Palaeogene – Recent
205. <i>Suctobelbella falcata</i> (Forsslund, 1941) [Recent]	Qt Germany
206. <i>Suctobelbella latirostris</i> (Strenzke, 1950) [Recent]	Qt Germany
207. <i>Suctobelbella longirostris</i> (Forsslund, 1941) [Recent]	Qt western Norway
208. <i>Suctobelbella sarekensis</i> (Forsslund, 1941) [Recent]	Qt Europe
209. <i>Suctobelbella similis</i> (Forsslund, 1941) [Recent]	Qt Germany

210. <i>Suctobelbella subcornigera</i> (Forsslund, 1941) [Recent]	Qt Germany
211. <i>Suctobelbella subtrigona</i> (Oudemans, 1916) [Recent]	Qt Europe
212. <i>Suctobelbella subtrigona</i> [Recent] <i>fossilis</i> (Sellnick, 1931)	Pa Baltic amber
TERATOPPIIDAE Balogh, 1983	Recent
no fossil record	
TETRACONDYLIDAE Aoki, 1961	Recent
no fossil record	
THYRISOMIDAE Grandjean, 1954b	Quaternary – Recent
<i>Banksinoma</i> Oudemans, 1930	Quaternary – Recent
213. <i>Banksinoma lanceolata</i> (Michael, 1885)* [Recent]	Qt Europe
TRIZETIDAE Ewing, 1917	Recent
no fossil record	
TUPAREZETIDAE Balogh, 1972	Recent
no fossil record	
TECTOCEPHEOIDEA Grandjean, 1954b	Paleogene – Recent
TECTOCEPHEIDAE Oudemans, 1900	Paleogene – Recent
<i>Tectocephus</i> Berlese, 1895	Paleogene – Recent
214. <i>Tectocephus minor</i> Berlese, 1903 [Recent]	Qt western Norway
215. <i>Tectocephus similis</i> Sellnick, 1931	Pa Baltic amber
216. <i>Tectocephus velatus</i> (Michael, 1880)* [Recent]	Qt northern Europe
HYDROZETOIDEA Grandjean, 1954b	Jurassic – Recent
HYDROZETIDAE Grandjean, 1954b	Jurassic – Recent
<i>Hydrozetes</i> Berlese, 1902	Jurassic – Recent
217. <i>Hydrozetes confervae</i> (Schrank, 1791) [Recent]	Qt western Norway
218. <i>Hydrozetes lacustris</i> (Michael, 1882)* [Recent]	Qt northern Europe
219. <i>Hydrozetes oryktosis</i> Woolley, 1969	Qt Michigan
<i>Hydrozetes</i> sp. in Sivhed & Wallwork (1978)	J Sweden
LIMNOZETIDAE Thor, 1937	Quaternary – Recent
<i>Limnozetes</i> Hull, 1916	Quaternary – Recent
220. <i>Limnozetes ciliatus</i> (Schrank, 1803)* [Recent]	Qt northern Europe
221. <i>Limnozetes rugosus</i> (Sellnick, 1923) [Recent]	Qt northern Europe
AMERONOTHROIDEA Willmann, 1931	Quaternary – Recent
AMERONOTHRIDAE Willmann, 1931	Quaternary – Recent

- Ameronothrus Berlese, 1896** **Quaternary – Recent**
 222. *Ameronothrus lineatus* (Thorell, 1871)* **[Recent]** Qt Europe / Greenland
 223. *Ameronothrus maculatus* (Michael, 1882) **[Recent]** Qt western Norway
- FORTUYNIIDAE van der Hammen, 1963** **Recent**
 no fossil record
- SELENORIBATIDAE Schuster, 1963** **Recent**
 no fossil record
- TEGEOCRANELLIDAE Balogh, 1987** **Recent**
 no fossil record
- CYMBAEREMAEOIDEA Sellnick, 1928** **Jurassic – Recent**
CYMBAEREMAEIDAE Sellnick, 1928 **Jurassic – Recent**
 = AMETROPROCTIDAE Subías, 2004
 = SCAPHEREMAEIDAE Subías, 2004
- Ametroproctus Higgins & Woolley, 1968** **Cretaceous – Recent**
 224. *Ametroproctus valeriae* Arillo, Subías & Shtanchaeva, 2009 K San Just amber
- Cymbaeremaeus Berlese, 1896** **Paleogene – Recent**
 225. *Cymbaeremaeus cymba* (Nicolet, 1855)* **[Recent]** Qt northern Europe
- † **Jureremus Krivolutsky in Krivolutsky & Krasilov, 1977** **Jurassic**
 226. *Jureremus foveolatus* Krivolutsky in Krivolutsky & Krasilov, 1977* J Russian far east
 227. *Jureremus phippii* Selden, Baker & Phipps, 2008 J Yorkshire, UK
- Scapheremaeus Berlese, 1910** **Paleogene – Recent**
 228. *Scapheremaeus undosus* Sellnick, 1919 Pa Baltic amber
- † **Tectocymba Sellnick, 1919** **Paleogene – Recent**
 229. *Tectocymba rara* Sellnick, 1919* Pa Baltic amber
- EREMAEUZETOIDEA Piffli, 1972** **Paleogene – Recent**
 = IDIOZETOIDEA Aoki, 1976
- EREMAEUZETIDAE Piffli, 1972** **Paleogene – Recent**
Eremaeozetes Berlese, 1913 **Paleogene – Recent**
 = † *Scutoribates* Sellnick, 1919
Eremaeozetes sp. in Norton & Poinar (1993) Ne Dominican amber
- IDIOZETIDAE Aoki, 1976** **Recent**
 no fossil record
- LICNEREMAEOIDEA Grandjean, 1931** **Jurassic – Recent**
 = CHARASSOBATOIDEA Grandjean, 1958b
- ADHAESUZETIDAE Hammer, 1973** **Recent**

no fossil record

CHARASSOBATIDAE Grandjean, 1958b **Recent**

no fossil record

DENDEROEREMAEIDAE Behan-Pelletier, Eamer & Clavton, 2005 **Recent**

no fossil record

EREMELLIDAE Balogh, 1961 **Recent**

no fossil record

LAMELLAREIDAE Balogh, 1972 **Cretaceous – Recent**

***Tenuelamellarea* Subías & Iturrondobeitia, 1978** **Cretaceous – Recent**

230. *Tenuelamellarea estefaniae* Arillo & Subías in Arillo *et al.*, 2016 K Spanish amber

LICNEREMAEIDAE Grandjean, 1931 **Palaeogene – Recent**

***Licneremaeus* Paoli, 1908** **Palaeogene – Recent**

231. *Licneremaeus fritschi* Sellnick, 1931 Pa Baltic amber

232. *Licneremaeus licnophorus* (Michael, 1882) **[Recent]** Qt Germany

MICREREMIDAE Grandjean, 1954b **Jurassic – Recent**

***Micreremus* Grandjean, 1954b**[not Berlese 1908?]..... **Paleogene – Recent**

233. *Micreremus brevipes* (Michael, 1888)* **[Recent]** Qt northern Europe

234. *Micreremus reticulatus* Sellnick, 1931 Pa Baltic amber

235. *Micreremus scrobiculatus* Sellnick, 1931 Pa Baltic amber

PASSALOZETIDAE Grandjean, 1954b **Quaternary – Recent**

***Passalozetes* Grandjean, 1932a** **Quaternary – Recent**

236. *Passalozetes africanus* Grandjean, 1932a **[Recent]** Qt Finland

SCUTOVERTICIDAE Grandjean, 1954b **Cretaceous – Recent**

***Arthrovertex* Balogh, 1970** **Neogene – Recent**

237. *Arthrovertex hurdi* (Woolley, 1971)..... Ne Chiapas amber

Arthrovertex sp. in Norton & Poinar (1993) Ne Dominican amber

***Hypovertex* Krivolutsky, 1969** **Cretaceous – Recent**

238. *Hypovertex hispanicus* Arillo & Subías in Arillo *et al.*, 2016 K Spanish amber

***Scutovertex* Michael, 1879** **Quaternary – Recent**

239. *Scutovertex minutus* (C. L. Koch, 1835) **[Recent]** Qt Germany

PHENOPELOPOIDEA Petrunkevitch, 1955a **Palaeogene – Recent**

PHENOPELOPIDAE Petrunkevitch, 1955a **Palaeogene – Recent**

= PELOPIDAE author, date?

Eupelops Ewing, 1917a	Palaeogene – Recent
240. <i>Eupelops acromios</i> (Hermann, 1804) [Recent]	Qt Finland
241. <i>Eupelops curtipilus</i> (Berlese, 1916) [Recent]	Qt Germany
242. <i>Eupelops occultus</i> (C. L. Koch, 1835) [Recent]	Qt Kerelia, Russia
243. <i>Eupelops plicatus</i> (C. L. Koch, 1835) [Recent]	Qt northern Europe
244. <i>Eupelops punctulatus</i> (Sellnick, 1931)	Pa Baltic amber
245. <i>Eupelops uraceus</i> (C. L. Koch, 1839)* [Recent]	Qt Kerelia, Russia
<i>Eupelops</i> sp. in Karppinen & Koponen (1974)	Qt Finland
Peloptulus Berlese, 1908	Quaternary – Recent
246. <i>Peloptulus phaenotus</i> (C. L. Koch, 1844)* [Recent]	Qt Germany
UNDULORIBATIDAE Kunst, 1971	Palaeogene – Recent
Scutoribates Sellnick, 1918	Palaeogene – Recent
247. <i>Scutoribates perornatus</i> Sellnick, 1918	Pa Baltic amber
Unduloribates Balogh, 1943	?Palaeogene – Recent
248. <i>Unduloribates parvus</i> (Sellnick, 1931)	Pa Baltic amber
[generic affinities need clarification]	
ACHIPTERIOIDEA Thor, 1929	?Jurassic – Recent
ACHIPTERIIDAE Thor, 1929	?Jurassic – Recent
Achipteria Berlese, 1885	?Jurassic – Recent
249. <i>Achipteria coleoprata</i> (Linnaeus, 1757) [Recent]	Qt Finland / Greenland
250. ? <i>Achipteria obscura</i> Krivolutsky in Krivolutsky & Krasilov, 1977	J Russian far east
[An <i>incertae sedis</i> taxon?]	
Parachipteria van der Hammen, 1952	Quaternary – Recent
251. <i>Parachipteria punctata</i> (Nicolet, 1855) [Recent]	Qt northern Europe
252. <i>Parachipteria willmanni</i> van der Hammen, 1952 [Recent]	Qt Germany
EPACTOZETIDAE Grandjean, 1936b	Recent
no fossil record	
TEGORIBATIDAE Grandjean, 1954b	Quaternary – Recent
Tegoribates Ewing, 1917a	Quaternary – Recent
253. <i>Tegoribates latirostris</i> (C. L. Koch, 1844) [Recent]	Qt Finland
ORIBATELLOIDEA Jacot, 1925	Palaeogene – Recent
ORIBATELLIDAE Jacot, 1925	Palaeogene – Recent
Oribatella Banks, 1895	Palaeogene – Recent
254. <i>Oribatella berlesei</i> (Michael, 1898) [Recent]	Qt Finland
255. <i>Oribatella calcarata</i> (C. L. Koch, 1835) [Recent]	Qt Kerelia, Russia
256. <i>Oribatella mirabilis</i> Sellnick, 1931	Pa Baltic amber

- ORIPODOIDEA Jacot, 1925** **Palaeogene – Recent**
- CALOPPIIDAE Balogh, 1960** **Recent**
 = ?CRASSORIBATULIDAE author, date?
 no fossil record
- CAMPBELLOBATIDAE J. Balogh & P. Balogh, 1984** **Recent**
 no fossil record
- CHAUNOPROCTIDAE Balogh, 1961** **Recent**
 no fossil record
- DRYMOBATIDAE J. Balogh & P. Balogh, 1984** **Recent**
 no fossil record
- HAPLOZETIDAE Grandjean, 1936c** **Palaeogene – Recent**
 = PROTORIBATIDAE J. Balogh & P. Balogh, 1984
 = XLOBATIDAE J. Balogh & P. Balogh, 1984
- Protoribates Berlese, 1908** **Palaeogene – Recent**
 257. *Protoribates longipilis* Sellnick, 1931 Pa Baltic amber
- LAMELLAREIDAE Balogh, 1972** **Recent**
 no fossil record
- MAUDHEIMIIDAE J. Balogh & P. Balogh, 1984** **Recent**
 no fossil record
- MOCHLOZETIDAE Grandjean, 1960a** **Neogene – Recent**
 Mochlozetidae sp. *in* Norton & Poinar (1993) Ne Dominican amber
- Mochloribatula Mahunka, 1978** **Neogene – Recent**
 258. *Mochloribatula smithi* (Woolley, 1971) Ne Chiapas amber
- Mochlozetes Grandjean, 1930** **Neogene – Recent**
Mochlozetes sp. *in* Norton & Poinar (1993) Ne Dominican amber
- NASOBATIDAE Balogh, 1972** **Recent**
 no fossil record
- NEOTRICHUZETIDAE Balogh, 1965** **Recent**
 no fossil record
- NESOZETIDAE J. Balogh & P. Balogh, 1984** **Recent**
 no fossil record

ORIBATULIDAE Thor, 1929	Palaeogene – Recent
Oribatulidae sp. <i>in</i> Aoki (1974)	Qt Mizunami copal
Lucoppia Berlese, 1908	Palaeogene – Recent
259. <i>Lucoppia simplex</i> Sellnick, 1931	Pa Baltic amber
Oribatula Berlese, 1895	Quaternary – Recent
260. <i>Oribatula tibialis</i> (Nicolet, 1855)* [Recent]	Qt Europe
Phauloppia Berlese, 1908	Palaeogene – Recent
261. <i>Phauloppia lucorum</i> (C. L. Koch, 1841) [Recent]	Qt northern Europe
262. <i>Phauloppia pellucida</i> (Sellnick, 1931)	Pa Baltic amber
† Sachalinbates Arillo, Subías & Shtanchaeva, 20112 [replacement name]	Palaeogene – Recent
= † <i>Sachalinella</i> Rjabinin <i>in</i> Krivolutzkii & Rjabinin, 1976 [preoccupied]	
263. <i>Sachalinbates zherichini</i> (Rjabinin <i>in</i> Krivolutzkii & Rjabinin, 1976)*	Pa Sachalin amber
Zygoribatula Berlese, 1916	Quaternary – Recent
264. <i>Zygoribatula exilis</i> (Nicolet, 1855) [Recent]	Qt northern Europe
ORIPODIDAE Jacot, 1925	Palaeogene – Recent
= BIROBATIDAE J. Balogh & P. Balogh, 1984	
Benoibates Balogh, 1958	Neogene – Recent
265. <i>Benoibates chiapasensis</i> (Woolley, 1971)	Ne Chiapas amber
Oripoda Banks, 1904	Palaeogene – Recent
266. <i>Oripoda baltica</i> Sellnick, 1931	Pa Baltic amber
<i>Oripoda</i> sp. <i>in</i> Norton & Poinar (1993)	Ne Dominican amber
Parapirnodus Balogh & Mahunka, 1968	Neogene – Recent
267. <i>Parapirnodus denaius</i> (Woolley, 1971)	Ne Chiapas amber
PARAKALUMMIDAE Grandjean, 1936b	Palaeogene – Recent
Neoribates Berlese, 1914	Palaeogene – Recent
268. <i>Neoribates borussicus</i> Sellnick, 1931	Pa Baltic amber
SCHELORIBATIDAE Grandjean, 1933	Palaeogene – Recent
Liebstadia Oudemans, 1906	Palaeogene – Recent
269. <i>Liebstadia similiformis</i> Sellnick, 1931	Pa Baltic amber
270. <i>Liebstadia similis</i> (Michael, 1888)* [Recent]	Qt Europe / Greenland
Scheloribates Berlese, 1908	Palaeogene – Recent
271. <i>Scheloribates apertus</i> Sellnick, 1931	Pa Baltic amber
272. <i>Scheloribates areatus</i> Sellnick, 1931	Pa Baltic amber
273. <i>Scheloribates durhami</i> (Woolley, 1971)	Ne Chiapas amber
274. <i>Scheloribates initialis</i> (Berlese, 1908) [Recent]	Qt Europe
275. <i>Scheloribates laevigatus</i> (C. L. Koch, 1835) [Recent]	Qt northern Europe
276. <i>Scheloribates latipes</i> (C. L. Koch, 1844) [Recent]	Qt Europe
277. <i>Scheloribates pallidulus</i> (C. L. Koch, 1841) [Recent]	Qt Germany

278. <i>Scheloribates setatus</i> Sellnick, 1931	Pa Baltic amber
SELLNICKIIDAE Balogh & Balogh, 1984	Recent
no fossil record	
STELECHOBATIDAE Grandjean, 1965b	Recent
no fossil record	
SYMBIORIBATIDAE Aoki, 1966b	Recent
no fossil record	
TUBULOZETIDAE Balogh, 1989	Quaternary – Recent
<i>Grandjeanobates</i> Ramsay, 1967	Quaternary – Recent
? <i>Grandjeanobates</i> sp.	Qt New Zealand
ZETOMOTRICHIDAE Grandjean, 1954b	Paleogene – Recent
Zetomotrichidae sp. <i>in</i> Sidorchuk & Norton (2011)	P Baltic amber
CERATOZETOIDEA Jacot, 1925	Paleogene – Recent
CERATOKALUMMIDAE Balogh, 1970	Recent
no fossil record	
CERATOZETIDAE Jacot, 1925	Paleogene – Recent
<i>Ceratozetes</i> Berlese, 1908	Quaternary – Recent
279. <i>Ceratozetes gracilis</i> (Michael, 1884)* [Recent]	Qt Finland
280. <i>Ceratozetes minimus</i> Sellnick, 1928 [Recent]	Qt Germany
281. <i>Ceratozetes parvulus</i> Sellnick, 1922 [Recent]	Qt Germany
<i>Diapterobates</i> Grandjean, 1936b	Quaternary – Recent
282. <i>Diapterobates notatus</i> (Thorell, 1871) [Recent]	Qt Europe / Greenland
<i>Edwardzetes</i> Berlese, 1914	Quaternary – Recent
283. <i>Edwardzetes edwardsi</i> (Nicolet, 1855)* [Recent]	Qt western Norway
<i>Fuscozetes</i> Sellnick, 1928	Quaternary – Recent
284. <i>Fuscozetes fuscipes</i> (C. L. Koch, 1844)* [Recent]	Qt western Norway
<i>Melanozetes</i> Hull, 1916	Paleogene – Recent
285. <i>Melanozetes foderatus</i> Sellnick, 1931	Pa Baltic amber
286. <i>Melanozetes mollicornus</i> [Recent] fossilis Sellnick, 1931	Pa Baltic amber
287. <i>Melanozetes meridianus</i> Sellnick, 1928 [Recent]	Qt Greenland
<i>Melanozetes</i> sp. <i>in</i> Karppinen <i>et al.</i> (1979)	Qt Karelia, Russia
<i>Oromucia</i> Thor, 1930	Quaternary – Recent
288. <i>Oromucia bicuspidata</i> Thor, 1930* [Recent]	Qt western Norway
289. <i>Oromucia lucens</i> (C. L. Koch, date?) [Recent]	Qt Greenland
<i>Sphaerozetes</i> Berlese, 1885	Paleogene – Recent

290. <i>Sphaerozetes convexulus</i> (C. L. Koch & Berendt, 1854)	Pa	Baltic amber
291. <i>Sphaerozetes pirifomis</i> (Nicolet, 1855) [Recent]	Qt	Finland
292. <i>Sphaerozetes primus</i> Sellnick, 1931	Pa	Baltic amber
Trichoribates Berlese, 1910	Quaternary – Recent	
293. <i>Trichoribates biarea</i> Gjelstrup & Solhøy, 1994 [Recent]	Qt	western Norway
294. <i>Trichoribates incisellus</i> (Kramer, 1897) [Recent]	Qt	Europe
295. <i>Trichoribates monticola</i> (Trägårdh, 1902) [Recent]	Qt	western Norway
296. <i>Trichoribates setiger</i> (Trägårdh, 1910) [Recent]	Qt	western Norway
297. <i>Trichoribates trimaculatus</i> (C. L. Koch, 1835)* [Recent]	Qt	northern Europe
CHAMOBATIDAE Thor, 1937	Paleogene – Recent	
Chamobates Hull, 1916	Paleogene – Recent	
298. <i>Chamobates borealis</i> (Trägårdh, 1902) [Recent]	Qt	western Norway
299. <i>Chamobates cuspidatus</i> (Michael, 1884) [Recent]	Qt	Finland
300. <i>Chamobates difficilis</i> Sellnick, 1931	Pa	Baltic amber
EUZETIDAE Grandjean, 1954b	Quaternary – Recent	
Euzetes Berlese, 1908	Quaternary – Recent	
301. <i>Euzetes globulus</i> (Nicolet, 1855) [Recent]	Qt	Finland
HUMEROBATIDAE Grandjean, 1970	Recent	
no fossil record		
MYCOBATIDAE Grandjean, 1954b	Quaternary – Recent	
Mycobates Hull, 1916	Quaternary – Recent	
302. <i>Mycobates consimilis</i> Hammer, 1952 [Recent]	Qt	Greenland
303. <i>Mycobates parmelliae</i> (Michael, 1884) [Recent]	Qt	Karelia, Russia
304. <i>Mycobates sarekenis</i> (Trägårdh, 1910) [Recent]	Qt	western Norway
Punctoribates Berlese, 1908	Quaternary – Recent	
305. <i>Punctoribates punctum</i> (C. L. Koch, 1839) [Recent]	Qt	Karelia, Russia
306. <i>Punctoribates sellnicki</i> Willmann, 1928 [Recent]	Qt	Europe
<i>Punctoribates</i> sp. in Karppinen & Koponen (1973)	Qt	Finland
ONYCHOBATIDAE Luxton, 1985	Recent	
no fossil record		
RAMSAYELLIDAE Luxton, 1985	Recent	
no fossil record		
ZETOMIMIDAE Shaldybina, 1966	Quaternary – Recent	
Zetomimus author, date?	Quaternary – Recent	
307. <i>Zetomimus furcatus</i> (Pearce & Warburton, 1906)* [Recent]	Qt	Karelia, Russia

GALUMNOIDEA Jacot, 1925	Palaeogene – Recent
GALUMNELLIDAE Piffli, 1970	Quaternary – Recent
Galumnella Berlese, 1917	Quaternary – Recent
<i>Galumnella</i> sp. in Aoki (1974)	Qt Mizunami copal
GALUMNIDAE Jacot, 1925	Palaeogene – Recent
Galumnidae spp. in Norton & Poinar (1993)	Pa Baltic amber
Acrogalumna Grandjean, 1956b	Quaternary – Recent
308. <i>Acrogalumna longipluma</i> (Berlese, 1904)* [Recent]	Qt Karelia, Russia
Galumna von Heyden, 1826	Palaeogene – Recent
309. <i>Galumna clavata</i> Sellnick, 1931	Pa Baltic amber
310. <i>Galumna diversa</i> Sellnick, 1931	Pa Baltic amber
311. <i>Galumna lanceata</i> (Oudemans, 1900) [Recent]	Qt Karelia, Russia
312. <i>Galumna obvia</i> (Berlese, 1915) [Recent]	Qt Finland
<i>Galumna</i> sp. in Karppinen & Koponen (1974)	Qt Finland
Pergalumna Grandjean, 1936b	Quaternary – Recent
313. <i>Pergalumna dorsalis</i> (C. L. Koch, 1835) [Recent]	Qt Finland
314. <i>Pergalumna nervosa</i> (Berlese, 1914)* [Recent]	Qt northern Europe
Pilogalumna Grandjean, 1956b	Quaternary – Recent
315. <i>Pilogalumna tenuiclava</i> (Berlese, 1908) [Recent]	Qt Germany
ASTIGMATA G. Canestrini, 1891 (cohort)	Palaeogene – Recent
= ACARIDIDA author, date?	
SCHIZOGLYPHOIDEA Mahunka, 1978	Recent
SCHIZOGLYPHIDAE Mahunka, 1978	Recent
no fossil record	
HISTIOSTOMATOIDEA Berlese, 1897	?Palaeogene – Recent
GUANOLICHIDAE Fain, 1968	Recent
no fossil record	
HISTIOSTOMATIDAE Berlese, 1897	?Palaeogene – Recent
Hististomatidae? [alternatively Acaridae] in Dunlop <i>et al.</i> (2012)	Pa Baltic amber
CANESTRINIOIDEA Berlese, 1884	Recent
CANESTRINIIDAE Berlese, 1884	Recent
no fossil record	
CHETOCHELACARIDAE Fain, 1987	Recent
no fossil record	

- HETEROCOPTIDAE Fain, 1967b** **Recent**
no fossil record
- LEMANNIELLIDAE Wurst, 2001** **Recent**
no fossil record
- Superfamily?**
[NB: Sidorchuk & Klimov (2011) discussed the problems in placing this extinct family.]
- † **GLAESACARIDAE Klimov & Sidorchuk in Sidorchuk & Klimov, 2011** **Palaeogene**
† *Glaesacarus* Klimov & Sidorchuk in Sidorchuk & Klimov, 2011 **Palaeogene – Recent**
316. *Glaesacarus rhombeus* (C. L. Koch & Berendt, 1854)* Pa Baltic amber
- HEMISCARPOCTOIDEA Oudemans, 1908** **Neogene – Recent**
- ALGOPHAGIDAE Fain, 1974** **Recent**
no fossil record
- CARPOGLYPHIDAE Oudemans, 1923** **Recent**
no fossil record
- CHAETODACTYLIDAE Zachvatkin, 1941** **Recent**
no fossil record
- HEMISARCOPTIDAE Oudemans, 1908** **Recent**
no fossil record
- HYADESIIDAE Halbert, 1915** **Recent**
no fossil record
- MELIPONOCOPTIDAE Fain & Rosa, 1983** **Recent**
no fossil record
- WINTERSCHMIDTIIDAE Oudemans, 1923** **Neogene – Recent**
† *Amphicalvolia* Türk, 1963 **Neogene – Recent**
317. *Amphicalvolia hurdi* Türk, 1963* Ne Chiapas amber
- GLYCOPHAGOIDEA Berlese, 1897** **Recent**
- AEROGLYPHIDAE Zachvatkin, 1941** **Recent**
no fossil record
- CHORTOGLYPHIDAE Berlese, 1897** **Recent**
no fossil record
- ECHIMYOPODIDAE Fain, 1967a** **Recent**

no fossil record

EUGLYCYPHAGIDAE Fain & Phillips, 1977 **Recent**

no fossil record

GLYCYPHAGIDAE Berlese, 1897 **Recent**

no fossil record

PEDETOPODIDAE Fain, 1969 **Recent**

no fossil record

ROSENSTEINIIDAE Coorman, 1954 **Recent**

= LOPHONOTACARIDAE Fain, 1987

= TROGLOTACARIDAE Fain, 1977

no fossil record

ACAROIDEA Latreille, 1802 **Neogene – Recent**

ACARIDAE Latreille, 1802 **Recent**

[query family placement?]

† **Tyroglyphites Pampaloni, 1902** **Neogene – Recent**

318. *Tyroglyphites miocenicus* Pampaloni, 1902* Ne Sicily

GAUDIPELLIDAE Atyeo et al., 1974 **Recent**

= PARTAMONACOPTIDAE author, date?

= PLATYGLYPHIDAE Kurosa, 1976

no fossil record

GLYCACARIDAE Griffiths, 1977 **Recent**

no fossil record

LARDOGLYPHIDAE Oudemans, 1877 **Recent**

no fossil record

SAPRACARIDAE Fain, 1988 **Recent**

no fossil record

SCATOGLYPHIDAE Zachvatkin & Volgin, 1956 **Recent**

no fossil record

SUIDASIIDAE Hughes, 1948 **Recent**

no fossil record

TYROGLYPHIDAE Donnadieu, 1868 **Quaternary – Recent**

Tyroglyphidae sp. <i>in Aoki</i> (1974)	Qt Mizunami copal
HYPODERATOIDEA Murray, 1877	Recent
HYPODERATIDAE Murray, 1877	Recent
no fossil record	
PSOROPTIDIA Yunker, 1955 (unranked clade)	Neogene – Recent
PTEROLICHOIDEA Trouessart & Mégnin, 1884	Recent
= FREYANOIDEA Dubinin, 1953	
ASCOURACARIDAE Gaud & Atyeo, 1976	Recent
no fossil record	
CAUDIFERIDAE Gaud & Atyeo, 1978	Recent
no fossil record	
CHEYLABIDIDAE Gaud, 1983	Recent
no fossil record	
CRYPTUROPTIDAE Gaud, Atyeo & Berla, 1972	Recent
no fossil record	
EUSTATHIIDAE Oudemans, 1905	Recent
no fossil record	
FALCULIFERIDAE Oudemans, 1905	Recent
no fossil record	
FREYANIDAE Dubinin, 1953	Recent
no fossil record	
GABUCINIIDAE Gaud & Atyeo, 1975	Recent
no fossil record	
KIWILICHIDAE Dabert, 1994	Recent
no fossil record	
KRAMERELLIDAE Gaud & Mouchet, 1961	Recent
no fossil record	
OCHROLICHIDAE Gaud & Atyeo, 1978	Recent
no fossil record	
OCANNORIIDAE Gaud, Atyeo & Klompen, 1989	Recent
no fossil record	

- PTEROLICHIDAE** Trouessart & Mégnin, 1884 **Recent**
no fossil record
- PTILOXENIDAE** Gaud, 1982 **Recent**
no fossil record
- RECTIJANUIDAE** Gaud, 1961 **Recent**
no fossil record
- SYRINGOBIIDAE** Trouessart, 1897 **Recent**
no fossil record
- THORACOSATHESIDAE** Gaud & Mouchet, 1959 **Recent**
no fossil record
- VEXILLARIIDAE** Gaud & Mouchet, 1959 **Recent**
no fossil record
- ANALGOIDEA** Trouessart & Mégnin, 1884 **Recent**
- ALLOPTIDAE** Gaud, 1957 **Recent**
no fossil record
- ANALGIDAE** Trouessart & Mégnin, 1884 **Recent**
no fossil record
- APIONACARIDAE** Gaud & Atyeo, 1977 **Recent**
no fossil record
- AVENZOARIIDAE** Oudemans, 1905 **Recent**
no fossil record
- CYTODITIDAE** Oudemans, 1908 **Recent**
no fossil record
- DERMATIONIDAE** Fain, 1965 **Recent**
no fossil record
- DERMOGLYPHIDAE** Mégnin & Trouessart, 1884 **Recent**
no fossil record
- EPIDERMOPTIDAE** Trouessart, 1892 **Recent**
no fossil record

- GAUDOGLYPHIDAE Bruce & Johnston, 1976** **Recent**
no fossil record
- HETEROPSORIDAE Oudemans, 1908** **Recent**
no fossil record
- KNEMIDOKOPTIDAE Dubinin, 1953** **Recent**
no fossil record
- LAMINOSIOPTIDAE Vitzthum, 1931** **Recent**
no fossil record
- PROCTOPHYLLODIDAE Mégnin & Trouessart, 1884** **Recent**
no fossil record
- PSORALGIDAE Oudemans, 1908** **Recent**
no fossil record
- PSOROPTOIDIDAE Gaud, 1983** **Recent**
no fossil record
- PTERONYSSIDAE Oudemans, 1941** **Recent**
no fossil record
- PTYSSALGIDAE Atyeo & Gaud, 1979** **Recent**
no fossil record
- PYROGLYPHIDAE Cunliffe, 1958** **Recent**
no fossil record
- TARSOCHEYLIDAE Atyeo & Gaud, 1979** **Recent**
no fossil record
- THYSANOCERCIDAE Atyeo & Peterson, 1972** **Recent**
no fossil record
- TROUESSARTIIDAE Gaud, 1957** **Recent**
no fossil record
- TURBINOPTIDAE Fain, 1957** **Recent**
no fossil record
- XOLALGIDAE Dubinin, 1953** **Recent**

no fossil record

SARCOPTOIDEA Murray, 1877 **Neogene–Recent**

= PSOROPTOIDEA Canestrini, 1892

ACAROPTIDAE Womersley, 1953 **Recent**

no fossil record

ATOPOMELIDAE Gunter, 1942 **Neogene–Recent**

?Apotomelidae sp. [originally as Listrophoridae in Poinar 1988] Ne Dominican amber

AUDYCOPTIDAE Lavoipierre, 1964 **Recent**

no fossil record

CHIRODISCIDAE Trouessart, 1892 **Recent**

no fossil record

CHIRORHYNCHOBIIDAE Fain, 1967 **Recent**

no fossil record

GALAGALIDAE Fain, 1963 **Recent**

no fossil record

GASTRONYSSIDAE Fain, 1956 **Recent**

no fossil record

LEMURNYSIIDAE Fain, 1957 **Recent**

no fossil record

LISTROPHORIDAE Mégnin & Trouessart, 1884 **Recent**

no fossil record

LOBALGIDAE Fain, 1965 **Recent**

no fossil record

MYCOPTIDAE Gunther, 1942 **Recent**

no fossil record

PSOROPTIDAE Canestrini, 1892 **Recent**

no fossil record

PNEUMOCOPTIDAE Fain, 1957 **Recent**

no fossil record

RHYNCOPTIDAE Lawrence, 1956 **Recent**

no fossil record

SARCOPTIDAE Murray, 1877 **Recent**

no fossil record

NOMINA DUBIA

1. *Acarus resinosus* Presl, 1822 Pa Baltic amber
2. *Strieremaeus cordiformatus* Sellnick, 1919 [as *species inquirenda*] Pa Baltic amber

NOMINA NUDA

1. *Erythraeus hirsutissimus* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
2. *Gymnodamaeus kulczynskii* Petrunkevitch, 1955a Pa Baltic amber
3. *Trombidium fossile* Keferstein, 1834 Pa Aix-en-Provence?

MISIDENTIFICATIONS

1. *Limnochaeres antiquus* Heyden, 1862 [larval hemipteran insect] Pa Rott, Germany

NON NAMES IN ZOOLOGY

Taxa assigned to living mite genera based on the fossil responses of plant tissue (galls); see discussion in Dunlop & Braddy (2011)

1. *Eriophyes daphnogene* Ambrus & Hably, 1979 [fossil gall] Pa Hungary
2. *Eryophies* [sic] *vilarrubiae* Villalta, 1957 [fossil gall] Ne Spain
3. *Phytopus antiquus* van Heyden, 1860 [fossil gall] Ne Rott, Germany

c. 36,900 Recent species according to Hallan (2004)

RICINULEI

22 currently valid species of fossil ricinuleid

RICINULEI Thorell, 1876c	Carbon. – Recent
= RHINOASTRA Cook, 1899	
= PODOGONA Cook, 1899	
† PRIMORICINULEI Wunderlich, 2015c (suborder)	Cretaceous
† PRIMORICINULEIDAE Wunderlich, 2015c	Cretaceous
† <i>Primoricinuleus</i> Wunderlich, 2015c	Cretaceous
1. <i>Primoricinuleus pugio</i> Wunderlich, 2015c*	K Burmese amber
† HIRSUTISOMIDAE Wunderlich, 2017b	Cretaceous
† <i>Hirsutisoma</i> Wunderlich, 2017b	Cretaceous
2. <i>Hirsutisoma acutiformis</i> Wunderlich, 2017b	K Burmese amber
3. <i>Hirsutisoma bruckschi</i> Wunderlich, 2017b*	K Burmese amber
4. <i>Hirsutisoma dentata</i> Wunderlich, 2017b	K Burmese amber
† MONOOCULRCINULIDAE Wunderlich, 2017b	Cretaceous
† <i>Monooculricinuleus</i> Wunderlich, 2017b	Cretaceous
5. <i>Monooculricinuleus incisus</i> Wunderlich, 2017b*	K Burmese amber
6. <i>Monooculricinuleus semiglobosus</i> Wunderlich, 2017b*	K Burmese amber
NB: These two species appear to be misidentified laniatorids (Opliones) from the family Sandokanidae	
† PALAEORICINULEI Selden, 1992 (suborder)	Carboniferous – ?Cret.
NB: Wunderlich (2012e) treated Selden's two suborders as superfamilies.	
Ricinulei indet. <i>in</i> Wunderlich (2012e)	K Burmese amber
† CURCULIOIDIDAE Cockerell, 1916	Carboniferous
† <i>Amarixys</i> Selden, 1992	Carboniferous
7. <i>Amarixys gracilis</i> (Petrunkevitch, 1945a)	C Mazon Creek
8. <i>Amarixys stellaris</i> Selden, 1992	C Mazon Creek
9. <i>Amarixys sulcata</i> (Melander, 1903)*	C Mazon Creek
† <i>Curculioides</i> Buckland, 1837	Carboniferous
10. <i>Curculioides adompha</i> Brauckmann, 1987	C Hagen-Vorhalle
11. <i>Curculioides ansticii</i> Buckland, 1837*	C Coalbrookdale
12. <i>Curculioides eltringhami</i> Petrunkevitch, 1949	C Crawcrook
13. <i>Curculioides gigas</i> Selden, 1992	C Mazon Creek
14. <i>Curculioides granulatus</i> Petrunkevitch, 1949	C Ilkeston

15. *Curculioides mcluckiei* Selden, 1992 C Mazon Creek
 16. *Curculioides pococki* Selden, 1992 C Coseley
 17. *Curculioides scaber* (Scudder, 1890*b*) C Mazon Creek
- † **POLIOCHERIDAE Scudder, 1884** **Carboniferous – ?Cret.**
- † ***Poliochera* Scudder, 1884** **Carboniferous – ?Cret.**
18. ?*Poliochera cretacea* Wunderlich, 2012*e* K Burmese amber
 19. *Poliochera gibbsi* Selden, 1992 C Illinois
 20. *Poliochera glabra* Petrunkevitch, 1913 C Mazon Creek
 21. *Poliochera punctulata* Scudder, 1884* C Mazon Creek
- † ***Terpsicroton* Selden, 1992** **Carboniferous**
22. *Terpsicroton alticeps* Selden, 1992* C Coseley
- NEORICINULEI Selden, 1992 (suborder)** **Recent**
- RICINOIDIDAE Ewing, 1929** **Recent**
- = CRYPTOSTEMMIDAE Westwood, 1874
- no fossil record
- NOMINA DUBIA*
1. *Poliochera* / *Curculioides pustulatus* Laurentiaux-Viera & Laurentiaux, 1963 C Kiaping

76 Recent species according to Fernández & Giribet (2015)

ARACHNIDA and/or PANTETRAPULMONATA

incertae sedis

4 currently valid, unplaced fossil arachnid and/or tetrapulmonate species

- all four species below have been suggested as possible members of the so-called pantetrapulmonate arachnids; i.e. spiders and their closest relatives
- *Idmonarachne* was specifically proposed as a putative sister-group to spiders

† <i>Ecchosis</i> Selden & Shear, 1991	Devonian
1. <i>Ecchosis pulchribothrium</i> Selden & Shear in Selden et al. 1991*	D Gilboa
† <i>Idmonarachne</i> Garwood, Dunlop, Selden, Spencer, Atwood, Vo & Drakopoulos, 2016	Devonian
2. <i>Idmonarachne brasieri</i> Garwood, Dunlop, Selden, Spencer, Atwood, Vo & Drakopoulos, 2016*	C Montceau-les-Mines
† <i>Saccogulus</i> Dunlop, Fayers, Hass & Kerp, 2006	Devonian
3. <i>Saccogulus seldeni</i> Dunlop, Fayers, Hass & Kerp, 2006*	D Rhyie chert
† <i>Xenarachne</i> Dunlop & Poschmann, 1997	Devonian
4. <i>Xenarachne wilwerathensis</i> Dunlop & Poschmann, 1997*	D Willwerath

no Recent species

TRIGONOTARBIDA

70 currently valid species of fossil trigonotarbid

- † **TRIGONOTARBIDA Petrunkevitch, 1949** **Silurian – Permian**
 = ANTHRACOMARTI Karsch, 1882
 = MERIDOGASTRA Thorell & Lindström, 1885
 = EURYMARTI Matthew, 1895
- plesion genus**
- † **Palaeotarbus Dunlop, 1999** **Silurian**
 = † *Eotarbus* Dunlop, 1996 [preoccupied]
 1. *Palaeotarbus jerami* (Dunlop, 1996)* S Ludford Lane
- † **PALAEOCHARINIDAE Hirst, 1923** **Devonian**
- † **Aculeatarbus Shear, Selden & Rolfe, 1987** **Devonian**
 2. *Aculeatarbus depressus* Shear, Selden & Rolfe, 1987* D Gilboa
- † **Gelasinotarbus Shear, Selden & Rolfe, 1987** **Devonian**
 3. *Gelasinotarbus bifidus* Shear, Selden & Rolfe, 1987 D Gilboa
 4. *Gelasinotarbus bonamoae* Shear, Selden & Rolfe, 1987* D Gilboa
 5. *Gelasinotarbus heptops* Shear, Selden & Rolfe, 1987 D Gilboa
 6. *Gelasinotarbus reticulatus* Shear, Selden & Rolfe, 1987 D Gilboa
- † **Gigantocharinus Shear, 2000** **Devonian**
 7. *Gigantocharinus szatmaryi* Shear, 2000* D Red Hill, USA
- † **Gilboarachne Shear, Selden & Rolfe, 1987** **Devonian**
 8. *Gilboarachne griersoni* Shear, Selden & Rolfe, 1987* D Gilboa
- † **Palaeocharinus Hirst, 1923** **Devonian**
 = † *Palaeocharinoides* Hirst, 1923
 9. *Palaeocharinus calmani* Hirst, 1923 D Rhynie cherts
 10. *Palaeocharinus hornei* (Hirst, 1923) D Rhynie cherts
 11. *Palaeocharinus kidstoni* Hirst, 1923 D Rhynie cherts
 12. *Palaeocharinus rhyniensis* Hirst, 1923* D Rhynie cherts
 13. *Palaeocharinus scourfieldi* Hirst, 1923 D Rhynie cherts
 14. *Palaeocharinus tuberculatus* Fayers, Dunlop & Trewin, 2005 D Rhynie cherts
- † **Spiniocharinus Poschmann & Dunlop, 2011** **Devonian**
 15. *Spiniocharinus steinmeyeri* Poschman & Dunlop, 2011* D Bürdenbach
- † **ARCHAEOMARTIDAE Poschmann & Dunlop, 2010** **Devonian**
- † **Archaeomartus Størmer, 1970** **Devonian**
 16. *Archaeomartus levis* Størmer, 1970* D Alken an der Mosel
 i. = *Archaeomartus tuberculatus* Størmer, 1970 D Alken an der Mosel

- † **ANTHRACOMARTIDAE Haase, 1890** **Carboniferous**
- = † PROMYGALIDAE Frič, 1904
- = † BRACHYPYGIDAE Pocock, 1911
- = † CORYPHOMARTIDAE Petrunkevitch, 1945
- = † PLEOMARTIDAE Petrunkevitch, 1945
- † ***Anthracomartus* Karsch, 1882** **Carboniferous**
- = † *Brachylycosa* Frič, 1904
- = † *Cleptomartus* Petrunkevitch, 1949
- = † *Coryphomartus* Petrunkevitch, 1945a
- = † *Cryptomartus* Petrunkevitch, 1945a
- = † *Oomartus* Petrunkevitch, 1953
- = † *Perneria* Frič, 1904
- = † *Pleomartus* Petrunkevitch, 1945a
- = † *Promygale* Frič, 1901
17. *Anthracomartus bohémica* (Frič, 1901) C Nýřany
18. *Anthracomartus carcinoides* (Frič, 1901) C Nýřany
- i. = *Promygale rotundata* Frič, 1901 C Nýřany
- ii. = *Perneria salticoides* Frič, 1904 C ?Nýřany
19. *Anthracomartus elegans* Frič, 1901 C Nýřany
20. *Anthracomartus hindi* Pocock, 1911 C Coseley
- i. = *Cleptomartus hangardi* Guthörl, 1965 C Saar, Germany
- ii. = *Cryptomartus meyeri* Guthörl, 1964 C Aachen
- iii. = *Cleptomartus planus* Petrunkevitch, 1949 C Coseley
- iv. = *Cryptomartus rebskei* Brauckmann, 1984 C Saarbrücken
21. *Anthracomartus granulatus* Frič, 1904 C Nowa Ruda
22. *Anthracomartus janae* (Opluštil, 1986) C Kladno
23. *Anthracomartus kustae* Petrunkevitch, 1953 C Rakovník
24. *Anthracomartus minor* Kušta, 1884 C Rakovník
- i. = *Anthracomartus socius* Kušta, 1888 C Rakovník
25. *Anthracomartus nyranensis* (Petrunkevitch, 1953) C Nýřany
26. *Anthracomartus palatinus* Ammon, 1901 C Brücken, Germany
27. *Anthracomartus preisti* Pocock, 1911 C Coseley
- i. = *Anthracomartus denuiti* Pruvost, 1922 C Charleroi
- ii. = *Cleptomartus plautus* Petrunkevitch, 1949 C Coseley
28. *Anthracomartus radvanicensis* (Opluštil, 1985) C Radvanice
29. *Anthracomartus triangularis* Petrunkevitch, 1913 C Joggins
30. *Anthracomartus trilobitus* Scudder, 1884 C Fayetteville
31. *Anthracomartus voelkelianus* Karsch, 1882* C Europe
- Anthracomartus* sp. in Wright & Selden (2011) C Kansas
- † ***Brachypyge* Woodward, 1878b** **Carboniferous**
32. *Brachypyge carbonis* Woodward, 1878b* C Mons

- † *Maiocercus* Pocock, 1911 **Carboniferous**
 33. *Maiocercus celticus* (Pocock, 1902)* C Coal Measures
 i. = *Maiocercus orbicularis* Gill, 1911 C Westhoughton
- † **ANTHRACOSIRONIDAE** Pocock, 1903a **Devonian – Carbon.**
- † *Anthracosiro* Pocock, 1903a **Carboniferous**
 34. *Anthracosiro fritschii* Pocock, 1903b C Coseley
 i. = *Anthracosiro elongatus* Waterlot, 1934 C Marlebach, France
 35. *Anthracosiro woodwardi* Pocock, 1903a* C Coal Measures
 i. = *Anthracosiro corsini* Pruvost, 1926 C Noeux, France
 ii. = *Anthracosiro latipes* Gill, 1909 C Ryton-on-Tyne, UK
- † *Arianrhoda* Dunlop & Selden, 2004 **Devonian**
 36. *Arianrhoda bennetti* Dunlop & Selden, 2004* D Tredomen
- † *Vratislavia* Frič, 1904 **Carboniferous**
 37. *Vratislavia silesica* (Roemer, 1878)* C Silesia
- † **TRIGONOTARBIDAE** Petrunkevitch, 1949 **Devonian – Carbon.**
- † *Trigonotarbus* Pocock, 1911 **Devonian – Carbon.**
 38. *Trigonotarbus arnoldi* Petrunkevitch, 1955b C Decazeville
 39. *Trigonotarbus johnsoni* Pocock, 1911* C Coseley
 40. *Trigonotarbus stoermeri* Schultka, 1991 D Rheinischen Schief.
- Family uncertain**
- † *Aenigmatarbus* Poschmann, Dunlop, Bértoux & Galtier, 2016 **Carboniferous**
 41. *Aenigmatarbus rastelli* Poschmann, Dunlop, Bértoux & Galtier, 2016* .. C Graissessac, France
- † *Namurotarbus* Poschmann & Dunlop, 2010 **Carboniferous**
 42. *Namurotarbus roessleri* (Dunlop & Brauckmann, 2006)* C Hagen-Vorhalle
- † *Permotarbus* Dunlop & Rößler, 2013 **Permian**
 43. *Permotarbus schuberti* Dunlop & Rößler, 2013 P Chemnitz
- † *Tynecotarbus* Hradská & Dunlop, 2013 **Carboniferous**
 44. *Tynecotarbus tichaveki* Hradská & Dunlop, 2013 C Týnec
- † **LISSOMARTIDAE** Dunlop, 1995 **Carboniferous**
- † *Lissomartus* Petrunkevitch, 1949 **Carboniferous**
 45. *Lissomartus carbonarius* (Petrunkevitch, 1913) C Mazon Creek
 46. *Lissomartus schucherti* (Petrunkevitch, 1913)* C Mazon Creek
- † **APHANTOMARTIDAE** Petrunkevitch, 1945a **Devonian – Permian**
 = † **TRIGONOMARTIDAE** Petrunkevitch, 1949
- † *Alkenia* Størmer, 1970 **Devonian**
 47. *Alkenia mirabilis* Størmer, 1970* D Alken an der Mosel
- † *Aphantomartus* Pocock, 1911 **Carbon. – Permian**

- = † *Trigonomartus* Petrunkevitch, 1913
 = † *Phrynomartus* Petrunkevitch, 1945a
48. *Aphantomartus areolatus* Pocock, 1911* C–P Coal Measures
 i. = *Aphantomartus pococki* Pruvost, 1912 C Anzin, France
 ii. = *Trigonomartus dorlodoti* Pruvost, 1930 C Rien, France
 iii. = *Eophrynus waechteri* Guthörl, 1938 C Saar
 iv. = ? *Trigonomartus pruvosti* van der Heide, 1951 C Limbourg
 v. = ? *Brachylycosa manebachensis* Müller, 1957 C Rotliegenden
49. *Aphantomartus ilfeldicus* (Scharf, 1924) P Rotliegend
50. *Aphantomartus pustulatus* (Scudder, 1884) C Coal Measures
 i. = ? *Kreischeria villeti* Pruvost, 1912 C Pas de Calais
 ii. = *Cleptomartus plötzensis* Simon, 1971 C Halleschen Mulde
- † **KREISCHERIIDAE Haase, 1890** **Carboniferous**
- † **Anzinia Petrunkevitch, 1953** **Carboniferous**
 51. *Anzinia thevenini* (Pruvost, 1919)* C Anzin
- † **Gondwanarache Pinto & Hünicken, 1980** **Carboniferous**
 52. *Gondwanarache argentinensis* Pinto & Hünicken, 1980* C Bajo de Véliz
- † **Hemikreischeria Frič, 1904** **Carboniferous**
 53. *Hemikreischeria geinitzi* (Thevenin, 1902)* C France
- † **Kreischeria Geinitz, 1882** **Carboniferous**
 54. *Kreischeria wiedeii* Geinitz, 1882* C Zwickau
- † **Pseudokreischeria Petrunkevitch, 1953** **Carboniferous**
 55. *Pseudokreischeria pococki* (Gill, 1924) C Crawcrook
 i. = *Eophrynus varius* Petrunkevitch, 1949 C Crawcrook
- † **EOPHRYNIDAE Karsch, 1882** **Carboniferous**
 = † HEMIPHRYNIDAE Frič, 1904
- † **Eophrynus Woodward, 1871b** **Carboniferous**
 56. *Eophrynus prestvicii* (Buckland, 1837)* C Coalbrookdale
 57. *Eophrynus udus* Brauckmann, Koch & Kemper, 1985 C Hagen-Vorhalle
- † **Nyranytarbus Harvey & Selden, 1995** **Carboniferous**
 = † *Hemiphrynus* Frič, 1901 [preoccupied]
58. *Nyranytarbus hofmanni* (Frič, 1901) C Nýřany
 59. *Nyranytarbus longipes* (Frič, 1901)* C Nýřany
- † **Petrovicia Frič, 1904** **Carboniferous**
 60. *Petrovicia proditoria* Frič, 1904* C Petrovice
- † **Planomartus Petrunkevitch, 1953** **Carboniferous**
 61. *Planomartus krejci* (Kušta, 1883)* C Rakovník
 i. = *Anthracomartus affinis* Kušta, 1885 C Rakovník
- † **Pleophrynus Petrunkevitch, 1945a** **Carboniferous**
 62. *Pleophrynus verrucosus* (Pocock, 1911) C Coal Measures

- i. = *Eophrynus warei* Dix & Pringle, 1930 C Glyncoch, UK
 ii. = *Pleophrynus ensifer* Petrunkevitch, 1945a* C Mazon Creek
 iii. = *Eophrynus jugatus* Ambrose & Romano, 1972 C Kilmersdon, UK
 63. *Pleophrynus hawsei* Dunlop, Wang, Selden & Krautz, 2014 C Kinney Brick Quarry
- † **Pocononia** Petrunkevitch, 1953 **Carboniferous**
 64. *Pocononia whitei* (Ewing, 1930)* C Pocono Shales
- † **Somaspidion** Jux, 1982 **Carboniferous**
 65. *Somaspidion hammapheron* Jux, 1982* C Dinslaken
- † **Stenotrogulus** Frič, 1904 **Carboniferous**
 = † *Cyclotrogulus* Frič, 1904
 = † *Pseudoeophrynus* Příbyl, 1958
 66. *Stenotrogulus salmii* (Stur, 1877)* C Ostrava
 i. = *Cyclotrogulus sturii* Frič, 1904 [*non* Hasse, 1890] C Ostrava
 ii. = *Pseudoeophrynus ostraviensis* Příbyl, 1958 C Ostrava
- TRIGONOTARBIDA *incertae sedis*
- † **Anthracophrynus** Andrée, 1913 **Carboniferous**
 67. *Anthracophrynus tuberculatus* Andrée, 1913* C Dudweiler
- † **Areomartus** Petrunkevitch, 1913 **Carboniferous**
 68. *Areomartus ovatus* Petrunkevitch, 1913* C West Virginia
- † **'Eophrynus'**
 69. *'Eophrynus' scharfi* Scharf, 1924 P Rotliegend
- † **Aphantomartus** Pocock, 1911 **Carboniferous**
 70. *Aphantomartus woodruffi* (Scudder, 1893) C Rhode Island
 [*as Trigonomartus*]
- NOMINA DUBIA
1. *Anthracomartus buchi* (Goldenberg, 1873) C Saarbrücken
 2. *Anthracomartus hageni* (Goldenberg, 1873) C Saarbrücken
 3. *Elaverimartus pococki* Petrunkevitch, 1953 C Ellismuir
 i. = *Palaeophalangium Scoticum* Peach *in* Murdoch, 1893 [*nomen nudum*]
 4. *Eurymartus latus* Matthew, 1895 C Fern Ledges
 5. ?*Eurymartus spinulosus* Matthew, 1895 C Fern Ledges

no Recent species

URARANEIDA

2 currently valid species of uraraneid

- The uraraneids were previously interpreted as true spiders (Araneae), but are now thought to be a more basal lineage which produced silk but lacked spinnerets.
- Wunderlich (2015*b*) suggested that Uraraneida should be treated as suborder of Araneae, alongside an Araneida group for all true spiders.

† **URARANEIDA Selden & Shear *in* Selden *et al.*, 2008** Devonian – Permian

FAMILY UNCERTAIN

† ***Attercopus* Selden & Shear *in* Selden *et al.* (1991)** Devonian

1. *Attercopus fimbriunguis* (Shear, Selden & Rolfe, 1987)* D Gilboa, New York

† **PERMARACHNIDAE Eskov & Selden, 2005** Permian

† ***Permarachne* Eskov & Selden, 2005** Permian

2. *Permarachne novokshonovi* Eskov & Selden, 2005* P Matveyevka

ARANEAE

1,347 currently valid species of fossil spider

ARANEAE Clerck, 1757	Carbon. – Recent
† <i>Chimerarachne</i> Wang <i>et al.</i>, 2018	Cretaceous
1. <i>Chimerarachne yingi</i> Wang <i>et al.</i> , 2018*	K Burmese amber
NB: While Wang <i>et al.</i> (2018) suggested this is a basal spider with a tail, a companion paper by Huang <i>et al.</i> (2018) resolved it closer to the uraraneids.	
‘mesotheles’	Carbon. – Recent
† ARTHROLYCOSIDAE Frič, 1904	Carboniferous
† <i>Arthrolycosa</i> Harger, 1874	Carbon. – Permian
2. <i>Arthrolycosa antiqua</i> Harger, 1874*	C Mazon Creek
3. <i>Arthrolycosa danielsi</i> Petrunkevitch, 1913	C Mazon Creek
<i>Arthrolycosa</i> sp. in Eskov & Selden (2005)	P Kityak river
<i>Arthrolycosa</i> sp. in Selden <i>et al.</i> (2014)	C Chunya, Russia
<i>Arthrolycosa</i> sp. in Selden <i>et al.</i> (2014)	C Donets Basin
† <i>Eocteniza</i> Pocock, 1911	Carboniferous
4. <i>Eocteniza silvicola</i> Pocock, 1911*	C Coseley
† ARTHROMYGALIDAE Petrunkevitch, 1923	Carboniferous
† <i>Arthromygale</i> Petrunkevitch, 1923	Carboniferous
5. <i>Arthromygale fortis</i> (Frič, 1904)*	C Rakovník
i. = <i>Arthrolycosa beecheri</i> Frič, 1904	C Rakovník
† <i>Eolycosa</i> Kušta, 1885	Carboniferous
6. <i>Eolycosa lorenzi</i> Kušta, 1885*	C Rakovník
† <i>Gerallycosa</i> Kušta, 1888	Carboniferous
7. <i>Gerallycosa fritschi</i> Kušta, 1888*	C Rakovník
† <i>Kustaria</i> Petrunkevitch, 1953	Carboniferous
= † <i>Scudderia</i> Kušta, 1888 [preoccupied]	
8. <i>Kustaria carbonaria</i> (Kušta, 1888)*	C Rakovník
† <i>Palaranea</i> Frič, 1873	Carboniferous
9. <i>Palaranea borassifoliae</i> Frič, 1873*	C Czech Republic
† <i>Protocteniza</i> Petrunkevitch, 1949	Carboniferous
10. <i>Protocteniza britannica</i> Petrunkevitch, 1949*	C Coseley
† <i>Protolycosa</i> Roemer, 1866	Carboniferous
11. <i>Protolycosa anthracophilia</i> Roemer, 1866*	C Silesia
12. <i>Protolycosa cebennensis</i> Laurentiaux-Viera & Laurentiaux, 1963	C Cévennes, France

- † **Rakovnicia Kušta, 1884a** **Carboniferous**
 13. *Rakovnicia antiqua* Kušta, 1884a* C Rakovník
- † **PYRITARANEIDAE Petrunkevitch, 1953** **Carboniferous**
- † **Dinopilio Frič, 1904** **Carboniferous**
 14. *Dinopilio gigas* Frič, 1904* C Rakovník
 15. *Dinopilo parvus* Petrunkevitch, 1953 C Kent, UK
- † **Pyritaranea Frič, 1901** **Carboniferous**
 16. *Pyritaranea tubifera* Frič, 1901* C Nýřany
- MESOTHELAE Pocock, 1892** **Carbon. – Recent**
 Mesothelae indet. in Wunderlich (2017c) K Burmese amber
 plesion genus
- † **Palaeothele Selden, 2000** **Carboniferous**
 = † *Eothele* Selden, 1996 [preoccupied]
 17. *Palaeothele montceauensis* (Selden, 1996)* C Montceau-les-Mines
- † **BURMATHELIDAE Wunderlich, 2017c** **Cretaceous**
- † **Burmathele Wunderlich, 2015b** **Cretaceous**
 18. *Burmathele biseriata* Wunderlich, 2017c* K Burmese amber
Burmathele sp. indet. in Wunderlich (2017c) K Burmese amber
- † **CRETACEOTHELIDAE Wunderlich, 2017c** **Cretaceous**
- † **Cretaceothele Wunderlich, 2015b** **Cretaceous**
 19. *Cretaceothele lata* Wunderlich, 2015b* K Burmese amber
- † **PARVITHELIDAE Wunderlich, 2017c** **Cretaceous**
- † **Parvithеле Wunderlich, 2017c** **Cretaceous**
 20. *Parvithеле muelleri* Wunderlich, 2017c* K Burmese amber
 21. *Parvithеле spinipes* Wunderlich, 2017c K Burmese amber
- † **Pulvillothele Wunderlich, 2017c** **Cretaceous**
 22. *Pulvillothele haupti* Wunderlich, 2017c* K Burmese amber
- LIPHISTIIDAE Pocock, 1892** **Recent**
 = HEPTATHELIDAE Haupt, 1983
 no fossil record
- OPISTHOTHELAE Pocock, 1892** **Triassic – Recent**
 Opisthotelae *incertae sedis*
- † **Eoatypus McCook, 1888** **Palaeogene**
 23. *Eoatypus woodwardii* McCook, 1888* Pa Isle of Wight

MYGALOMORPHAE Pocock, 1892	Triassic – Recent
Mygalomorpha indet. 1–3 <i>in</i> Wunderlich (2008 <i>d</i>)	K Burmese amber
Mygalomorpha indet. 1–2 <i>in</i> Wunderlich (2015 <i>b</i>)	K Burmese amber
Mygalomorpha indet. 1–2 <i>in</i> Wunderlich (2017 <i>c</i>)	K Burmese amber
ATYPOIDEA Thorell, 1870a	Triassic – Recent
† <i>Friularachne</i> Dalla Vecchia & Selden, 2013	Triassic
24. <i>Friularachne rigoi</i> Dalla Vecchia & Selden, 2013*	Tr Friurli, Italy
ATYPIDAE Thorell, 1870a	Cretaceous – Recent
= CALOMMATOIDAE Thorell, 1887	
?Atypidae indet. <i>in</i> Wunderlich, 2015 <i>b</i>	K Burmese amber
† <i>Ambiortiphagus</i> Eskov & Zonstein, 1990	Cretaceous
25. <i>Ambiortiphagus ponomarenkoi</i> Eskov & Zonstein, 1990*	K Central Mongolia
† <i>Balticatypus</i> Wunderlich, 2011<i>h</i>	Palaeogene
26. <i>Balticatypus beigeli</i> Wunderlich, 2011 <i>h</i>	Pa Baltic amber
27. <i>Balticatypus juvenis</i> Wunderlich, 2011 <i>h</i> *	Pa Baltic amber
28. <i>Balticatypus spinosus</i> Wunderlich, 2011 <i>h</i>	Pa Baltic amber
ANTRODIAETIDAE Gertsch <i>in</i> Comstock, 1940	Cretaceous – Recent
= BRACHYBOTHRIDAE Simon, 1892	
= ACCATYMIDAE Kishida, 1930	
† <i>Cretacattyma</i> Eskov & Zonstein, 1990	Cretaceous
29. <i>Cretacattyma raveni</i> Eskov & Zonstein, 1990*	K Central Mongolia
MECICOBOTHRIIDAE Holmberg, 1882	Cretaceous – Recent
= HEXURIDAE Simon, 1889 <i>b</i>	
† <i>Cretohexura</i> Eskov & Zonstein, 1990	Cretaceous
30. <i>Cretohexura coylei</i> Eskov & Zonstein, 1990*	K Transbaikalia
† <i>Cretomegahexura</i> Eskov & Zonstein, 1990	Cretaceous
31. <i>Cretomegahexura platnicki</i> Eskov & Zonstein, 1990*	K Central Mongolia
AVICULAROIDEA Author, date	Triassic – Recent
DIPLURIDAE Simon, 1889<i>b</i>	Triassic – Recent
Dipluridae sp. 1–3 <i>in</i> Wunderlich (2004 <i>a</i>)	Pa Baltic amber
Dipluridae sp. <i>in</i> Wunderlich (2004 <i>a</i>)	Ne Dominican amber
Dipluridae indet. <i>in</i> Wunderlich (2012 <i>d</i>)	K Burmese amber
Dipluridae indet. <i>in</i> Wunderlich (2015 <i>b</i>)	K Burmese amber
† <i>Cethegoides</i> Wunderlich, 2017<i>c</i>	Cretaceous
32. <i>Cethegoides patricki</i> Wunderlich, 2017 <i>c</i> *	Pa Baltic / Bitt. amber
† <i>Clostes</i> Menge, 1869	Palaeogene
33. <i>Clostes priscus</i> Menge, 1869*	Pa Baltic / Bitt. amber
† <i>Cretadiplura</i> Selden <i>in</i> Selden <i>et al.</i>, 2006	Cretaceous

34. <i>Cretadiplura ceara</i> Selden <i>in</i> Selden <i>et al.</i> , 2006*	K Crato Formation
† <i>Dinodiplura</i> Selden <i>in</i> Selden <i>et al.</i>, 2006	Cretaceous
35. <i>Dinodiplura ambulacra</i> Selden <i>in</i> Selden <i>et al.</i> , 2006*	K Crato Formation
† Edwa Raven, Jell & Knezour, 2015	Triassic
36. <i>Edwa maryae</i> Raven, Jell & Knezour, 2015*	Tr Qnsld., Australia
<i>Ischnothele</i> Ausserer, 1875	?Neogene – Recent
? <i>Ischnothele</i> sp. <i>in</i> Wunderlich (1988)	Ne Dominican amber
<i>Masteria</i> L. Koch, 1873	Neogene – Recent
= † <i>Microsteria</i> Wunderlich, 1988	
37. <i>Masteria sexoculata</i> (Wunderlich, 1988)	Ne Dominican amber
? <i>Masteria</i> sp. <i>in</i> Schawaller (1982c: as ? <i>Ischnothele</i>)	Ne Dominican amber
† <i>Phyxioschemoides</i> Wunderlich, 2015b	Cretaceous
38. <i>Phyxioschemoides collembola</i> Wunderlich, 2015b*	K Burmese amber
† <i>Seldischnoplura</i> Raven, Jell & Knezour, 2015	Cretaceous
39. <i>Seldischnoplura seldeni</i> Raven, Jell & Knezour, 2015*	K Crato Formation
† FOSSILCALCARIDAE Wunderlich, 2015b	Cretaceous
† <i>Fossilcalcar</i> Wunderlich, 2015b	Cretaceous
40. <i>Fossilcalcar praeteritus</i> Wunderlich, 2015b*	K Burmese amber
HEXATHELIDAE Simon, 1892b	Triassic – Recent
† <i>Alioatrx</i> Wunderlich, 2017c	Cretaceous
41. <i>Alioatrx incertus</i> Wunderlich, 2017c*	K Burmese amber
† <i>Rosamygale</i> Selden & Gall, 1992	Triassic
42. <i>Rosamygale grauvogeli</i> Selden & Gall, 1992*	Tr Vosges, France
CTENIZIDAE Thorell, 1887	Palaeogene – Recent
= HALONOPROCTIDAE Pocock, 1903	
† <i>Baltocteniza</i> Eskov & Zonstein, 2000	Palaeogene
43. <i>Baltocteniza kulickae</i> Eskov & Zonstein, 2000	Pa Baltic amber
† <i>Electrocteniza</i> Eskov & Zonstein, 2000	Palaeogene
44. <i>Electrocteniza sadilenkoi</i> Eskov & Zonstein, 2000	Pa Baltic amber
<i>Ummidia</i> Thorell, 1875	Palaeogene – Recent
45. <i>Ummidia damzeni</i> Wunderlich, 2000	Pa Baltic amber
46. <i>Ummidia malinowskii</i> Wunderlich, 2000	Pa Baltic amber
<i>Ummidia</i> sp. <i>in</i> Wunderlich (2004a)	Pa Baltic amber
? <i>Ummidia</i> sp. <i>in</i> Wunderlich (2011h)	Pa Baltic amber
EUCTENIZIDAE Raven, 1985	Recent
no fossil record	
CYRTAUCHENIIDAE Simon, 1892b	Neogene – Recent

- Bolostromus* Ausserer, 1875** **Neogene – Recent**
 47. *Bolostromus destructus* Wunderlich, 1988 Ne Dominican amber
- BARYCHELIDAE Simon, 1889b** **Neogene – Recent**
***Psalistops* Simon, 1889b** **Neogene – Recent**
 48. *Psalistops hispaniolensis* Wunderlich, 1988* Ne Dominican amber
- THERAPHOSIDAE Thorell, 1870a** **Neogene – Recent**
 = AVICULARIIDAE Simon, 1874
Theraphosidae gen. et sp. indet. in Dunlop *et al.* (2008) Ne Chiapas amber
- Hemirraghus* Simon, 1903** **Neogene – Recent**
Hemirraghus sp. in García-Villafuerte (2008) Ne Chiapas amber
- † ***Ischnocolinopsis* Wunderlich, 1988** **Neogene**
 49. *Ischnocolinopsis acutus* Wunderlich, 1988* Ne Dominican amber
- NEMESIIDAE Simon, 1892b** **Cretaceous – Recent**
 = PYCNOTHELIDAE Chamberlin, 1917
- † ***Cretamygale* Selden, 2002** **Cretaceous**
 50. *Cretamygale chasei* Selden, 2002* K Isle of Wight
- † ***Eodiplurina* Petrunkevitch, 1922** **Palaeogene**
 [NB: Selden (2001) questioned this familial placement based on claw structure]
 51. *Eodiplurina cockerelli* Petrunkevitch, 1922* Pa Florissant
- MICROSTIGMATIDAE Roewer, 1942** **Neogene – Recent**
 = MICROMYGALIDAE Wunderlich, 2004b
- † ***Parvomygale* Wunderlich, 2004b** **Neogene**
 52. *Parvomygale distincta* Wunderlich, 2004b* Ne Dominican amber
- ACTINOPODIDAE Simon, 1892b** **Recent**
 = ERIODONTIDAE C. L. Koch & Berendt, 1854
 [based on a generic synonym; listed in Bonnet as syn. of Clubionidae!]
 no fossil record
- MIGIDAE Simon, 1892b** **Recent**
 no fossil record
- PARATROPIDIDAE Simon, 1889a** **Recent**
 no fossil record
- IDIOPIDAE Simon, 1892b** **Recent**
 no fossil record

ARANEOMORPHAE Smith, 1902	Triassic – Recent
ARANEOMORPHAE indet.	
† <i>Argyrahne</i> Selden in Selden et al., 1999	Triassic
53. <i>Argyrahne solitus</i> Selden in Selden et al., 1999*	Tr Virginia
† <i>Triassaraneus</i> Selden in Selden et al., 1999	Triassic
54. <i>Triassaraneus andersonorum</i> Selden in Selden et al., 1999*	Tr KwaZulu-Natal
HYPOCHILIDAE Marx, 1888	Recent
= ECTATOSTICTIDAE Lehtinen, 1967	
no fossil record	
FILISTATIDAE Ausserer, 1867	Neogene – Recent
<i>Misionella</i> Ramírez & Grismado, 1997	Neogene – Recent
55. <i>Misionella didicostae</i> Penney, 2005a	Ne Dominican amber
56. <i>Nops lobatus</i> Wunderlich, 1988	Ne Dominican amber
SYNSPERMIATA Author, date	Triassic – Recent
TROGLORAPTORIDAE Griswold, Audisio & Ledford, 2012	Recent
no fossil record	
CAPONIIDAE Simon, 1890	Neogene – Recent
= COLOPHONIDAE O. P.-Cambridge, 1874 [based on a generic homonym]	
<i>Nops</i> MacLeay, 1839	Neogene – Recent
<i>Nops</i> sp. in Wunderlich (1988)	Ne Dominican amber
57. <i>Nops lobatus</i> Wunderlich, 1988	Ne Dominican amber
58. <i>Ariadna copalis</i> Wunderlich, 2008a	Qt ?Madagascan copal
i. = <i>Nops segmentatus</i> Wunderlich, 1988	Ne Dominican amber
DYSDEROIDEA Bristowe, 1938	Cretaceous – Recent
?Dysderoidea s. l. indet 1–2 in Wunderlich (2008d)	K Burmese amber
SEGESTRIIDAE Simon, 1893	Cretaceous – Recent
?Segestriidae indet in Wunderlich (2008d)	K Burmese amber
<i>Ariadna</i> Audouin, 1826	Cretaceous – Recent
59. <i>Ariadna copalis</i> Wunderlich, 2008a	Qt ?Madagascan copal
60. <i>Ariadna copalis</i> Wunderlich, 2008a	Qt ?Madagascan copal
61. <i>Ariadna defuncta</i> Wunderlich, 2004c	Pa Bitterfeld amber
62. <i>Ariadna hintzei</i> Wunderlich, 2004as	Qt Madagascan copal
63. <i>Ariadna ovalis</i> Wunderlich, 2008a	Pa Baltic amber
64. <i>Ariadna parva</i> Wunderlich, 2008a	Pa Baltic amber
65. <i>Ariadna paucispinosa</i> Wunderlich, 1988	Ne Dominican amber
66. <i>Ariadna resinae</i> Hickman, 1957	Ne? Australian copal
? <i>Ariadna</i> sp. in Wunderlich (1988)	Ne Dominican amber

† <i>Denticulsegestia</i> Wunderlich, 2015b	Cretaceous
67. <i>Denticulsegestia rugosa</i> Wunderlich, 2015b*.....	K Burmese Amber
† <i>Jordariadna</i> Wunderlich, 2015b	Cretaceous
68. <i>Jordanariadna amissiocoli</i> (Wunderlich, 2008d)*.....	K Jordanian Amber
† <i>Jordansegestia</i> Wunderlich 2015b	Cretaceous
69. <i>Jordansegestia detruneo</i> Wunderlich, 2015b*.....	K Jordanian Amber
† <i>Lebansegestia</i> Wunderlich, 2008d	Cretaceous
70. <i>Lebansegestia azari</i> Wunderlich, 2008d*.....	K Lebanese amber
† <i>Microsegestia</i> Wunderlich & Milki, 2004	Cretaceous
71. <i>Microsegestia poinari</i> Wunderlich & Milki, 2004*.....	K Lebanese amber
† <i>Myansegestia</i> Wunderlich, 2015b	Cretaceous
72. <i>Myansegestia caederens</i> Wunderlich 2015b.....	K Burmese Amber
73. <i>Myansegestia engin</i> Wunderlich, 2015b*.....	K Burmese Amber
† <i>Palaeosegestria</i> Penney, 2004a	Cretaceous
74. <i>Palaeosegestria lutzii</i> Penney, 2004a*.....	K New Jersey amber
† <i>Parvosegestria</i> Wunderlich, 2015b	Cretaceous
75. <i>Parvosegestria longitibialis</i> Wunderlich, 2015b.....	K Burmese Amber
76. <i>Parvosegestria obscura</i> Wunderlich, 2015b*.....	K Burmese Amber
77. <i>Parvosegestria pintgu</i> Wunderlich, 2015b.....	K Burmese Amber
78. <i>Parvosegestria triplex</i> Wunderlich, 2015b.....	K Burmese Amber
<i>Segestria</i> Latreille, 1804a	Cretaceous – Recent
79. <i>Segestria cristata</i> Menge in C. L. Koch & Berendt, 1854.....	Pa Baltic amber
80. <i>Segestria flexio</i> Wunderlich, 2004c.....	Pa Baltic amber
81. <i>Segestria mortalis</i> Wunderlich 2004c.....	Pa Baltic amber
82. <i>Segestria plicata</i> Petrunkevitch, 1950.....	Pa Baltic amber
83. <i>Segestria scudderi</i> Petrunkevitch, 1922.....	Pa Florissant
84. <i>Segestria secessa</i> Scudder, 1890a.....	Pa Florissant
85. <i>Segestria succinei</i> Berland, 1939.....	Pa Baltic amber
86. <i>Segestria tomentosa</i> C. L. Koch & Berendt, 1854.....	Pa Baltic amber
ii. = <i>Segestria plicata</i> Petrunkevitch, 1950 [provisional]	Pa Baltic amber
<i>Segestria</i> sp. in Penney (2002).....	K New Jersey amber
<i>Segestria</i> sp. in Wunderlich (2004c).....	Pa Baltic amber
<i>Segestria</i> sp. in Selden (2014b).....	Pa Isle of Wight
† <i>Vetsegestia</i> Wunderlich, 2004c	Palaeogene
87. <i>Vetsegestia quinquespinosa</i> Wunderlich, 2004c*.....	Pa Baltic / Bitter. Amber
OONOPIDAE Simon, 1890	Cretaceous – Recent
Oonopidae gen. et sp. in Penney (2002).....	K New Jersey amber
† <i>Burmorchestina</i> Wunderlich, 2008a	Cretaceous
88. <i>Burmorchestina acuminata</i> Wunderlich, 2017c.....	K Burmese amber
89. <i>Burmorchestina biangulata</i> Wunderlich, 2017c.....	K Burmese amber

90. <i>Burmorchestina plana</i> Wunderlich, 2017c	K Burmese amber
91. <i>Burmorchestina pulcher</i> Wunderlich, 2008a*	K Burmese amber
92. <i>Burmorchestina pulcheroides</i> Wunderlich, 2017c	K Burmese amber
93. <i>Burmorchestina tuberosa</i> Wunderlich, 2017c	K Burmese amber
<i>Burmorchestina</i> sp. indet. in Wunderlich (2017c)	K Burmese amber
† Canadaorchestina Wunderlich, 2008a	Cretaceous
94. <i>Canadaorchestina albertensis</i> (Penney, 2006a)*	K Canadian amber
† Fossilopaea Wunderlich, 1988	Neogene
95. <i>Fossilopaea sulci</i> Wunderlich, 1988*	Ne Dominican amber
Heteroonops Dalmas, 1916	Neogene – Recent
<i>Heteroonops</i> sp. in Wunderlich (1988)	Ne Dominican amber
Opopaea Simon, 1891	?Neogene – Recent
? <i>Opopaea</i> sp. in Wunderlich (1988)	Ne Dominican amber
Orchestina Simon, 1882	Cretaceous – Recent
96. <i>Orchestina (Baltorchestina) angulata</i> Wunderlich, 2012f [replacement name]	Pa Bitterfeld amber
iii. = <i>Orchestina (B.) rectangulata</i> Wunderlich, 2011h [preoccupied]	
97. <i>Orchestina baltica</i> Petrunkevitch, 1942	Pa Baltic amber
98. <i>Orchestina (Baltorchestina) bitterfeldensis</i> Wunderlich, 2008a	Pa Bitterfeld amber
99. <i>Orchestina breviembolus</i> Wunderlich, 1981	Pa Baltic amber
100. <i>Orchestina (Baltorchestina) brevis</i> Wunderlich, 2008a	Pa Baltic / Bitter. Amber
101. <i>Orchestina crassiembolus</i> Wunderlich, 1981	Pa Baltic amber
102. <i>Orchestina (Baltorchestina) crassipatellaris</i> Wunderlich, 1981	Pa Baltic amber
103. <i>Orchestina (Baltorchestina) crassitibialis</i> Wunderlich, 1981	Pa Baltic amber
104. <i>Orchestina (Baltorchestina) colchembolus</i> Wunderlich, 1981	Pa Baltic amber
105. <i>Orchestina colombiensis</i> Wunderlich, 2004at	Qt Colombian copal
106. <i>Orchestina dominicana</i> Wunderlich, 1981	Ne Dominican amber
107. <i>Orchestina forceps</i> Wunderlich, 1981	Pa Baltic amber
108. <i>Orchestina (Baltorchestina) forfex</i> Wunderlich, 2011h	Pa Baltic amber
109. <i>Orchestina (Baltorchestina) furca</i> Wunderlich, 1981	Pa Baltic amber
110. <i>Orchestina fushunensis</i> Wunderlich, 2004au	Pa Fu Shun amber
111. <i>Orchestina gappi</i> Saupe et al., 2012	K Archingeay amber
112. <i>Orchestina gracilitibialis</i> Wunderlich, 2004c	Pa Baltic amber
113. <i>Orchestina (Baltorchestina) imperialis</i> Wunderlich, 1981	Pa Baltic amber
114. <i>Orchestina kenyana</i> Wunderlich, 1981	Qt East African copal
115. <i>Orchestina longimana</i> Wunderlich, 1981	Qt East African copal
116. <i>Orchestina madagascariensis</i> Wunderlich, 2004as	Qt Madagascar copal
117. <i>Orchestina mortua</i> Petrunkevitch, 1971	Ne Chiapas amber
118. <i>Orchestina (Baltorchestina) multisetae</i> Wunderlich, 2008a	Pa Baltic amber
119. <i>Orchestina (Gallorchestina) parisiensis</i> Penney, 2007b	Pa Le Quesnoy amber
120. <i>Orchestina (Baltorchestina) perfecta</i> Wunderlich, 2008a	Pa Baltic amber

121. <i>Orchestina pusilla</i> (Menge in C. L. Koch & Berendt, 1854)	Pa Baltic amber
122. <i>Orchestina rabagensis</i> Saupe et al., 2012	K El Soplao amber
123. <i>Orchestina (Baltorchestina) rectangulata</i> Wunderlich, 2008a	Pa Baltic amber
124. <i>Orchestina (Baltorchestina) sternalis</i> Wunderlich, 2008a	Pa Baltic amber
125. <i>Orchestina tibialis</i> Wunderlich, 1988	Ne Dominican amber
126. <i>Orchestina truncata</i> Wunderlich, 2004at	Qt Colombian copal
127. <i>Orchestina tuberosa</i> Wunderlich, 1981	Pa Baltic amber
<i>Orchestina</i> sp. in Nishikawa (1974)	Qt Mizunami copal
<i>Orchestina</i> sp. in Penney (2006)	K Burmese amber
<i>Orchestina</i> sp. in Saupe et al. (2012)	K Álava amber
<i>Orchestina</i> sp. in Soriano et al. (2010)	K San Just amber
<i>Orchestina</i> sp. in Wunderlich (2011h)	Pa Bitterfeld amber
Stenoonops Simon, 1891	Palaeogene – Recent
128. <i>Stenoonops incertus</i> (Wunderlich, 1988)	Ne Dominican amber
129. ? <i>Stenoonops rugosus</i> Wunderlich, 2004c	Pa Bitterfeld amber
130. <i>Stenoonops seldeni</i> (Penney, 2000)	Ne Dominican amber
ORSOLOBIDAE Cooke, 1965	Recent
no fossil record	
† PLUMORSOLIDAE Wunderlich, 2008d	Cretaceous
?Plumorsolidae indet. in Wunderlich (2008d)	K Burmese amber
?Plumorsolidae indet. in Wunderlich (2011i)	K Burmese amber
† Burmorsolus Wunderlich, 2015b	Cretaceous
131. <i>Burmorsolus nonplumosus</i> Wunderlich, 2015b*	K Burmese amber
<i>Burmorsolus</i> sp. indet. in Wunderlich (2015b)	K Burmese amber
† Plumorsolus Wunderlich, 2008d	Cretaceous
132. <i>Plumorsolus gondwanensis</i> Wunderlich, 2008d	K Lebanese amber
† Pseudorsolus Wunderlich, 2017c	Cretaceous
133. <i>Pseudorsolus crassus</i> (Wunderlich, 2015b)*	K Burmese amber
DYSDERIDAE C. L. Koch, 1837	Palaeogene – Recent
† Dasumiana Wunderlich, 2004c	Palaeogene
134. <i>Dasumiana emicans</i> Wunderlich, 2004c*	Pa Baltic amber
135. ? <i>Dasumiana subita</i> (Petrunkevitch, 1958)	Pa Baltic amber
136. <i>Dasumiana valga</i> Wunderlich, 2004c	Pa Baltic amber
Dysdera Latreille, 1804	Palaeogene – Recent
137. <i>Dysdera dilatata</i> Zhang, Sun & Zhang, 1994	Ne Shanwang
Harpactea Bristowe, 1939	Palaeogene – Recent
138. <i>Harpactea communis</i> Wunderlich, 2004c	Pa Baltic amber
139. <i>Harpactea extincta</i> Petrunkevitch, 1950	Pa Baltic amber
140. <i>Harpactea hombergi</i> (Scopoli, 1763) [Recent]	Qt England

141. <i>Harpactea longibulbus</i> Wunderlich, 2011 <i>h</i>	Pa Baltic amber
142. <i>Harpactea tersa</i> (C. L. Koch & Berendt, 1854) [provisional transfer]	Pa Baltic amber
<i>Harpactea</i> sp. in Wunderlich (2011 <i>h</i>)	Pa Bitterfeld amber
† Segistriites Straus, 1967	Neogene
143. <i>Segistriites cromei</i> Straus, 1967*	Ne Willershausen
Dysderidae?	
† Mistura Petrunkevitch, 1971	Neogene
144. <i>Mistura perplexa</i> Petrunkevitch, 1971*	Ne Chiapas amber
SCYTODOIDEA Blackwall, 1864	Cretaceous – Recent
SICARIIDAE Keyserling, 1880 <i>a</i>	Neogene – Recent
= LOXOSCELIDAE Simon, 1893	
Loxosceles Heineken & Lowe, 1832	Neogene – Recent
145. <i>Loxosceles aculicaput</i> Wunderlich, 2004 <i>c</i>	Ne Dominican amber
146. <i>Loxosceles defecta</i> Wunderlich, 1988	Ne Dominican amber
147. <i>Loxosceles deformis</i> Wunderlich, 1988	Ne Dominican amber
<i>Loxosceles</i> sp. in Wunderlich (1988)	Ne Dominican amber
DRYMUSIDAE Simon, 1893.....	Recent
no fossil record	
PERIEGOPIIDAE Simon, 1893	Recent
no fossil record	
OCHYROCERATIDAE Fage, 1912 s. l. [incl. PSILODERCINAE].....	Cretaceous – Recent
NB: Wunderlich (2015 <i>b</i> , 2017 <i>c</i>) recognised Psilodercidae as a distinct family.	
?Epsilodercidae indet. 1–3 in Wunderlich (2008 <i>d</i>)	K Burmese amber
† Aculeatosoma Wunderlich, 2017 <i>c</i>	Cretaceous
148. <i>Aculeatosoma pyritmutatio</i> Wunderlich, 2017 <i>c</i>	K Burmese amber
† Arachnolithulus Wunderlich, 1988	Neogene
149. <i>Arachnolithulus longipes</i> Wunderlich, 2004 <i>c</i>	Ne Dominican amber
150. <i>Arachnolithulus pygmaeus</i> Wunderlich, 1988*	Ne Dominican amber
? <i>Arachnolithulus</i> sp. in Wunderlich (1988)	Ne Dominican amber
† Priscaleclercera Wunderlich, 2017 <i>c</i>	Cretaceous
151. <i>Priscaleclercera brevispinae</i> Wunderlich, 2017 <i>c</i>	K Burmese amber
152. <i>Priscaleclercera ellenbergeri</i> Wunderlich, 2015 <i>b</i> *	K Burmese amber
153. <i>Priscaleclercera longispipes</i> (Wunderlich, 2012 <i>d</i>)	K Burmese amber
154. <i>Priscaleclercera paucispinae</i> Wunderlich, 2017 <i>c</i>	K Burmese amber
155. <i>Priscaleclercera sexaculeata</i> (Wunderlich, 2015 <i>b</i>).....	K Burmese amber
156. <i>Priscaleclercera spicula</i> (Wunderlich, 2012 <i>d</i>)	K Burmese amber

<i>Priscaleclercera</i> sp. indet. <i>in</i> (Wunderlich, 2015 <i>b</i>)	K	Burmese amber
<i>Priscaleclercera</i> sp. indet. <i>in</i> (Wunderlich, 2017 <i>c</i>)	K	Burmese amber
† Propterpsiloderces Wunderlich, 2015<i>b</i>		Cretaceous
157. <i>Propterpsiloderces longisetae</i> Wunderlich, 2015 <i>b</i> *	K	Burmese amber
† EOPSILODERCIDAE Wunderlich, 2008<i>d</i>		
NB: Wunderlich (2012 <i>d</i>) recognised this as a junior synonym of a family Psilodercidae, but Wunderlich (2015 <i>b</i>) subsequently reinstated the family		
† Eopsiloderces Wunderlich, 2008<i>d</i>		Cretaceous
158. <i>Eopsiloderces filiformis</i> (Wunderlich, 2012 <i>d</i>)	K	Burmese amber
159. <i>Eopsiloderces loxosceloides</i> Wunderlich, 2008 <i>d</i> *	K	Burmese amber
160. <i>Eopsiloderces serenitas</i> Wunderlich, 2015 <i>b</i>	K	Burmese amber
<i>Eopsiloderces</i> sp. indet. <i>in</i> Wunderlich (2015 <i>b</i>)	K	Burmese amber
† Loxoderces Wunderlich, 2017<i>c</i>		Cretaceous
161. <i>Loxoderces curvatus</i> Wunderlich, 2017 <i>c</i>	K	Burmese amber
162. <i>Loxoderces longicymbium</i> Wunderlich, 2017 <i>c</i> *	K	Burmese amber
163. <i>Loxoderces rectus</i> Wunderlich, 2017 <i>c</i>	K	Burmese amber
† Praepholcus Wunderlich, 2017<i>c</i>		Cretaceous
164. <i>Praepholcus huberi</i> Wunderlich, 2017 <i>c</i> *	K	Burmese amber
SCYTODIDAE Blackwall, 1864		Cretaceous – Recent
Syctodidae sp. 1–2 <i>in</i> Wunderlich (2004 <i>b</i>)	Pa	Bitterfeld amber
Scytodes Latreille, 1804<i>a</i>		?Cretaceous – Recent
165. ? <i>Scytodes hani</i> Wunderlich, 2012 <i>d</i>	K	Jordanian amber
166. <i>Scytodes marginalis</i> Wunderlich, 2004 <i>as</i>	Qt	Madagascan copal
167. <i>Scytodes piliformis</i> Wunderlich, 1988	Ne	Dominican amber
168. <i>Scytodes planithorax</i> Wunderlich, 1988	Ne	Dominican amber
169. <i>Scytodes stridulans</i> Wunderlich, 1988	Ne	Dominican amber
170. <i>Scytodes weitschati</i> Wunderlich, 1993 <i>a</i>	Pa	Baltic amber
<i>Scytodes</i> sp. <i>in</i> Wunderlich (1988)	Ne	Dominican amber
<i>Scytodes</i> sp. <i>in</i> Wunderlich (2011 <i>h</i>)	Pa	Baltic amber
LOST TRACHEA CLADE		
TETRABLEMMIDAE O. P.-Cambridge, 1873		Cretaceous – Recent
= PHAEDOMOIDAE Thorell, 1890 [based on a generic homonym]		
= PACULLIDAE Simon, 1894		
Tetramblemmidae gen. indet. <i>in</i> Wunderlich (2012 <i>d</i>)	K	Burmese amber
Tetramblemmidae ?gen. sp. indet. <i>in</i> Wunderlich, 2015 <i>b</i>	K	Burmese amber
Tetramblemmidae indet. <i>in</i> Wunderlich, 2017 <i>c</i>	K	Burmese amber
† Balticoblemma Wunderlich, 2004<i>c</i>		Palaeogene
171. <i>Balticoblemma unicorniculum</i> Wunderlich, 2004 <i>c</i> *	Pa	Baltic amber
† Bicornoculus Wunderlich, 2015<i>b</i>		Cretaceous

172. <i>Bicornoculus levis</i> Wunderlich, 2015b*	K Burmese amber
? <i>Bicornoculus</i> sp. in Wunderlich, 2015b	K Burmese amber
† Brignoliblemma Wunderlich, 2017c	Cretaceous
173. <i>Brignoliblemma bizarre</i> Wunderlich, 2017c	K Burmese amber
174. <i>Brignoliblemma nala</i> Wunderlich, 2017c*	K Burmese amber
175. <i>Brignoliblemma paranala</i> Wunderlich, 2017c	K Burmese amber
† Cymbioblemma Wunderlich, 2017c	Cretaceous
176. <i>Cymbioblemma corniger</i> Wunderlich, 2017c*	K Burmese amber
† Electroblemma Selden, Zhang & Ren, 2016	Cretaceous
177. <i>Electroblemma bifida</i> Selden, Zhang & Ren, 2016*	K Burmese amber
† Eogamasomorpha Wunderlich, 2008d	Cretaceous
= † <i>Eoscaphiella</i> Wunderlich, 2011i	
178. ? <i>Eogamasomorpha clara</i> Wunderlich, 2015b	K Burmese amber
179. <i>Eogamasomorpha hamata</i> Wunderlich, 2017c	K Burmese amber
180. <i>Eogamasomorpha nubila</i> Wunderlich, 2008d*	K Burmese amber
181. <i>Eogamasomorpha ohlhoffi</i> (Wunderlich, 2011i)	K Burmese amber
182. ? <i>Eogamasomorpha unicornis</i> Wunderlich, 2017c	K Burmese amber
<i>Eogamasomorpha</i> sp. indet. in Wunderlich (2017c)	K Burmese amber
† Furcembolus Wunderlich, 2008d	Cretaceous
= † <i>Praeterpaculla</i> Wunderlich, 2015b	
183. <i>Furcembolus andersoni</i> Wunderlich, 2008d*	K Burmese amber
184. <i>Furcembolus armatura</i> (Wunderlich, 2015b)	K Burmese amber
185. <i>Furcembolus biacuta</i> (Wunderlich, 2015b)	K Burmese amber
186. <i>Furcembolus crassitibia</i> Wunderlich, 2017c	K Burmese amber
187. <i>Furcembolus dissolata</i> (Wunderlich, 2015b)	K Burmese amber
188. <i>Furcembolus equester</i> (Wunderlich, 2015b)	K Burmese amber
189. <i>Furcembolus grossa</i> Wunderlich, 2017c	K Burmese amber
190. <i>Furcembolus longior</i> Wunderlich, 2017c	K Burmese amber
191. <i>Furcembolus tuberosa</i> (Wunderlich, 2015b)*	K Burmese amber
† Longissithorax Wunderlich, 2017c	Cretaceous
192. <i>Longissithorax myanmarensis</i> Wunderlich, 2017c*	K Burmese amber
† Longithorax Wunderlich, 2017c	Cretaceous
193. <i>Longithorax furca</i> Wunderlich, 2017c*	K Burmese amber
Monoblemma Gertsch, 1941	Neogene
194. ? <i>Monoblemma spinosum</i> Wunderlich, 1988	Ne Dominican amber
† Palpalpaculla Wunderlich, 2017c	Cretaceous
195. <i>Palpalpaculla pulcher</i> Wunderlich, 2017c*	K Burmese amber
† Saetosoma Wunderlich, 2012d	Cretaceous
196. <i>Saetosoma filiembolus</i> Wunderlich, 2012d*	K Burmese amber
† Uniscutosoma Wunderlich, 2015b	Cretaceous
197. <i>Uniscutosoma aberrans</i> Wunderlich, 2015b*	K Burmese amber

PLECTREURIDAE Simon, 1893	Jurassic – Recent
† <i>Eoplectreurus</i> Selden & Huang, 2010	Jurassic
198. <i>Eoplectreurus gertschi</i> Selden & Huang, 2010*	J Daohugou
† <i>Montsecarachne</i> Selden, 2014a	Cretaceous
199. <i>Montsecarachne amicorum</i> Selden, 2014a*	K El Montsec
NB: Erroneously cited as <i>amicus</i> in the abstract.	
† <i>Palaeoplectreurus</i> Wunderlich, 2004c	Palaeogene
200. <i>Palaeoplectreurus baltica</i> Wunderlich, 2004c*	Pa Baltic amber
<i>Plectreurus</i> Simon, 1893	Neogene – Recent
201. <i>Plectreurus pittfieldi</i> Penney, 2009	Ne Dominican amber
DIGUETIDAE F. O. P.-Cambridge, 1899	Recent
no fossil record	
PHOLCIDAE C. L. Koch, 1851	Palaeogene – Recent
Pholcidae sp. 1–2 <i>in</i> Wunderlich (2004b)	Pa Baltic amber
Pholcidae sp. <i>in</i> Wunderlich (2004au)	Pa Fu Shun amber
<i>Coryssocnemis</i> Simon, 1893	Neogene – Recent
202. ? <i>Coryssocnemis velteni</i> Wunderlich, 2004c	Ne Dominican amber
<i>Leptopholcus</i> Simon, 1893	Neogene
203. <i>Leptopholcus kiskeya</i> Huber & Wunderlich, 2006	Ne Dominican amber
<i>Modisimus</i> Simon, 1893	Neogene – Recent
204. <i>Modisimus calcar</i> Wunderlich, 1988	Ne Dominican amber
205. <i>Modisimus calcaroides</i> Wunderlich, 1988	Ne Dominican amber
206. <i>Modisimus crassifemoralis</i> Wunderlich, 1988	Ne Dominican amber
207. <i>Modisimus oculatus</i> Wunderlich, 1988	Ne Dominican amber
208. <i>Modisimus tuberosus</i> Wunderlich, 1988	Ne Dominican amber
<i>Modisimus</i> sp. <i>in</i> Wunderlich (1988)	Ne Dominican amber
† <i>Paraspermophora</i> Wunderlich, 2004c	Palaeogene
209. <i>Paraspermophora bitterfeldensis</i> Wunderlich, 2004c	Pa Bitterfeld amber
210. <i>Paraspermophora perplexa</i> Wunderlich, 2004c*	Pa Baltic amber
<i>Paraspermophora</i> sp. <i>in</i> Wunderlich (2004c, 2011h)	Pa Baltic / Bitt. amber
<i>Pholcophora</i> Banks, 1896	Neogene – Recent
211. <i>Pholcophora brevipes</i> Wunderlich, 1988	Ne Dominican amber
212. <i>Pholcophora gracilis</i> Wunderlich, 1988	Ne Dominican amber
213. <i>Pholcophora longicornis</i> Wunderlich, 1988	Ne Dominican amber
<i>Quamtana</i> Huber, 2003	Palaeogene – Recent
214. <i>Quamtana huberi</i> Penney, 2007a	Pa Le Quesnoy amber
† <i>Serratochorus</i> Wunderlich, 1988	Neogene
215. <i>Serratochorus pygmaeus</i> Wunderlich, 1988*	Ne Dominican amber

GRADUNGULIDAE Forster, 1955	Recent
no fossil record	
CY SPIGOT CLADE	
† PRAETERLEPTONETIDAE Wunderlich 2008d	Cretaceous
<i>Praeterleptonetidae</i> indet. <i>in</i> Wunderlich (2008d)	K Burmese amber
? <i>Praeterleptonetidae</i> indet. <i>in</i> Wunderlich 2015b	K Burmese amber
† <i>Autotomiana</i> Wunderlich, 2015b	Cretaceous
216. <i>Autotomiana hirsutipes</i> Wunderlich, 2015b*	K Burmese amber
? <i>Autotomiana</i> sp. indet. <i>in</i> Wunderlich, 2015b	K Burmese amber
† <i>Biapophyses</i> Wunderlich, 2015b	Cretaceous
217. <i>Biapophyses beate</i> Wunderlich, 2015b*	K Burmese amber
† <i>Crassitibia</i> Wunderlich, 2015b	Cretaceous
218. <i>Crassitibia longispina</i> Wunderlich, 2015b*	K Burmese amber
219. <i>Crassitibia tenuimana</i> Wunderlich, 2015b	K Burmese amber
† <i>Curvitibia</i> Wunderlich, 2015b	Cretaceous
220. <i>Curvitibia curima</i> Wunderlich, 2015b*	K Burmese amber
† <i>Groehnianus</i> Wunderlich, 2015b	Cretaceous
221. <i>Groehnianus burmensis</i> Wunderlich, 2015b*	K Burmese amber
† <i>Hypotheridiosoma</i> Wunderlich, 2012d	Cretaceous
222. <i>Hypotheridiosoma falcata</i> Wunderlich, 2015b	K Burmese amber
223. <i>Hypotheridiosoma paracymbium</i> Wunderlich, 2012d*	K Burmese amber
† <i>Palaeohygropoda</i> Penney, 2004c	Cretaceous
224. <i>Palaeohygropoda myanmarensis</i> Penney, 2004c*	K Burmese amber
† <i>Parvispina</i> Wunderlich, 2015b	Cretaceous
225. <i>Parvispina tibialis</i> (Wunderlich, 2011i)*	K Burmese amber
† <i>Praeterleptoneta</i> Wunderlich, 2008d	Cretaceous
226. <i>Praeterleptoneta spinipes</i> Wunderlich, 2008d*	K Burmese amber
† <i>Spinipalpitibia</i> Wunderlich, 2015b	Cretaceous
227. <i>Spinipalpitibia maior</i> Wunderlich, 2015b*	K Burmese amber
† PHOLCOCHYROCERIDAE Wunderlich, 2008d (n. stat. 2012d)	Cretaceous
† <i>Pholcochyrocer</i> Wunderlich, 2008d	Cretaceous
228. <i>Pholcochyrocer altipecten</i> Wunderlich, 2017c	K Burmese amber
229. ? <i>Pholcochyrocer baculum</i> Wunderlich, 2012d	K Burmese amber
230. <i>Pholcochyrocer guttulaequae</i> Wunderlich, 2008d*	K Burmese amber
231. <i>Pholcochyrocer pecten</i> Wunderlich, 2012d	K Burmese amber
† <i>Spinicreber</i> Wunderlich, 2015b	Cretaceous
232. <i>Spinicreber antiquus</i> Wunderlich, 2015b*	K Burmese amber
† <i>Spinipalpus</i> Wunderlich, 2015b	Cretaceous
233. <i>Spinipalpus vetus</i> Wunderlich, 2015b*	K Burmese amber

LEPTONETIDAE Simon, 1890	Cretaceous – Recent
† Eoleptoneta Wunderlich, 1991	Palaeogene
234. <i>Eoleptoneta curvata</i> Wunderlich, 2004c	Pa Bitterfeld amber
235. <i>Eoleptoneta duocalcar</i> Wunderlich, 2004c	Pa Baltic amber
236. <i>Eoleptoneta kutscheri</i> Wunderlich, 1991*	Pa Bitterfeld amber
237. <i>Eoleptoneta multispinae</i> Wunderlich, 2011h	Pa Baltic amber
238. <i>Eoleptoneta pseudoarticulata</i> Wunderlich, 2011h	Pa Baltic amber
239. <i>Eoleptoneta similis</i> Wunderlich, 2004c	Pa Baltic amber
† Oligoleptoneta Wunderlich 2004c	Palaeogene
240. <i>Oligoleptoneta altoculus</i> Wunderlich 2004c*	Pa Baltic amber
241. <i>Oligoleptoneta cymbiospina</i> Wunderlich, 2011h	Pa Baltic amber
† Palaeoleptoneta Wunderlich 2012d	Cretaceous
242. <i>Paleoleptoneta calcar</i> Wunderlich, 2012d*	K Burmese amber
243. <i>Paleoleptoneta crus</i> Wunderlich, 2017c	K Burmese amber
<i>Paleoleptoneta</i> sp. indet. in Wunderlich (2017c)	K Burmese amber
 AUSTROCHILIDAE Zapfe, 1955	Recent
= THAIDIDAE Lehtinen, 1967	
= HICKMANIIDAE Lehtinen, 1967	
no fossil record	
 TELEMIDAE Fage, 1913	?Cretaceous – Recent
Telema Simon, 1882	Palaeogene – Recent
244. ? <i>Telema moritzi</i> Wunderlich, 2004c	Pa Baltic / Bitt. amber
Telemofila Wunderlich, 1995	?Cretaceous – Recent
245. ? <i>Telemofila crassifemoralis</i> Wunderlich, 2004c	K Burmese amber
 PALPIMANOIDEA Thorell, 1870a	Jurassic – Recent
family uncertain	
† Seppo Selden & Dunlop, 2014	Jurassic
246. <i>Seppo koponeni</i> Selden & Dunlop, 2014*	J Grimmen, Germany
NB: Wunderlich (2015b) suggested possible affinities to Araneidae.	
† Sinaranea Selden, Huang & Ren, 2008	Jurassic
247. <i>Sinaranea metaxyostraca</i> Selden, Huang & Ren, 2008*	J Daohugou, China
 MECYSMAUCHENIIDAE Simon, 1895	Cretaceous – Recent
† Archaemecys Saupe & Selden, 2009	Cretaceous
248. <i>Archaemecys arcantiensis</i> Saupe & Selden, 2009	K Charente amber
NB: Wunderlich (2015b) suggested that this could be an archaeid (Archaeinae).	
 HUTTONIIDAE Simon, 1893	Cretaceous – Recent
unnamed genus and species in Penney & Selden (2006)	K Manitoban amber

† MICROPALPIMANIDAE Wunderlich, 2008d	Cretaceous
† <i>Micropalpimanus</i> Wunderlich, 2008d	Cretaceous
<i>Micropalpimanus</i> sp. indet. in Wunderlich (2012d)	K Burmese amber
249. <i>Micropalpimanus poinari</i> Wunderlich, 2008d	K Burmese amber
PALPIMANIDAE Thorell, 1870a	Cretaceous – Recent
= OTITHOPOIDAE Thorell, 1869 [younger name protected by useage]	
= CHERSIDAE Canestrini & Pavesi, 1870	
Palpimanidae indet. in Wunderlich, 2017c	K Burmese amber
Otiothops MacLeay, 1839	Neogene – Recent
<i>Otiothops</i> sp. 1–2 in Wunderlich (1988)	Ne Dominican amber
† LAGONOMEGOPIDAE Eskov & Wunderlich, 1995	Cretaceous
Lagonomegopidae indet. in Wunderlich, 2015b	K Burmese amber
Lagonomegopidae gen et sp. indet. in Wunderlich, 2017c	K Burmese amber
† <i>Albiburmops</i> Wunderlich, 2017c	Cretaceous
250. <i>Albiburmops annulipes</i> Wunderlich, 2017c*	K Burmese amber
† <i>Archaelagonops</i> Wunderlich, 2012d	Cretaceous
251. <i>Archaelagonops propinquus</i> Wunderlich, 2015b	K Burmese amber
252. <i>Archaelagonops salticoides</i> Wunderlich, 2012d*	K Burmese amber
253. <i>Archaelagonops scorsum</i> Wunderlich, 2015b	K Burmese amber
<i>Archaelagonops</i> sp. indet. in Wunderlich (2015b)	K Burmese amber
† <i>Burlagonomegops</i> Penney, 2005b	Cretaceous
254. <i>Burlagonomegops alavensis</i> Penney, 2006b	K Álava amber
255. <i>Burlagonomegops eskovi</i> Penney, 2005b*	K Burmese amber
† <i>Cymbiolagonops</i> Wunderlich, 2015b	Cretaceous
256. <i>Cymbiolagonops cymbiocalcar</i> Wunderlich, 2015b*	K Burmese amber
† <i>Lagonoburmops</i> Wunderlich, 2012d	Cretaceous
257. <i>Lagonoburmops plumosus</i> Wunderlich, 2012d*	K Burmese amber
† <i>Lagonomegops</i> Eskov & Wunderlich, 1995	Cretaceous
258. <i>Lagonomegops americanus</i> Penney, 2005b	K New Jersey amber
259. ? <i>Lagonomegops cor</i> Pérez-de la Fuente, Saupe & Selden, 2015	K Álava amber
260. <i>Lagonomegops sukatchevae</i> Eskov & Wunderlich, 1995*	K Taimyr amber
261. ? <i>Lagonomegops tuber</i> Wunderlich, 2015b	K Burmese amber
† <i>Lineaburmops</i> Wunderlich, 2015b	Cretaceous
262. <i>Lineaburmops beigeli</i> Wunderlich, 2015b*	K Burmese amber
263. <i>Lineaburmops hirsutipes</i> Wunderlich, 2015b	K Burmese amber
264. <i>Lineaburmops maculatus</i> Wunderlich, 2017c	K Burmese amber
† <i>Myanlagonops</i> Wunderlich, 2012d	Cretaceous
265. <i>Myanlagonops gracilipes</i> Wunderlich, 2012d*	K Burmese amber
† <i>Parviburmops</i> Wunderlich, 2015b	Cretaceous

266. ? <i>Parviburmops bigibber</i> Wunderlich, 2015 <i>b</i>	K Burmese amber
267. <i>Parviburmops brevipalpus</i> Wunderlich, 2015 <i>b</i> *	K Burmese amber
† Paxillomegops Wunderlich, 2015<i>b</i>	Cretaceous
268. ? <i>Paxillomegops brevipes</i> Wunderlich, 2015 <i>b</i>	K Burmese amber
269. ? <i>Paxillomegops cornutus</i> Wunderlich, 2017 <i>c</i>	K Burmese amber
270. <i>Paxillomegops longipes</i> Wunderlich, 2015 <i>b</i> *	K Burmese amber
† Picturmegops Wunderlich, 2015<i>b</i>	Cretaceous
271. <i>Picturmegops signatus</i> Wunderlich, 2015 <i>b</i> *	K Burmese amber
† Planimegops Wunderlich, 2017<i>c</i>	Cretaceous
272. <i>Planimegops parvus</i> Wunderlich, 2017 <i>c</i> *	K Burmese amber
† Soplaogonomegops Pérez-de la Fuente, Saupe & Selden	Cretaceous
NB: Wunderlich (2015 <i>b</i>) tentatively synonymised this genus with <i>Archaelagonops</i> .	
273. <i>Soplaogonomegops unzuei</i> Pérez-de la Fuente, Saupe & Selden, 2015*	K El Soplao amber
† Spinomegops Pérez-de la Fuente, Saupe & Selden, 2015	Cretaceous
274. <i>Spinomegops aragonensis</i> Pérez-de la Fuente, Saupe & Selden, 2015	K San Just amber
275. <i>Spinomegops arcanus</i> Pérez-de la Fuente, Saupe & Selden, 2015*	K Álava amber
† Zarquagonomegops Kaddumi, 2007	Cretaceous
276. <i>Zarquagonomegops wunderlichi</i> Kaddumi, 2007*	K Jordanian amber
† GRANDOCULIDAE Penney, 2011	Cretaceous
NB: The validity of this family has been challenged (cf. Wunderlich 2012 <i>d</i> , 2015 <i>b</i> & Pérez-de la Fuente <i>et al.</i> 2013).	
† Grandoculus Penney, 2004<i>b</i>	Cretaceous
277. <i>Grandoculus chemahawinensis</i> Penney, 2004 <i>b</i> *	K Canadian amber
† SPATIATORIDAE Petrunkevitch, 1942	Cretaceous – Palaeo.
Spatiatoridae indet <i>in</i> Wunderlich 2017 <i>c</i>	K Burmese amber
† Spatiator Petrunkevitch, 1942	Cretaceous – Palaeo.
278. <i>Spatiator bitterfeldensis</i> Wunderlich 2017 <i>a</i>	Pa Bitterfeld amber
279. <i>Spatiator caulis</i> Wunderlich, 2008 <i>a</i>	Pa Baltic amber
280. <i>Spatiator martensi</i> Wunderlich, 2006	Pa Baltic amber
281. <i>Spatiator praeceps</i> Petrunkevitch, 1942*	Pa Baltic amber
282. <i>Spatiator putescens</i> Wunderlich, 2015 <i>b</i>	K Burmese amber
<i>Spatiator</i> sp. <i>in</i> Wunderlich (2011 <i>h</i>)	Pa Baltic amber
† VETIATORIDAE Wunderlich, 2017<i>c</i>	Cretaceous
Vetiatoridae indet <i>in</i> Wunderlich (2017 <i>c</i>)	K Burmese amber
† Pekkachilus Wunderlich, 2017<i>c</i>	Cretaceous
<i>Pekkachilus</i> sp. indet <i>in</i> Wunderlich (2017 <i>c</i>)	K Burmese amber
283. <i>Pekkachilus vesica</i> Wunderlich, 2017 <i>c</i> *	K Burmese amber

† Vetiator Wunderlich, 2015b	Cretaceous
284. <i>Vetiator gracilipes</i> Wunderlich, 2015b*	K Burmese amber
STENOCHILIDAE Thorell, 1873	Recent
no fossil record	
ARCHAEIDAE C. L. Koch & Berendt, 1854	Jurassic – Recent
Archaeinae indet. in Wunderlich, 2015b	K Burmese amber
Archaea C. L. Koch & Berendt, 1854	Palaeogene – Recent
285. ? <i>Archaea bitterfeldensis</i> Wunderlich, 2004d	Pa Bitterfeld amber
286. <i>Archaea compacta</i> Wunderlich, 2004d	Pa Baltic amber
287. <i>Archaea paradoxa</i> C. L. Koch & Berendt, 1854*	Pa Baltic amber
iv. = <i>Archaea laevigata</i> C. L. Koch & Berendt, 1854	Pa Baltic amber
v. = <i>Archaea incompta</i> Menge in C. L. Koch & Berendt, 1854	Pa Baltic amber
288. <i>Archaea pougneti</i> Simon, 1884b	Pa Baltic amber
† Baltarchaea Eskov, 1992	Palaeogene
289. <i>Baltarchaea conica</i> (C. L. Koch & Berendt, 1854)*	Pa Baltic amber
† Burmesarchaea Wunderlich, 2008d	Cretaceous
290. <i>Burmesarchaea alissa</i> Wunderlich, 2017c	K Burmese amber
291. <i>Burmesarchaea caudata</i> Wunderlich, 2017c	K Burmese amber
292. <i>Burmesarchaea crassicaput</i> Wunderlich, 2017c	K Burmese amber
293. <i>Burmesarchaea crassichelae</i> Wunderlich, 2017c	K Burmese amber
294. <i>Burmesarchaea gibber</i> Wunderlich, 2017c	K Burmese amber
295. <i>Burmesarchaea gibberoides</i> Wunderlich, 2017c	K Burmese amber
296. <i>Burmesarchaea gibbosa</i> Wunderlich, 2017c	K Burmese amber
297. <i>Burmesarchaea grimaldii</i> (Penney, 2003a)	K Burmese amber
298. <i>Burmesarchaea longicollum</i> Wunderlich, 2017c	K Burmese amber
299. <i>Burmesarchaea propinqua</i> Wunderlich, 2017c	K Burmese amber
300. <i>Burmesarchaea pseudogibber</i> Wunderlich, 2017c	K Burmese amber
301. <i>Burmesarchaea pustulata</i> Wunderlich, 2017c	K Burmese amber
302. <i>Burmesarchaea quadrata</i> Wunderlich, 2017c	K Burmese amber
303. <i>Burmesarchaea speciosus</i> (Wunderlich, 2008d)	K Burmese amber
† Eoarchaea Forster & Platnick, 1984	Palaeogene
304. <i>Eoarchaea hyperoptica</i> (Menge in C. L. Koch & Berendt, 1854)*	Pa Baltic amber
305. <i>Eoarchaea vidua</i> Wunderlich, 2004d	Pa Baltic amber
† Eomysmauchenius Wunderlich, 2008d	Cretaceous
306. <i>Eomysmauchenius dubius</i> Wunderlich, 2008d	K Burmese amber
307. <i>Eomysmauchenius longissipes</i> Wunderlich, 2015b	K Burmese amber
NB: tentative transfer by Wunderlich (2017c)	
308. <i>Eomysmauchenius septentrionalis</i> Wunderlich, 2008d*	K Burmese amber

Eriauchenius O. P.-Cambridge, 1881	Quaternary – Recent
309. <i>Eriauchenius gracilicollis</i> (Millot, 1948) [Recent]	Qt Copal
vi. = <i>Archaea copalensis</i> Lourenço, 2000b	Qt Copal
† Jurarchaea Eskov, 1987	Jurassic
310. <i>Jurarchaea zherikhini</i> Eskov, 1987*	J Kazakhstan
† Myrmecarchaea Wunderlich, 2004d	Palaeogene
311. <i>Myrmecarchaea petiolus</i> Wunderlich, 2004d*	Pa Baltic amber
312. <i>Myrmecarchaea pediculus</i> Wunderlich, 2004d	Pa Baltic amber
† Patarchaea Selden, Huang & Ren, 2008	Jurassic
313. <i>Patarchaea muralis</i> Selden, Huang & Ren, 2008*	J Daohugou, China
† Planarchaea Wunderlich, 2015b	Cretaceous
= † <i>Filiauchenius</i> Wunderlich, 2008d	
314. <i>Planarchaea kopp</i> Wunderlich, 2015b*	K Burmese amber
315. <i>Planarchaea oblonga</i> Wunderlich, 2017c	K Burmese amber
316. <i>Planarchaea ovata</i> Wunderlich, 2017c	K Burmese amber
317. <i>Planarchaea paucidentatus</i> (Wunderlich, 2008d) tentative transfer	K Burmese amber
318. <i>Planarchaea pilosa</i> (Wunderlich, 2015b) tentative transfer	K Burmese amber
† Saxonarchaea Wunderlich, 2004d	Palaeogene
319. <i>Saxonarchaea dentata</i> Wunderlich, 2004d*	Pa Bitterfeld amber
320. <i>Saxonarchaea diabolica</i> Wunderlich, 2004d	Pa Bitterfeld amber
ENTELEGYNAE Simon, 1893	Triassic – Recent
NICODAMOIDEA Simon, 1898	Recent
MEGADICTYNIDAE Lehtinen, 1967	Recent
no fossil record	
NICODAMIDAE Simon, 1898	Recent
no fossil record	
ARANEOIDEA Latreille, 1806	Jurassic – Recent
Araneoidea fam. indet. <i>in</i> Wunderlich (2008d)	K Burmese amber
† Mesarania Hong, 1984	Jurassic
321. <i>Mesarania hebeiensis</i> Hong, 1984*	J Hebei, China
† PRAETHERIDIIDAE Wunderlich, 2004/ (n. stat. 2012)	Palaeogene
† <i>Praetheridion</i> Wunderlich, 2004/	Palaeogene
322. <i>Praetheridion fleissneri</i> Wunderlich, 2004/*	Pa Baltic amber
† PROTHERIDIIDAE Wunderlich, 2004/	Cretaceous – Palaeo.
† <i>Protheridion</i> Wunderlich, 2004/	Palaeogene
323. <i>Protheridion bitterfeldensis</i> Wunderlich, 2004/	Pa Bitterfeld amber
324. <i>Protheridion detritus</i> Wunderlich, 2004/	Pa Baltic amber

325. <i>Protheridion obscurum</i> Wunderlich, 2004/	Pa	Baltic amber
326. <i>Protheridion punctatum</i> Wunderlich, 2004/	Pa	Baltic amber
327. <i>Protheridion tibialis</i> Wunderlich, 2004*	Pa	Baltic amber
† Zarqaraneus Wunderlich, 2008d		Cretaceous
328. <i>Zarqaraneus hudaie</i> Wunderlich, 2008d*	K	Jordanian amber
THERIDIIDAE Sundevall, 1833		?Cretaceous – Recent
= PHYCOIDAE Thorell, 1873		
= EPISINIDAE O. P.-Cambridge, 1879a		
= HADROTARSIDAE Thorell, 1881		
?Theridiidae gen. et sp. indet. <i>in</i> McAlpine & Martin (1969)	K	Canadian amber
Theridiidae gen. et sp. <i>in</i> Nishikawa (1974)	Qt	Mizunami copal
Achaeearanea Strand, 1929		Neogene – Recent
329. <i>Achaeearanea extincta</i> Wunderlich, 1988	Ne	Dominican amber
<i>Achaeearanea</i> sp. <i>in</i> Wunderlich (1988)	Ne	Dominican amber
Argyrodes Simon, 1864		Neogene – Recent
330. <i>Argyrodes (Ariamnes) copalis</i> Wunderlich, 2008b	Qt	Colombian copal
331. <i>Argyrodes (Ariamnes) resina</i> Wunderlich, 2011f	Qt	Madagascar copal
332. <i>Argyrodes (Rhomphaea) gibbifera</i> Wunderlich, 2004as	Qt	Madagascar copal
333. <i>Argyrodes parvipatellaris</i> Wunderlich, 1988	Ne	Dominican amber
<i>Argyrodes</i> sp. <i>in</i> Wunderlich (1988)	Ne	Dominican amber
† Balticoridion Wunderlich, 2008b		Palaeogene
334. <i>Balticoridion dubium</i> Wunderlich, 2008b*	Pa	Baltic / Bitt. amber
† Balticpholcomma Wunderlich, 2008b		Palaeogene
335. <i>Balticpholcomma scutatum</i> Wunderlich, 2008b*	Pa	Baltic amber
† Caudasinus Wunderlich, 2008b		Palaeogene
336. <i>Caudasinus bispinosus</i> Wunderlich, 2008b	Pa	Baltic amber
337. <i>Caudasinus caudatus</i> Wunderlich, 2008b*	Pa	Baltic amber
338. <i>Caudasinus regeneratus</i> Wunderlich, 2008b	Pa	Baltic amber
<i>Caudasinus</i> sp. <i>in</i> Wunderlich (2008b)	Pa	Baltic amber
Chrosiothes Simon, 1894		Neogene – Recent
339. <i>Chrosiothes biconigerus</i> Wunderlich, 1988	Ne	Dominican amber
340. <i>Chrosiothes curvispinosus</i> Wunderlich, 1988	Ne	Dominican amber
341. <i>Chrosiothes emulgatus</i> Wunderlich, 1988	Ne	Dominican amber
342. <i>Chrosiothes longispinosus</i> Wunderlich, 1988	Ne	Dominican amber
343. <i>Chrosiothes monoceros</i> Wunderlich, 1988	Ne	Dominican amber
344. <i>Chrosiothes tumulus</i> Wunderlich, 1988	Ne	Dominican amber
345. <i>Chrosiothes unicornis</i> Wunderlich, 1988	Ne	Dominican amber
Chrysso O. P.-Cambridge, 1882a		Neogene – Recent
346. <i>Chrysso conspicua</i> Wunderlich, 1988	Ne	Dominican amber
347. <i>Chrysso dubia</i> Wunderlich, 1988	Ne	Dominican amber
† Clavibertus Wunderlich, 2008b		Palaeogene

348. *Clavibertus parvus* Wunderlich, 2008b Pa Baltic amber
349. *Clavibertus prominens* Wunderlich, 2008b* Pa Baltic amber
- † ***Clya* C. L. Koch & Berendt, 1854** **Palaeogene**
350. *Clya abdita* Wunderlich, 2008b Pa Baltic amber
351. *Clya lugubris* C. L. Koch & Berendt, 1854* Pa Baltic / Rovno amber
352. *Clya calefacta* Wunderlich, 2008b Pa Baltic amber
353. *Clya gracilis* (Petrunkevitch, 1958) Pa Baltic amber
354. *Clya granulata* (C. L. Koch & Berendt, 1854) Pa Baltic amber
355. *Clya obscura* (C. L. Koch & Berendt, 1854) Pa Baltic amber
356. *Clya rotata* Wunderlich, 2008b Pa Baltic amber
357. *Clya supercalefacta* Wunderlich, 2008b Pa Baltic amber
358. *Clya superspiralis* Wunderlich, 2008b Pa Baltic amber
359. *Clya tricurvata* Wunderlich, 2008b Pa Baltic amber
- † ***Cornutidion* Wunderlich, 1988** **Neogene**
360. *Cornutidion elongatum* Wunderlich, 1988* Ne Dominican amber
- Craspedisia* Simon, 1894** **Neogene – Recent**
361. *Craspedisia yapchoonteki* Penney & Marusik in Penney *et al.* (2012b) Ne Dominican amber
- † ***Cretotheridion* Wunderlich, 2015b** **Cretaceous**
362. *Cretotheridion inopinatum* Wunderlich, 2015b* K Burmese amber
- † ***Cymbiopholcomma* Wunderlich, 2008b** **Palaeogene**
363. *Cymbiopholcomma dudum* Wunderlich, 2008b* Pa Baltic amber
364. *Cymbiopholcomma spiculum* Wunderlich, 2008b Pa Baltic amber
- † ***Dipoenata* Wunderlich, 1988** **Neogene**
365. *Dipoenata altiocolata* Wunderlich, 1988 Ne Dominican amber
366. *Dipoenata cala* Wunderlich, 1988 Ne Dominican amber
367. *Dipoenata clypeata* Wunderlich, 1988 Ne Dominican amber
368. *Dipoenata globulus* Wunderlich, 1988 Ne Dominican amber
369. *Dipoenata praedominicana* (Wunderlich, 1986) Qt Dominican copal
370. *Dipoenata stipes* Wunderlich, 1988* Ne Dominican amber
371. *Dipoenata yolandae* Wunderlich, 1988 Ne Dominican amber
- Dipoenata* sp. in Wunderlich (1988) Ne Dominican amber
- † ***Eoasagena* Wunderlich, 2008b** **Palaeogene**
372. *Eoasagena scutata* Wunderlich, 2008b* Pa Baltic amber
- † ***Eolyrifer* Wunderlich, 2008b** **Palaeogene**
373. *Eolyrifer longitibialis* Wunderlich, 2008b* Pa Baltic amber
- † ***Eomysmena* Petrunkevitch, 1942** **Palaeogene – Neogene**
- = † *Antopia* Menge in C. L. Koch & Berendt, 1854 [tentative synonymy]
- = † *Astodipoena* Petrunkevitch, 1958
- = † *Eodipoena* Petrunkevitch, 1942
374. *Eomysmena asta* Petrunkevitch, 1971 Ne Chiapas amber
375. *Eomysmena aviceps* Wunderlich, 2008b Pa Baltic amber

376. <i>Eomysmena calefacta</i> Wunderlich, 2008 <i>b</i>	Pa Baltic amber
377. <i>Eomysmena crassa</i> (Petrunkevitch, 1958)	Pa Baltic amber
378. <i>Eomysmena baltica</i> Petrunkevitch, 1946	Pa Baltic amber
379. ' <i>Eomysmena</i> ' <i>bassleri</i> (Petrunkevitch, 1942)	Pa Baltic amber
380. ? <i>Eomysmena kaestneri</i> (Petrunkevitch, 1958)	Pa Baltic amber
381. <i>Eomysmena militaris</i> (C. L. Koch & Berendt, 1854)	Pa Baltic amber
382. <i>Eomysmena moritura</i> Petrunkevitch, 1942*	Pa Baltic amber
vii. = <i>Eomysmena consulta</i> (Petrunkevitch, 1958)	
[tentative synonymy]	Pa Baltic amber
383. <i>Eomysmena nielsenii</i> (Petrunkevitch, 1958)	Pa Baltic amber
384. <i>Eomysmena oculata</i> (Petrunkevitch, 1942)	Pa Baltic amber
385. <i>Eomysmena punctulata</i> (C. L. Koch & Berendt, 1854)	Pa Baltic amber
386. <i>Eomysmena recta</i> Wunderlich, 2008 <i>b</i>	Pa Baltic amber
387. <i>Eomysmena tenera</i> (Menge in C. L. Koch & Berendt, 1854)	Pa Baltic amber
<i>Eomysmena</i> spp. in Wunderlich 2008 <i>b</i>	Pa Baltic / Bitt. Amber
† <i>Eoteutana</i> Wunderlich, 2008<i>b</i>	Palaeogene
388. <i>Eoteutana hirsuta</i> Wunderlich, 2008 <i>b</i> *	Pa Baltic amber
<i>Episinus</i> Latreille, 1809	Palaeogene – Recent
= † <i>Flegia</i> C. L. Koch & Berendt, 1854	
= † <i>Impulsor</i> Petrunkevitch, 1942	
= † <i>Malleator</i> Petrunkevitch, 1942	
= † <i>Mictodipoena</i> Petrunkevitch, 1958	
= † <i>Municeps</i> Petrunkevitch, 1942 [tentative synonymy]	
389. <i>Episinus anapidaeque</i> Wunderlich, 2008 <i>b</i>	Pa Baltic amber
390. <i>Episinus antecognatus</i> Wunderlich, 1986	Qt Dominican copal
391. <i>Episinus appendix</i> Wunderlich, 2008 <i>b</i>	Pa Baltic amber
392. <i>Episinus arrodens</i> Wunderlich, 2008 <i>b</i>	Pa Baltic amber
393. <i>Episinus balticus</i> Marusik & Penney, 2004	Pa Baltic / Bitt. Amber
394. <i>Episinus brevipalpus</i> Wunderlich, 1988	Ne Dominican amber
395. <i>Episinus bulla</i> Wunderlich, 2008 <i>b</i>	Pa Baltic amber
396. <i>Episinus chiapasanus</i> (Petrunkevitch, 1971)	Ne Chiapas amber
397. <i>Episinus clunus</i> Wunderlich, 2008 <i>b</i>	Pa Baltic amber
398. <i>Episinus cochlear</i> Wunderlich, 2008 <i>b</i>	Pa Baltic amber
399. <i>Episinus cornutus</i> Wunderlich, 1988	Ne Dominican amber
400. <i>Episinus cymbialis</i> Wunderlich, 2008 <i>b</i>	Pa Baltic amber
401. <i>Episinus dimidius</i> Wunderlich, 2008 <i>b</i>	Pa Baltic amber
402. <i>Episinus eskovi</i> Marusik & Penney, 2004	Pa Baltic amber
403. <i>Episinus isopteraque</i> Wunderlich, 2008 <i>b</i>	Pa Baltic amber
404. <i>Episinus latus</i> Wunderlich, 2008 <i>b</i>	Pa Baltic amber
405. <i>Episinus longimanus</i> (C. L. Koch & Berendt, 1854)	Pa Baltic amber
viii. = <i>Malleator niger</i> Petrunkevitch, 1942	Pa Baltic amber
406. <i>Episinus longisoma</i> Wunderlich, 2008 <i>b</i>	Pa Baltic amber

407. <i>Episinus minutus</i> (Petrunkevitch, 1958)	Pa Baltic amber
408. <i>Episinus mordellidaeque</i> Wunderlich, 2008 <i>b</i>	Pa Baltic amber
409. <i>Episinus musculus</i> Wunderlich, 2008 <i>b</i>	Pa Baltic amber
410. <i>Episinus mutilus</i> (Petrunkevitch, 1958)	Pa Baltic amber
411. <i>Episinus nausticymbium</i> Wunderlich, 2008 <i>b</i>	Pa Baltic amber
412. <i>Episinus neglectus</i> (Petrunkevitch, 1942)	Pa Baltic amber
413. <i>Episinus penneyi</i> Garcia-Villafuerte, 2006 <i>a</i>	Ne Chiapas amber
414. <i>Episinus praecognatus</i> Wunderlich, 1982	Ne Dominican amber
415. <i>Episinus pulcher</i> (Petrunkevitch, 1942)	Pa Baltic amber
416. <i>Episinus regalis</i> (Petrunkevitch, 1958)	Pa Baltic amber
417. <i>Episinus stridulus</i> (Petrunkevitch, 1958)	Pa Baltic amber
418. <i>Episinus tibiasseta</i> Wunderlich, 2011 <i>g</i>	Ne Dominican amber
419. <i>Episinus transversus</i> Wunderlich, 2008 <i>b</i>	Pa Baltic amber
420. <i>Episinus tuberosus</i> Wunderlich, 1988	Ne Dominican amber
<i>Episinus</i> spp. in Wunderlich (2008 <i>b</i>)	Pa Baltic amber
<i>Euryopsis</i> Menge, 1868	Palaeogene – Recent
421. ? <i>Euryopsis araneoides</i> Wunderlich, 2008 <i>b</i>	Pa Baltic amber
422. <i>Euryopsis bitterfeldensis</i> Wunderlich, 2008 <i>b</i>	Pa Baltic / Bitt. Amber
423. <i>Euryopsis nexus</i> Wunderlich, 2008 <i>b</i>	Pa Baltic amber
424. <i>Euryopsis streyi</i> Wunderlich, 2008 <i>b</i>	Pa Baltic / Bitt. Amber
<i>Euryopsis/Emertonella</i> complex in Penney <i>et al.</i> (2012 <i>c</i>)	Qt Colombian copal
† <i>Euryopus</i> Menge in C. L. Koch & Berendt, 1854	Palaeogene
425. <i>Euryopus gracilipes</i> Menge in C. L. Koch & Berendt, 1854*	Pa Baltic amber
<i>Faiditus</i> Keyserling, 1884	Neogene – Recent
426. <i>Faiditus crassipatellaris</i> (Wunderlich, 1988)	Ne Dominican amber
† <i>Femurraptor</i> Wunderlich, 2011<i>g</i>	Neogene
427. <i>Femurraptor dominicanus</i> Wunderlich, 2011 <i>g</i> *	Ne Dominican amber
† <i>Globulidion</i> Wunderlich, 2008<i>b</i>	Palaeogene
428. <i>Globulidion cochlea</i> Wunderlich, 2008 <i>b</i> *	Pa Baltic amber
† <i>Hirsutipalpus</i> Wunderlich, 2008<i>b</i>	Palaeogene
429. <i>Hirsutipalpus varipes</i> Wunderlich, 2008 <i>b</i> *	Pa Baltic / Bitt. amber
† <i>Kochiuridion</i> Wunderlich, 2008<i>b</i>	Palaeogene
430. <i>Kochiuridion scutatatum</i> Wunderlich, 2008 <i>b</i> *	Pa Baltic / Bitt. amber
<i>Lasaeola</i> Simon, 1881	Palaeogene – Recent
= † <i>Nactodipoena</i> Petrunkevitch, 1942 [a subgenus in Wunderlich (2008 <i>b</i>)]	
431. <i>Lasaeola acumen</i> Wunderlich, 2008 <i>b</i>	Pa Baltic amber
432. <i>Lasaeola baltica</i> (Marusik & Penney, 2004)	Pa Baltic amber
433. <i>Lasaeola bitterfeldensis</i> Wunderlich, 2008 <i>b</i>	Pa Bitterfeld amber
434. <i>Lasaeola communis</i> Wunderlich, 2008 <i>b</i>	Pa Baltic amber
435. <i>Lasaeola (Nactodipoena) dunbari</i> (Petrunkevitch, 1942)	Pa Baltic amber
436. ? <i>Lasaeola furca</i> Wunderlich, 2008 <i>b</i>	Pa Baltic amber

437. <i>Lasaeola germanica</i> (Petrunkevitch, 1958)	Pa Baltic amber
438. <i>Lasaeola (Phycosoma) inclinata</i> Wunderlich, 2012a	Qt Madagascan copal
439. <i>Lasaeola infulata</i> (C. L. Koch & Berendt, 1854)	Pa Baltic / Bitt. Amber
440. <i>Lasaeola larvaque</i> Wunderlich, 2008b	Pa Baltic amber
441. <i>Lasaeola latisulci</i> Wunderlich, 2008b	Pa Baltic amber
442. <i>Lasaeola pristina</i> (Wunderlich, 1986)	Ne Dominican amber
443. <i>Lasaeola puta</i> Wunderlich, 1988	Ne Dominican amber
444. <i>Lasaeola sexsaetosa</i> Wunderlich, 2008b	Pa Baltic amber
445. ? <i>Lasaeola sigillata</i> Wunderlich, 2008b	Pa Bitterfeld amber
446. <i>Lasaeola vicina</i> (Wunderlich, 1982)	Ne Dominican amber
447. <i>Lasaeola vicinoides</i> Wunderlich, 1988	Ne Dominican amber
<i>Lasaeola</i> sp. in Wunderlich (1988)	Ne Dominican amber
<i>Lasaeola</i> spp. in Wunderlich (2008b)	Pa Baltic / Bitt. amber
† Medela Petrunkevitch, 1942 [?Theridiidae, cf. Wunderlich (2008b)]	Palaeogene
448. <i>Medela baltica</i> Petrunkevitch, 1942*	Pa Baltic amber
† Mimetidion Wunderlich, 2008b	Palaeogene
449. <i>Mimetidion furca</i> Wunderlich, 2008b*	Pa Baltic amber
† Nanomysmena Petrunkevitch, 1958	Palaeogene
450. <i>Nanomysmena aculeata</i> Petrunkevitch, 1958	Pa Baltic amber
451. <i>Nanomysmena munita</i> Petrunkevitch, 1958	Pa Baltic amber
452. <i>Nanomysmena palanga</i> Marusik & Penney, 2004	Pa Baltic amber
453. <i>Nanomysmena petrunkevitchi</i> Marusik & Penney, 2004	Pa Baltic amber
454. <i>Nanomysmena pseudogracilis</i> Marusik & Penney, 2004	Pa Baltic amber
† Nanosteatoda Wunderlich, 2008b	Palaeogene
455. <i>Nanosteatoda breviscutum</i> Wunderlich, 2008b	Pa Baltic amber
456. <i>Nanosteatoda trisetae</i> Wunderlich, 2008b	Pa Baltic amber
† Obscuropholcomma Wunderlich, 2008b	Palaeogene
457. <i>Obscuropholcomma tegens</i> Wunderlich, 2008b*	Pa Baltic amber
<i>Obscuropholcomma</i> sp. in Wunderlich (2012b)	Pa Rovno amber
Phoroncidia Westwood, 1835	Quaternary – Recent
458. <i>Phoroncidia ?aculeata</i> Westwood, 1835 [Recent]	Qt Madagascan copal
Platnickina Koçak & Kemal, 2008	Quaternary – Recent
459. <i>Platnickina duosetae</i> Wunderlich, 2012a	Qt Madagascan copal
† Praetereuryopsis Wunderlich, 2008b	Palaeogene
460. <i>Praetereuryopsis phoroncidoides</i> Wunderlich, 2008b*	Pa Baltic amber
† Pronepos Petrunkevitch, 1963	Neogene
461. <i>Pronepos exilis</i> Petrunkevitch, 1963*	Ne Chiapas amber
462. <i>Pronepos fossilis</i> Petrunkevitch, 1963	Ne Chiapas amber
† Protosteatoda Wunderlich, 2008b	Palaeogene
463. <i>Protosteatoda gutta</i> Wunderlich, 2008b	Pa Baltic amber
† Pseudoteutana Wunderlich, 2008b	Palaeogene

464. <i>Pseudoteutana stigmata</i> (C. L. Koch & Berendt, 1854)	Pa Baltic amber
ix. = <i>Eomysmena stridens</i> Petrunkevitch, 1958.....	Pa Baltic amber
x. = <i>Flegia succini</i> Petrunkevitch, 1942	Pa Baltic amber
† Rugapholcomma Wunderlich, 2008b	Palaeogene
465. <i>Rugapholcomma patellaris</i> Wunderlich, 2008b*	Pa Baltic amber
† Spinisinus Wunderlich, 2008b	Palaeogene
466. <i>Spinisinus parvioculi</i> Wunderlich, 2008b	Pa Baltic amber
467. <i>Spinisinus splendidus</i> Wunderlich, 2008b*	Pa Baltic amber
† Spinitharinus Wunderlich, 2008b	Palaeogene
468. <i>Spinitharinus bulbosus</i> Wunderlich, 2008b*	Pa Baltic / Bitt. Amber
469. <i>Spinitharinus cheliceratus</i> Wunderlich, 2008b	Pa Baltic / Bitt. Amber
470. <i>Spinitharinus coniectens</i> Wunderlich, 2008b	Pa Baltic amber
471. <i>Spinitharinus curvatus</i> Wunderlich, 2008b	Pa Baltic amber
472. <i>Spinitharinus cymbioseta</i> Wunderlich, 2008b	Pa Baltic amber
<i>Spinitharinus</i> spp. in Wunderlich (2008b)	Pa Baltic amber
Spintharus Hentz, 1850	Neogene – Recent
473. <i>Spintharus longisoma</i> Wunderlich, 1988	Ne Dominican amber
Steatoda Sundevall, 1833	?Palaeogene – Recent
474. ' <i>Steatoda</i> ' <i>anticus</i> (Berland, 1939)	Pa Baltic amber
Stemmops O. P.-Cambridge, 1894	Neogene – Recent
475. <i>Stemmops incertus</i> Wunderlich, 1988	Ne Dominican amber
476. <i>Stemmops prominens</i> Wunderlich, 1988	Ne Dominican amber
Styposis Simon, 1894	Neogene – Recent
477. <i>Styposis pholcoides</i> Wunderlich, 1988	Ne Dominican amber
† Succinobertus Wunderlich, 2008b	Palaeogene
478. <i>Succinobertus adjacens</i> Wunderlich, 2008b*	Pa Baltic / Bitt. Amber
† Succinura Wunderlich, 2008b	Palaeogene
479. <i>Succinura aciesaeata</i> Wunderlich, 2008b	Pa Baltic amber
480. <i>Succinura bellavista</i> Wunderlich, 2008b*	Pa Baltic amber
481. <i>Succinura circuita</i> Wunderlich, 2008b	Pa Baltic amber
482. <i>Succinura dubia</i> Wunderlich, 2008b	Pa Baltic amber
483. <i>Succinura fuscrober</i> Wunderlich, 2008b	Pa Baltic amber
484. <i>Succinura ovalis</i> Wunderlich, 2008b	Pa Baltic amber
<i>Succinura</i> sp. in Wunderlich (2008b)	Pa Baltic amber
Theridion Walckenaer, 1805	?Cretaceous – Recent
485. ' <i>Theridion</i> ' <i>alutaceum</i> C. L. Koch & Berendt, 1854	Pa Baltic amber
486. <i>Theridion annulipes</i> Heer, 1865	Ne Öhningen
487. <i>Theridion atalus</i> Chang, 2004 [both generic and familial assignment unreliable!]	K Jehol Biota
488. ' <i>Theridion</i> ' <i>berendti</i> Marusik & Penney, 2004	Pa Baltic amber
xi. = <i>Theridion globosa</i> C. L. Koch & Berendt, 1854 [preoccupied]	

489. *Theridion bucklandi* Thorell, 1870a Pa Aix-en-Provence
 490. *Theridion contrarium* Wunderlich, 1988 Ne Dominican amber
 491. *Theridion crassipalpus* Berland, 1939 Pa Aix-en-Provence
 492. '*Theridion*' *detersum* C. L. Koch & Berendt, 1854 Pa Baltic amber
 493. *Theridion erectoides* Wunderlich, 1988 Ne Dominican amber
 494. *Theridion erectum* Wunderlich, 1988 Ne Dominican amber
 495. '*Theridion*' *globosus* (Presl, 1822) Pa Baltic amber
 496. *Theridion globulus* Heer, 1865 Ne Öhningen
 497. '*Theridion*' *hirtum* C. L. Koch & Berendt, 1854 Pa Baltic amber
 498. *Theridion inversum* Wunderlich, 1988 Ne Dominican amber
 499. *Theridion maculipes* Heer, 1865 Ne Öhningen
 500. '*Theridion*' *oblongum* (Presl, 1822) Pa Baltic amber
 501. '*Theridion*' *ovale* C. L. Koch & Berendt, 1854 Pa Baltic amber
 502. '*Theridion*' *ovatum* C. L. Koch & Berendt, 1854 Pa Baltic amber
 503. '*Theridion*' *simplex* C. L. Koch & Berendt, 1854 Pa Baltic amber
 504. *Theridion variosoma* Wunderlich, 1988 Ne Dominican amber
 505. *Theridion wunderlichi* Penney, 2001 Ne Dominican amber
 xii. = *Theridion ovale* Wunderlich, 1988 [preoccupied]
- † **Thyelia C. L. Koch & Berendt, 1854** **Palaeogene**
 506. *Thyelia anomala* C. L. Koch & Berendt, 1854 Pa Baltic amber
 507. *Thyelia convexa* C. L. Koch & Berendt, 1854 Pa Baltic amber
 508. *Thyelia fossula* C. L. Koch & Berendt, 1854 Pa Baltic amber
 509. *Thyelia marginata* C. L. Koch & Berendt, 1854 Pa Baltic amber
 510. *Thyelia pallida* C. L. Koch & Berendt, 1854 Pa Baltic amber
 511. *Thyelia scotina* C. L. Koch & Berendt, 1854 Pa Baltic amber
 512. *Thyelia tristis* C. L. Koch & Berendt, 1854* Pa Baltic amber
 513. *Thyelia villosa* C. L. Koch & Berendt, 1854 Pa Baltic amber
- Ulesanis L. Koch, 1872** **Palaeogene – Recent**
 514. *Ulesanis antecessor* Wunderlich, 2008b Pa Baltic Amber
 515. *Ulesanis frontprocera* Wunderlich, 2008b Pa Baltic Amber
 516. *Ulesanis longicymbium* Wunderlich, 2008b Pa Baltic Amber
 517. *Ulesanis ovalis* Wunderlich, 2008b Pa Baltic / Bitt. Amber
 518. *Ulesanis parva* Wunderlich, 2008b Pa Baltic / Bitt. amber
- † **Unispinatoda Wunderlich, 2008b** **Palaeogene**
 519. *Unispinatoda aculeata* Wunderlich, 2008b* Pa Baltic / Bitt. Amber
- † **Vicipholcomma Wunderlich, 2008b** **Palaeogene**
 520. *Vicipholcomma spiralis* Wunderlich, 2008b* Pa Baltic Amber
- Theridiidae incertae sedis**
 521. '*Eomysmena*' *succini* (Petrunkevitch, 1942) Pa Baltic amber
 522. '*Anelosimus*' *clypeatus* Wunderlich, 1988 Ne Dominican amber

THERIDIOSOMATIDAE Simon, 1881	Cretaceous – Recent
Theridiosomatidae gen. et sp. indet <i>in</i> Wunderlich (2004j)	Pa Baltic amber
Theridiosomatidae gen. et sp. indet <i>in</i> Wunderlich (2011f)	Qt Madagascar copal
Baalzebub Coddington, 1986	?Cretaceous – Recent
523. ? <i>Baalzebub mesozoicum</i> Penney, 2014	K Vendée amber
† Eocoddingtonia Selden, 2010	Cretaceous
524. <i>Eocoddingtonia eskovi</i> Selden, 2010*	K Baissa, Transbaikalia
† Eoepeirotypus Wunderlich, 2004j	Palaeogene
525. <i>Eoepeirotypus retrobulbus</i> Wunderlich, 2004j*	Pa Baltic amber
<i>Eoepeirotypus</i> sp. <i>in</i> Wunderlich (2004)	Pa Bitterfeld amber
† Eotheridiosoma Wunderlich, 2004j	Palaeogene
526. ? <i>Eotheridiosoma hamatum</i> Wunderlich, 2011e	Pa Baltic amber
527. <i>Eotheridiosoma tuber</i> Wunderlich, 2004j*	Pa Bitterfeld amber
528. <i>Eotheridiosoma volutum</i> Wunderlich, 2004j	Pa Bitterfeld amber
† Leviunguis Wunderlich, 2012d	Cretaceous
529. <i>Leviunguis bruckschi</i> Wunderlich, 2012d*	K Burmese amber
† Palaeoepeirotypus Wunderlich, 1988	Neogene
530. <i>Palaeoepeirotypus iuvenis</i> Wunderlich, 1988*	Ne Dominican amber
531. <i>Palaeoepeirotypus iuvenoides</i> Wunderlich, 1988	Ne Dominican amber
† Spinitheridiosoma Wunderlich, 2004j	Palaeogene
NB: type species designated from the wrong genus!	
532. <i>Spinitheridiosoma balticum</i> Wunderlich, 2004j	Pa Baltic amber
533. <i>Spinitheridiosoma bispinosum</i> Wunderlich, 2004j	Pa Bitterfeld amber
534. <i>Spinitheridiosoma rima</i> Wunderlich, 2004j	Pa Baltic amber
Theridiosoma O. P.-Cambridge, 1879b	Neogene – Recent
535. <i>Theridiosoma incompletum</i> Wunderlich, 1988	Ne Dominican amber
† Umerosoma Wunderlich, 2004j	Palaeogene
536. <i>Umerosoma multispina</i> Wunderlich, 2004j*	Pa Baltic amber
MYSMENIDAE Petrunkevitch, 1928	Palaeogene – Recent
Mysmeninae sp. <i>in</i> Wunderlich (2004a)	Pa Rovno amber
† Dominicanopsis Wunderlich, 2004k	Neogene
537. <i>Dominicanopsis grimaldii</i> Wunderlich, 2004k*	Ne Dominican amber
† Eomysmenopsis Wunderlich, 2004k	Palaeogene
538. <i>Eomysmenopsis spinipes</i> Wunderlich, 2004k*	Pa Baltic / Bitt. Amber
Mysmena Simon, 1894	Palaeogene – Recent
<i>Mysmena</i> (s. l.) sp. indet <i>in</i> Wunderlich (2012a)	Qt Madagascan copal
539. <i>Mysmena</i> (s.l.) <i>copalis</i> Wunderlich, 2011f	Qt Madagascan copal
540. <i>Mysmena curvata</i> Wunderlich, 2011h	Pa Baltic amber
541. <i>Mysmena dominicana</i> Wunderlich, 1998	Qt Madagascan copal
542. <i>Mysmena fossilis</i> Petrunkevitch, 1971	Ne Chiapas amber

543. *Mysmena groehni* Wunderlich, 2004k Pa Baltic / Bitt. amber
 544. *Mysmena grotae* Wunderlich, 2004k Pa Baltic amber
***Mysmenopsis* Simon, 1897b** **Neogene – Recent**
 545. *Mysmenopsis lissycoleyae* Penney, 2000 Ne Dominican amber
 † ***Palaeomysmena* Wunderlich, 2004k** **Palaeogene**
 546. *Palaeomysmena hoffeinsorum* Wunderlich, 2004k* Pa Baltic amber
- † **BALTSUCCINIDAE Wunderlich, 2004l** **Palaeogene**
 † ***Baltsuccinus* Wunderlich, 2004l** **Palaeogene**
 547. *Baltsuccinus flagellaceus* Wunderlich, 2004l* Pa Baltic amber
 548. *Baltsuccinus similis* Wunderlich, 2004l Pa Baltic amber
- SYMPHYTOGNATHIDAE Hickman, 1931** **Recent**
 no fossil record
- ANAPIDAE Simon, 1895** **Palaeogene – Recent**
 = MICROPHOLCOMMATIDAE Hickman, 1944
 = TEXTRICELLIDAE Hickman, 1945
 = HOLARCHAEIDAE Forster & Platnick, 1984
 = COMAROMIDAE Wunderlich, 2004
 NB: Wunderlich (2011) recognised a family Comaromidae for *Balticoroma*.
- † ***Balticoroma* Wunderlich, 2004k** **Palaeogene**
 = † *Balticorma* [sic] Weitschat & Wichard, 2002 [*nomen nudum*]
549. *Balticoroma damzeni* Wunderlich, 2011h Pa Baltic amber
 550. *Balticoroma ernstorum* Wunderlich, 2004k Pa Baltic/Bitt. amber
 551. *Balticoroma gracilipes* Wunderlich 2004k Pa Baltic/Bitt. amber
 552. *Balticoroma reschi* Wunderlich, 2004k* Pa Baltic amber
 553. *Balticoroma serafinorum* Wunderlich, 2004k Pa Baltic/Bitt. amber
 554. *Balticoroma tibialis* Wunderlich, 2004k Pa Baltic amber
 555. *Balticoroma wheateri* Penney & Marusik in Penney *et al.* (2011) Pa Baltic amber
- † ***Balticonopsis* Wunderlich, 2004k** **Palaeogene**
 556. *Balticonopsis bispina* Wunderlich, 2004k Pa Baltic amber
 557. *Balticonopsis bitterfeldensis* Wunderlich, 2004k Pa Bitterfeld amber
 558. *Balticonopsis bulbosa* Wunderlich, 2004k Pa Baltic amber
 559. *Balticonopsis ceranowiczae* Wunderlich, 2004k Pa Baltic amber
 560. *Balticonopsis distalis* Wunderlich, 2017a Pa Baltic amber
 561. *Balticonopsis dunlopi* Wunderlich, 2017a Pa Baltic amber
 562. *Balticonopsis holti* Wunderlich, 2004k* Pa Baltic amber
 563. *Balticonopsis ludwigi* Wunderlich, 2017a Pa Bitterfeld amber
 564. *Balticonopsis metatarsalis* Wunderlich, 2017a Pa Baltic amber
 565. *Balticonopsis perkovskyi* Wunderlich, 2004ar Pa Rovno amber
 probably belongs to a different genus (cf. Wunderlich 2017a)

566. <i>Balticonopsis thomasi</i> Wunderlich, 2004k	Pa Baltic amber
<i>Balticonopsis</i> sp. in Wunderlich (2004k)	Pa Baltic amber
† Cenotextricella Penney in Penney et al., 2007	Palaeogene
567. <i>Cenotextricella simoni</i> Penney in Penney et al., 2007	Pa Le Quesnoy amber
† Dubianapis Wunderlich, 2004k	Palaeogene
568. <i>Dubianapis obscura</i> Wunderlich, 2004k*	Pa Baltic amber
† Flagellanapis Wunderlich, 2004k	Palaeogene
569. <i>Flagellanapis voigti</i> Wunderlich, 2004k*	Pa Baltic/Bitt. Amber
† Fossilanapis Wunderlich, 2004k	Palaeogene
570. <i>Fossilanapis anderseri</i> Wunderlich, 2004k	Pa Baltic amber
571. <i>Fossilanapis baetcheri</i> Wunderlich, 2004k*	Pa Baltic amber
572. <i>Fossilanapis eichmanni</i> Wunderlich, 2004k	Pa Baltic amber
573. <i>Fossilanapis flexiotarsus</i> Wunderlich, 2004k	Pa Baltic amber
574. <i>Fossilanapis multispinae</i> Wunderlich, 2011h	Pa Baltic amber
575. <i>Fossilanapis saltans</i> Wunderlich, 2004k	Pa Baltic amber
576. <i>Fossilanapis unispinum</i> Wunderlich, 2004k	Pa Baltic amber
<i>Fossilanapis</i> sp. in Wunderlich (2004k)	Pa Bitterfeld amber
<i>Fossilanapis</i> sp. in Wunderlich (2011h)	Pa Baltic amber
† Palaeoanapis Wunderlich, 1988	Neogene
577. <i>Palaeoanapis nana</i> Wunderlich, 1988*	Ne Dominican amber
† Ruganapis Wunderlich, 2004k	Palaeogene
578. <i>Ruganapis scutata</i> Wunderlich, 2004k*	Pa Baltic amber
† Saxonanapis Wunderlich, 2004k	Palaeogene
579. <i>Saxonanapis grabenhorsti</i> Wunderlich, 2004k*	Pa Baltic/Bitt. Amber
† Tuberanapis Wunderlich, 2004k	Palaeogene
580. <i>Tuberanapis parvibulbus</i> Wunderlich, 2004k*	Pa Baltic amber
† JURARANEIDAE Eskov, 1984	Jurassic
† <i>Juraraneus</i> Eskov, 1984	Jurassic
581. <i>Juraraneus rasnitsyni</i> Eskov, 1984	J Transbaikalia
NB : Wunderlich (2015b) suggested this could be a haplogyne spider	
† PRAEARANEIDAE Wunderlich, 2017c	Cretaceous
† <i>Praearaneus</i> Wunderlich, 2017c	Cretaceous
582. <i>Praearaneus bruckschi</i> Wunderlich, 2017c	K Burmese amber
<i>Praearaneus</i> sp. in Wunderlich (2017c)	K Burmese amber
ARANEIDAE Simon, 1895	Cretaceous – Recent
= EPEIRIDAE Sundevall, 1833 [based on a generic synonym]	
= EUETRIIDAE Thorell, 1887 [based on a generic synonym]	
= ARGIOPIDAE Simon, 1890	
= NEPHILIDAE Simon, 1894	

= ZYGIELLIDAE Simon, 1929

?Araneinae sp. <i>in</i> Wunderlich (2004 <i>h</i>)	Pa	Baltic amber
Araneidae gen. et sp. indet. <i>in</i> Ribera (2003)	Qt	Girona, Spain
?Mangorini indet. <i>in</i> Wunderlich (2011 <i>a</i>)	Pa	Baltic amber
Nephilidae indet. <i>in</i> Wunderlich (2012 <i>c</i>)	Pa	Baltic amber
Araneidae <i>incertae sedis in</i> Selden (2014 <i>b</i>)	Pa	Isle of Wight
† Anepeira Wunderlich, 2004<i>i</i>		Palaeogene
583. <i>Anepeira complicata</i> Wunderlich, 2004*	Pa	Baltic amber
† Araneometa Wunderlich, 1988		Neogene
584. <i>Araneometa excelsa</i> Wunderlich, 1988	Ne	Dominican amber
585. <i>Araneometa herrlingi</i> Wunderlich, 1988*	Ne	Dominican amber
586. <i>Araneometa spirembolus</i> Wunderlich, 1988	Ne	Dominican amber
<i>Araneometa</i> sp. <i>in</i> Wunderlich (1988)	Ne	Dominican amber
Araneus Clerck, 1757		?Cretaceous – Recent
587. <i>Araneus absconditus</i> (Scudder, 1890 <i>a</i>)	Pa	Florissant
588. <i>Araneus aethus</i> Chang, 2004 [generic assignment unreliable!]	K	Jehol biota
589. <i>Araneus beipiaoensis</i> Chang, 2004 [generic assignment unreliable!]	K	Jehol biota
590. <i>Araneus carbonaceous</i> Zhang, Sun & Zhang, 1994	Ne	Shanwang
591. <i>Araneus cinefactus</i> (Scudder, 1890 <i>a</i>)	Pa	Florissant
592. <i>Araneus defunctus</i> Petrunkevitch, 1958	Pa	Baltic amber
593. <i>Araneus delitus</i> (Scudder, 1890 <i>a</i>)	Pa	Florissant
594. <i>Araneus emertoni</i> (Scudder, 1890 <i>a</i>)	Pa	Florissant
595. <i>Araneus exustus</i> Petrunkevitch, 1963	Ne	Chiapas amber
596. <i>Araneus kinchloeae</i> Dunlop & Jekel, 2009	Pa	Florissant
xiii. = <i>Araneus indistinctus</i> (Petrunkevitch, 1922) [preoccupied]		
597. <i>Araneus inelegans</i> Zhang, Sun & Zhang, 1994	Ne	Shanwang
598. <i>Araneus leptopodus</i> Zhang, Sun & Zhang, 1994	Ne	Shanwang
599. <i>Araneus liaoxiensis</i> Chang, 2004 [generic assignment unreliable!]	K	Jehol biota
600. <i>Araneus longimanus</i> (Petrunkevitch, 1922)	Pa	Florissant
601. <i>Araneus (Calinurus) longipes</i> Dalman, 1826	Qt	Copal
602. <i>Araneus luianus</i> Zhang, Sun & Zhang, 1994	Ne	Shanwang
603. <i>Araneus meeki</i> (Scudder, 1890 <i>a</i>)	Pa	Florissant
604. <i>Araneus molassicus</i> (Heer, 1865)	Ne	Öhningen
605. <i>Araneus nanus</i> Wunderlich, 1988	Ne	Dominican amber
606. <i>Araneus piceus</i> Lin, Zhang & Wang, 1989	Ne	Shanwang
607. <i>Araneus reheensis</i> Chang, 2004 [generic assignment unreliable!]	K	Jehol biota
608. <i>Araneus ruidipedalis</i> Zhang, Sun & Zhang, 1994	Ne	Shanwang
609. <i>Araneus troschellii</i> (Bertkau, 1878 <i>b</i>)	Ne	Rott, Germany
610. <i>Araneus vulcanalis</i> (Scudder, 1890 <i>a</i>)	Pa	Florissant
? <i>Araneus</i> sp. <i>in</i> Wunderlich (2012 <i>c</i>)	Pa	Baltic amber
Argiope Audouin, 1826		Neogene – Recent

	= † <i>Magnaranea</i> Hong, 1985	
611.	<i>Argiope furva</i> (Hong, 1985)	Ne Shanwang
†	Bararaneus Wunderlich, 2004i	Palaeogene
612.	? <i>Bararaneus annulatus</i> Wunderlich, 2004i	Pa Baltic amber
613.	<i>Bararaneus evolvens</i> Wunderlich, 2004i*	Pa Baltic amber
†	Chrysometata Wunderlich, 2004h	Palaeogene
614.	<i>Chrysometata palaeartica</i> Wunderlich, 2004h*	Pa Baltic amber
†	Cretaraneus Selden, 1990	Cretaceous
615.	<i>Cretaraneus liaoningensis</i> Cheng, Meng & Wang in Cheng <i>et al.</i> , 2008	K Jehol biota
616.	<i>Cretaraneus martensnetoi</i> Mesquita, 1996	K Crato Formation
617.	<i>Cretaraneus vilaltae</i> Selden, 1990*	K Sierra de Montsech
†	Cyclososoma Petrunkevitch, 1958	Palaeogene
618.	<i>Cyclososoma succini</i> Petrunkevitch, 1958*	Pa Baltic amber
	Enacrosoma Mello-Leitão, 1932	Neogene – Recent
619.	<i>Enacrosoma verrucosa</i> (Wunderlich, 1988)	Ne Dominican amber
†	Eoaraneus Wunderlich, 2004i	Palaeogene
620.	<i>Eoaraneus complexus</i> Wunderlich, 2004i*	Pa Baltic amber
†	Eochorizopes Wunderlich, 2008a	Palaeogene
621.	<i>Eochorizopes szeklinskiae</i> Wunderlich, 2008a*	Pa Baltic amber
†	Eonephila Wunderlich, 2004i	Palaeogene
622.	<i>Eonephila bitterfeldensis</i> Wunderlich, 2004i	Pa Bitterfeld amber
623.	<i>Eonephila excellens</i> Wunderlich, 2004i*	Pa Baltic amber
624.	<i>Eonephila longembolus</i> Wunderlich, 2004i	Pa Baltic amber
†	Eozygiella Wunderlich, 2004h	Palaeogene
625.	<i>Eozygiella compacta</i> Wunderlich, 2004h*	Pa Baltic amber
†	Eustaloides Petrunkevitch, 1842	Palaeogene
	= † <i>Graea</i> Thorell, 1869 [older synonym, but preoccupied]	
626.	? <i>Eustaloides aberrans</i> (Wunderlich, 2004h)	Pa Baltic amber
627.	<i>Eustaloides bitterfeldensis</i> (Wunderlich, 2004h)	Pa Bitterfeld amber
628.	<i>Eustaloides breviembolus</i> (Wunderlich, 2004h)	Pa Baltic amber
629.	<i>Eustaloides brevis</i> (Wunderlich, 2004h)	Pa Baltic amber
630.	<i>Eustaloides calceatus</i> Petrunkevitch, 1950	Pa Baltic amber
631.	<i>Eustaloides epeiroidea</i> (C. L. Koch & Berendt, 1854)	Pa Baltic amber
632.	<i>Eustaloides impudica</i> (Wunderlich, 2004h)	Pa Baltic amber
633.	<i>Eustaloides lingula</i> (Wunderlich, 2004h)	Pa Baltic amber
634.	<i>Eustaloides magnocoli</i> (Wunderlich, 2012c)	Pa Baltic amber
635.	<i>Eustaloides minor</i> Petrunkevitch, 1950	Pa Baltic amber
636.	<i>Eustaloides setosa</i> Petrunkevitch, 1942*	Pa Baltic amber
637.	<i>Eustaloides succini</i> Petrunkevitch, 1942	Pa Baltic amber
†	Fossilaraneus Wunderlich, 1988	Neogene

638. <i>Fossilaraneus incertus</i> Wunderlich, 1988*	Ne Dominican amber
Gea C. L. Koch, 1843a	Neogene – Recent
639. <i>Gea krantzi</i> von Heyden, 1859	Ne Rott, Germany
Hypognatha Guérin, 1839	Quaternary – Recent
640. <i>Hypognatha testudinaria</i> (Taczanowski, 1879) [Recent]	Qt Colombian copal
† Luxurionephila Wunderlich, 2004i	Palaeogene
641. <i>Luxurionephila spinifera</i> Wunderlich, 2004i	Pa Baltic amber
† Meditrina Petrunkevitch, 1942	Palaeogene
642. <i>Meditrina circumvallata</i> Petrunkevitch, 1942*	Pa Baltic amber
† Mesozygiella Penney & Ortuño, 2006	Cretaceous
643. <i>Mesozygiella dunlopi</i> Penney & Ortuño, 2006*	K Álava amber
† Minutunguis Wunderlich, 2011f	Quaternary
644. <i>Minutunguis silvestris</i> Wunderlich, 2011f*	Qt Madagascan copal
† Miraraneus Wunderlich, 2004i	Palaeogene
645. <i>Miraraneus peregrinus</i> Wunderlich, 2004*	Pa Baltic amber
† Mirometa Petrunkevitch, 1963	Neogene
646. <i>Mirometa valdespinosa</i> Petrunkevitch, 1963	Ne Chiapas amber
Molinaranea Mello-Leitão, 1940	Neogene – Recent
647. <i>Molinaranea mitnickii</i> Saupe, Selden & Penney, 2010	Ne Dominican amber
Nephila Leach, 1815	Cretaceous – Recent
= † <i>Geratonephila</i> Poinar in Poinar & Buckley, 2012	
648. <i>Nephila breviembolus</i> Wunderlich, 1986	Ne Dominican amber
649. <i>Nephila burmanica</i> (Poinar in Poinar & Buckley, 2012)	K Burmese amber
NB: Wunderlich (2015b) suggested that this may be a synonym of <i>N. tenuis</i>	
650. <i>Nephila dommeli</i> Wunderlich, 1982	Ne Dominican amber
651. <i>Nephila furca</i> Wunderlich, 1986	Ne Dominican amber
652. <i>Nephila longembolus</i> Wunderlich, 1986	Ne Dominican amber
653. <i>Nephila pennatipes</i> Scudder, 1885	Pa Florissant
654. <i>Nephila tenuis</i> Wunderlich, 1986	Ne Dominican amber
<i>Nephila</i> sp. in Dunlop & Penney (2012)	K Crato Formation
† Palaeonephila Wunderlich, 2004i	Palaeogene
655. <i>Palaeonephila brevis</i> Wunderlich, 2004i	Pa Baltic amber
656. <i>Palaeonephila curvata</i> Wunderlich, 2004i*	Pa Baltic amber
657. <i>Palaeonephila dilitans</i> Wunderlich, 2004i	Pa Baltic amber
658. <i>Palaeonephila fibula</i> Wunderlich, 2004i	Pa Baltic amber
659. <i>Palaeonephila longipes</i> Wunderlich, 2004i	Pa Baltic amber
† Pycnosinga Wunderlich, 1988	Neogene
660. <i>Pycnosinga fossilis</i> Wunderlich, 1988*	Ne Dominican amber
† Pulchellaranea Poinar, 2015	Neogene
661. <i>Pulchellaranea pedunculata</i> Poinar, 2015*	Ne Dominican amber
† Testudinaroides Dunlop & Jekel, 2008	Neogene

- = † *Testudinaria* Zhang, Sun & Zhang, 1994 [preoccupied]
662. *Testudinarioides papposa* (Zhang, Sun & Zhang, 1994) Ne Shanwang
- † **Tethneus Scudder, 1885** **Palaeogene**
- = † *Melanites* Hong, 1985
663. *Tethneus guyoti* Scudder, 1890a Pa Florissant
664. *Tethneus hentzi* Scudder, 1885* Pa Florissant
665. *Tethneus obduratus* Scudder, 1890a Pa Florissant
666. *Tethneus orbiculatus* (Hong, 1985) Ne Shanwang
667. *Tethneus provectus* Scudder, 1890a Pa Florissant
668. *Tethneus robustus* Petrunkevitch, 1922 Pa Florissant
669. *Tethneus twenhofeli* Petrunkevitch, 1922 Pa Florissant
- Zilla C. L. Koch, 1834** **Palaeogene – Recent**
670. *Zilla gracilis* C. L. Koch & Berendt, 1854 Pa Baltic amber
671. *Zilla porrecta* C. L. Koch & Berendt, 1854 Pa Baltic amber
672. *Zilla veterana* C. L. Koch & Berendt, 1854 Pa Baltic amber
- MALKARIDAE Davies, 1980** **Recent**
- = PARARCHAEIDAE Forster & Platnick, 1984
- = STERNODIDAE Moran, 1986
- no fossil record
- MIMETIDAE Simon, 1881** **Palaeogene – Recent**
- = CTENOPHORIDAE Blackwall, 1870 [younger name protected by useage]
- Mimetidae gen. et sp. indet. *in* Penney *et al.* (2012a) Pa Indian amber
- Mimetini sp. 1–4 *in* Wunderlich (2004q) Pa Baltic amber
- Ero C. L. Koch, 1836** **Palaeogene – Recent**
- = † *Palaeoero* Wunderlich, 2004q
- = † *Succinero* Wunderlich, 2004q
- [Wunderlich revalidated both as putative subgenera]
673. *Ero carboneana* Petrunkevitch, 1942 Pa Baltic amber
674. *Ero aberrans* Petrunkevitch, 1958 Pa Baltic amber
- NB: Treated as a *nomen dubium* by Harms & Dunlop (2009)
675. *Ero (Succinero) clunis* Wunderlich, 2012c Pa Baltic amber
676. *Ero (Succinero) gracilitibialis* Wunderlich, 2012c Pa Baltic amber
677. *Ero (Paleoero) longitarsus* (Wunderlich, 2004q) Pa Baltic amber
678. *Ero permunda* Petrunkevitch, 1942 Pa Baltic amber
679. *Ero (Succinero) rovnoensis* (Wunderlich, 2004ar) Pa Rovno amber
680. *Ero (Succinero) veta* Wunderlich, 2012c Pa Baltic amber
- Mimetus Hentz, 1832** **Palaeogene – Recent**
681. *Mimetus bituberculatus* Wunderlich, 1988 Ne Dominican amber
682. *Mimetus brevipes* Wunderlich, 2004q Pa Baltic amber
- NB: synonymised by Harms & Dunlop (2009), but resurrected by Wunderlich (2012c)

683. ? <i>Mimetus longipes</i> Wunderlich, 2004 <i>q</i>	Pa Baltic amber
? <i>Mimetus</i> sp. in Wunderlich (1988)	Ne Dominican amber
† Protomimetus Wunderlich, 2011	Palaeogene
684. ? <i>Protomimetus breviclypeus</i> Wunderlich, 2011 <i>h</i>	Pa Baltic amber
685. <i>Protomimetus longiclypeus</i> Wunderlich, 2011 <i>h</i> *	Pa Baltic amber
ARKYIDAE L. Koch, 1872	
no fossil record	
TETRAGNATHIDAE Menge, 1866	Cretaceous – Recent
= PACHYGNATHIDAE Menge, 1866	
= METIDAE Simon, 1894	
= NANOMETIDAE Forster & Forster, 1999	
† Anameta Wunderlich, 2004<i>h</i>	Palaeogene
686. <i>Anameta distenda</i> Wunderlich, 2004 <i>h</i> *	Pa Bitterfeld amber
687. <i>Anameta kuntneri</i> Wunderlich, 2008 <i>a</i>	Pa Baltic amber
Azilia Keyserling, 1882	Neogene – Recent
688. <i>Azilia hispaniolensis</i> Wunderlich, 1988	Ne Dominican amber
i. = <i>Azilia muellenmeisteri</i> Wunderlich, 1988	Ne Dominican amber
<i>Azilia</i> sp. in Wunderlich (1988)	Ne Dominican amber
† Balticgnatha Wunderlich, 2011<i>h</i>	Palaeogene
689. <i>Balticgnatha projectens</i> Wunderlich 2011 <i>h</i> *	Pa Baltic amber
† Baltleucauge Wunderlich, 2008<i>a</i>	Palaeogene
690. <i>Baltleucauge gillespieae</i> Wunderlich 2008 <i>a</i> *	Pa Baltic amber
691. <i>Baltleucauge propinqua</i> Wunderlich, 2012 <i>c</i>	Pa Baltic amber
† Corneometa Wunderlich, 2004<i>h</i>	Palaeogene
692. <i>Corneometa baltica</i> Wunderlich 2004 <i>h</i> *	Pa Baltic amber
693. <i>Corneometa pilosipes</i> Wunderlich 2004 <i>h</i>	Pa Baltic amber
Cyrtognatha Keyserling, 1882	Neogene – Recent
694. <i>Cyrtognatha weitschati</i> Wunderlich, 1988	Ne Dominican amber
† Eometa Petrunkevitch, 1958	Palaeogene
695. <i>Eometa calefacta</i> Wunderlich, 2004 <i>h</i>	Pa Baltic amber
696. <i>Eometa longipes</i> Petrunkevitch, 1958	Pa Baltic amber
697. <i>Eometa occulta</i> Wunderlich, 2004 <i>h</i>	Pa Baltic amber
698. <i>Eometa perfecta</i> Wunderlich, 2004 <i>h</i>	Pa Baltic amber
699. <i>Eometa samlandica</i> Petrunkevitch, 1958*	Pa Baltic amber
<i>Eometa</i> sp. 1–2 in Wunderlich (2004 <i>h</i>)	Pa Baltic amber
Homalometa Simon, 1897<i>b</i>	Neogene – Recent
700. <i>Homalometa fossilis</i> Wunderlich, 1988	Ne Dominican amber
† Huergina Selden & Penney, 2003	Cretaceous
701. <i>Huergina diazromerali</i> Selden & Penney, 2003*	K Las Hoyas, Spain
† Macryphantes Selden, 1990	Cretaceous

NB: Wunderlich (2015b) suggested this genus could be a synonym of *Paleouloborus*.

702. <i>Macryphantes cowdeni</i> Selden, 1990*	K Sierra de Montsech
Meta C. L. Koch, 1836	Palaeogene – Recent
703. <i>Meta (Praetermeta) maculosa</i> Wunderlich, 2008a	Pa Baltic amber
704. <i>Meta (Praetermeta) velans</i> (Wunderlich, 2004h)	Pa Baltic amber
† Palaeometa Petrunkevitch, 1922	Palaeogene
705. <i>Palaeometa opertanea</i> (Scudder, 1890a)*	Pa Florissant
† Palaeopachygnatha Petrunkevitch, 1922	Palaeogene
706. <i>Palaeopachygnatha cockerelli</i> Petrunkevitch, 1922	Pa Florissant
707. <i>Palaeopachygnatha scudderi</i> Petrunkevitch, 1922*	Pa Florissant
† Priscometa Petrunkevitch, 1958	Palaeogene
708. <i>Priscometa capta</i> Wunderlich, 2004h	Pa Baltic amber
709. <i>Priscometa minor</i> Wunderlich, 2004h	Pa Baltic amber
710. <i>Priscometa tenuipes</i> Petrunkevitch, 1958*	Pa Baltic amber
† Samlandicmeta Wunderlich, 2012c	Palaeogene
711. <i>Samlandicmeta mutila</i> Wunderlich, 2012c	Pa Baltic amber
Tetragnatha Latreille, 1804a	Palaeogene – Recent
712. <i>Tetragnatha parva</i> (Hong, 1985)	Ne Shanwang
713. <i>Tetragnatha pristina</i> Schawaller, 1982c	Ne Dominican amber
714. <i>Tetragnatha tertiaria</i> Scudder, 1885	Pa Florissant
SYNOTAXIDAE Simon, 1894	Palaeogene – Recent
† Acrometa Petrunkevitch, 1942	Palaeogene
= † <i>Eogonatium</i> Petrunkevitch, 1942	
= † <i>Liticen</i> Petrunkevitch, 1942	
= † <i>Theridiometa</i> Petrunkevitch, 1942	
= † <i>Viocurus</i> Petrunkevitch, 1958	
715. <i>Acrometa clava</i> Wunderlich, 2004n	Pa Baltic amber
716. <i>Acrometa cristata</i> Petrunkevitch, 1942*	Pa NE Europe ambers
i. = <i>Theridiometa edwardsi</i> Petrunkevitch, 1942	Pa Baltic amber
ii. = <i>Viocurus fossilis</i> Petrunkevitch, 1958	Pa Baltic amber
717. <i>Acrometa eichmanni</i> Wunderlich, 2004n	Pa Baltic amber
718. <i>Acrometa incidens</i> Wunderlich, 2004n	Pa Baltic amber
719. <i>Acrometa minutum</i> (Petrunkevitch, 1942)	Pa Baltic amber
720. <i>Acrometa pala</i> Wunderlich, 2004n	Pa Baltic amber
721. <i>Acrometa robusta</i> (Petrunkevitch, 1942)	Pa Baltic amber
722. <i>Acrometa pseudorobusta</i> Dunlop & Jekel, 2009	Pa Baltic amber
i. = <i>Acrometa robusta</i> (Petrunkevitch, 1946) [preoccupied]	
723. <i>Acrometa samlandica</i> (Petrunkevitch, 1942)	Pa Baltic amber
724. <i>Acrometa setosus</i> (Petrunkevitch, 1942)	Pa Baltic amber
725. <i>Acrometa succini</i> Petrunkevitch, 1942	Pa Baltic amber
† Anandrus Menge, 1856	Palaeogene

= † *Elucus* Petrunkevitch, 1942

726. <i>Anandrus inermis</i> (Petrunkevitch, 1942)	Pa Baltic amber
727. <i>Anandrus infelix</i> (Petrunkevitch, 1950)*	Pa Baltic amber
728. <i>Anandrus quaesitus</i> (Petrunkevitch, 1958)	Pa Baltic amber
729. <i>Anandrus redemptus</i> (Petrunkevitch, 1958)	Pa Baltic amber
† <i>Chelicerinus</i> Wunderlich, 2008a	Palaeogene
730. <i>Chelicerinus abnormis</i> Wunderlich, 2008a	Pa Bitterfeld amber
† <i>Cornuanandrus</i> Wunderlich, 1986	Palaeogene
731. <i>Cornuanandrus bifurcatus</i> Wunderlich, 2004n	Pa Bitterfeld amber
732. <i>Cornuanandrus bitterfeldensis</i> Wunderlich, 2004n	Pa Bitterfeld amber
733. <i>Cornuanandrus corniculans</i> Wunderlich, 2004n	Pa Baltic amber
734. <i>Cornuanandrus maior</i> Wunderlich, 1986*	Pa Baltic amber
735. <i>Cornuanandrus minor</i> Wunderlich, 2004n	Pa Baltic amber
† <i>Dubiosynotaxus</i> Wunderlich, 2004n	Palaeogene
736. <i>Dubiosynotaxus perfectus</i> Wunderlich, 2004n*	Pa Baltic amber
† <i>Eosynotaxus</i> Wunderlich, 2004n	Palaeogene
737. <i>Eosynotaxus bispinosus</i> Wunderlich, 2004n	Pa Baltic amber
738. <i>Eosynotaxus bitterfeldensis</i> Wunderlich, 2004n	Pa Bitterfeld amber
739. <i>Eosynotaxus custodens</i> Wunderlich, 2004n	Pa Baltic amber
740. <i>Eosynotaxus fastigatus</i> Wunderlich, 2004n	Pa Baltic amber
741. <i>Eosynotaxus paucispina</i> Wunderlich, 2004n	Pa Baltic amber
742. <i>Eosynotaxus spinipes</i> Wunderlich, 2004n	Pa Baltic amber
743. <i>Eosynotaxus wegneri</i> Wunderlich, 2004n*	Pa Baltic amber
† <i>Gibbersynotaxus</i> Wunderlich, 2004n	Palaeogene
744. <i>Gibbersynotaxus parvus</i> Wunderlich, 2004n*	Pa Baltic amber
† <i>Protophysoglenes</i> Wunderlich, 2004n	Palaeogene
745. <i>Protophysoglenes impressum</i> Wunderlich, 2004n*	Pa Baltic amber
† <i>Pseudoacrometa</i> Wunderlich, 1986	Palaeogene
746. <i>Pseudoacrometa gracilipes</i> Wunderlich, 1986*	Pa Baltic amber
747. <i>Pseudoacrometa wittmanni</i> Wunderlich, 2004n	Pa Baltic amber
† <i>Succinitaxus</i> Wunderlich, 2004n	Palaeogene
748. <i>Succinitaxus brevis</i> Wunderlich, 2004n*	Pa European ambers
749. ? <i>Succinitaxus minutus</i> Wunderlich, 2004n	Pa Baltic amber
† <i>Sulcosynotaxus</i> Wunderlich, 2004n	Palaeogene
750. <i>Sulcosynotaxus cavatus</i> Wunderlich, 2004n*	Pa Baltic amber
NESTICIDAE Simon, 1894	Palaeogene – Recent
† <i>Balticonesticus</i> Wunderlich, 1986	Palaeogene
751. <i>Balticonesticus flexuosus</i> Wunderlich, 1986*	Pa Baltic amber
<i>Eidmanella</i> Roewer, 1935	Quaternary
752. <i>Eidmanella pallida</i> (Emerton, 1875) [Recent]	Qt Madagascar copal

† Eopopino Petrunkevitch, 1942	Palaeogene
753. <i>Eopopino budrysi</i> Eskov & Marusik, 1992	Pa Baltic amber
754. <i>Eopopino inopinatus affinis</i> Wunderlich, 1986	Pa Baltic amber
755. <i>Eopopino inopinatus inopinatus</i> Wunderlich, 1986	Pa Baltic amber
756. <i>Eopopino longipes</i> Petrunkevitch, 1942*	Pa Baltic amber
757. <i>Eopopino palanga</i> Eskov & Marusik, 1992	Pa Baltic amber
758. <i>Eopopino rarus rarus</i> Wunderlich, 1986	Pa Baltic amber
759. <i>Eopopino rarus solitarius</i> Wunderlich, 1986	Pa Baltic amber
760. <i>Eopopino rudloffii</i> Wunderlich, 2004o	Pa Bitterfeld amber
<i>Eopopino</i> sp. in Wunderlich (1986)	Pa Bitterfeld amber
† Heteronesticus Wunderlich, 1986	Palaeogene
761. <i>Heteronesticus magnoparacymbialis</i> Wunderlich, 1986*	Pa Baltic amber
† Hispanonesticus Wunderlich, 1986	Neogene
762. <i>Hispanonesticus latopalpus</i> Wunderlich, 1986*	Ne Dominican amber
CYATHOLIPIDAE Simon, 1894	Palaeogene – Recent
= TEEMENAARIDAE Davies, 1978	
† Balticolipus Wunderlich, 2004m	Palaeogene
763. <i>Balticolipus kruemmeri</i> Wunderlich, 2004m*	Pa Baltic / Bitt. amber
† Cyathosuccinus Wunderlich, 2004m	Palaeogene
764. <i>Cyathosuccinus elongatus</i> Wunderlich, 2004m*	Pa Baltic amber
† Erigolipus Wunderlich, 2004m	Palaeogene
765. <i>Erigolipus griswoldi</i> Wunderlich, 2004m*	Pa Baltic amber
† Spinilipus Wunderlich, 1993b	Palaeogene
766. <i>Spinilipus bispinosus</i> Wunderlich, 2004m	Pa Bitterfeld amber
767. <i>Spinilipus curvatus</i> Wunderlich, 2004m	Pa Bitterfeld amber
768. <i>Spinilipus glinki</i> Wunderlich, 2004m	Pa Baltic amber
769. <i>Spinilipus kerneggeri</i> Wunderlich, 1993b*	Pa Baltic amber
770. <i>Spinilipus longembolus</i> Wunderlich, 2004m	Pa Baltic amber
† Succinilipus Wunderlich, 1993b	Palaeogene
771. <i>Succinilipus abditus</i> Wunderlich, 2004m	Pa Baltic / Bitt. amber
772. <i>Succinilipus aspinosus</i> Wunderlich, 2004m	Pa Bitterfeld amber
773. <i>Succinilipus saxoniensis</i> Wunderlich, 1993b	Pa Bitterfeld amber
774. <i>Succinilipus similis</i> Wunderlich, 2004m	Pa Bitterfeld amber
775. <i>Succinilipus teuberi</i> Wunderlich, 1993b*	Pa Baltic amber
<i>Succinilipus</i> sp. in Wunderlich (2004m)	Pa Baltic / Bitt. Amber
PHYSOGLLENIDAE Petrunkevitch, 1928	
no fossil record	
PIMOIDAE Wunderlich, 1986	Palaeogene – Recent
Pimoidae Chamberlin & Ivie, 1943	Palaeogene – Recent

776. <i>Pimoida expandens</i> Wunderlich, 2004r	Pa	Baltic amber
777. <i>Pimoida (Eopimoida) hormigai</i> Wunderlich, 2004r	Pa	Baltic amber
778. <i>Pimoida inopinata</i> Wunderlich, 2004r	Pa	Baltic amber
779. <i>Pimoida liedtkei</i> Wunderlich, 2004r	Pa	Baltic amber
780. <i>Pimoida lingua</i> Wunderlich, 2004r	Pa	Baltic amber
781. <i>Pimoida (Eopimoida) longiscapus</i> Wunderlich, 2008a	Pa	Baltic amber
782. <i>Pimoida multicuspuli</i> Wunderlich, 2004r	Pa	Baltic amber
783. <i>Pimoida (Eopimoida) obruens</i> Wunderlich, 2008a	Pa	Baltic amber
<i>Pimoida</i> sp. in Wunderlich (2004r)	Pa	Baltic amber
<i>Pimoida (Eopimoida)</i> sp. in Wunderlich (2008a)	Pa	Baltic amber
PUMILIOPIMOIDAE Wunderlich, 2008a	Palaeogene – Recent	
† <i>Pumiliopimoida</i> Wunderlich, 2008a	Palaeogene	
784. <i>Pumiliopimoida parma</i> Wunderlich, 2008a*	Pa	Baltic amber
LINYPHIIDAE Blackwall, 1859	Cretaceous – Recent	
= MICRYPHANTIDAE Bertkau, 1878a		
= ERIGONIDAE Simon, 1884c		
= SINOPIMOIDAE Li & Wunderlich, 2008		
?Linyphiidae gen. et sp. indet in McAlpine & Martin (1969)	K	Canadian amber
Linyphiidae gen. et sp. indet in Penney (2002)	K	New Jersey amber
Linyphiidae gen. et sp. indet in Schmidt <i>et al.</i> (2010)	Ne	Ethiopian amber
Linyphiinae gen. et sp. indet in Penney & Selden (2002)	K	Lebanese amber
[NB: Wunderlich (2012d) questioned the veracity of these Cretaceous linyphiids.]		
† <i>Agynetiophantes</i> Wunderlich, 2004s	Palaeogene	
785. <i>Agynetiophantes gibbiferus</i> Wunderlich, 2004s*	Pa	Baltic amber
<i>Ceratinopsis</i> Emerton, 1882	Quaternary – Recent	
786. <i>Ceratinopsis deformans</i> (Wunderlich, 1998)	Qt	Madagascan copal
<i>Cnephalocotes</i> Simon, 1884c	Quaternary – Recent	
787. <i>Cnephalocotes obscurus</i> (Blackwall, 1834b) [Recent]	Qt	England
† <i>Custodela</i> Petrunkevitch, 1942	Palaeogene	
= † <i>Obnissus</i> Petrunkevitch, 1942 [tentative synonymy]		
788. <i>Custodela acuta</i> Wunderlich, 2004s	Pa	Baltic amber
789. <i>Custodela acutula</i> Wunderlich, 2004s	Pa	Bitterfeld amber
790. <i>Custodela bispina</i> Wunderlich, 2004s	Pa	Bitterfeld amber
791. <i>Custodela bispinosa</i> Wunderlich, 2004s	Pa	Bitterfeld amber
792. <i>Custodela cheiracantha</i> (C. L. Koch & Berendt, 1854)*	Pa	Baltic amber
793. <i>Custodela clava</i> Wunderlich, 2004s	Pa	Baltic amber
794. <i>Custodela curva</i> Wunderlich, 2004s	Pa	Baltic amber
795. <i>Custodela curvata</i> Wunderlich, 2004s	Pa	Bitterfeld amber
796. <i>Custodela divergens</i> Wunderlich, 2004s	Pa	Baltic amber
797. <i>Custodela expandens</i> Wunderlich, 2004s	Pa	Baltic amber

798. <i>Custodela falcata</i> Wunderlich, 2004s	Pa Baltic amber
799. <i>Custodela femurspinosa</i> Wunderlich, 2004s	Pa Bitterfeld amber
800. <i>Custodela henningseni</i> Wunderlich, 2004s	Pa Baltic amber
801. <i>Custodela kochi</i> Wunderlich, 2004s	Pa Baltic amber
802. <i>Custodela lamellata</i> (Wunderlich, 1988)	Pa Baltic amber
803. <i>Custodela lanx</i> Wunderlich, 2004s	Pa Baltic amber
804. <i>Custodela oblonga</i> (C. L. Koch & Berendt, 1854)	Pa Baltic amber
805. <i>Custodela obtusa</i> Wunderlich, 2004s	Pa Baltic amber
806. ? <i>Custodela parva</i> Wunderlich, 2004s	Pa Bitterfeld amber
807. <i>Custodela pseudokochi</i> Wunderlich, 2004s	Pa Baltic amber
808. <i>Custodela stridulans</i> Wunderlich, 2004s	Pa Bitterfeld amber
809. <i>Custodela tenuipes</i> (Petrunkevitch, 1942)	Pa Baltic amber
810. <i>Custodela tibialis</i> Wunderlich, 2004s	Pa Baltic amber
<i>Custodela</i> sp. in Wunderlich (2004s)	Pa Bitterfeld amber
† <i>Custodelela</i> Wunderlich, 2004s	Palaeogene
811. <i>Custodelela hamata</i> Wunderlich, 2004s*	Pa Bitterfeld amber
† <i>Eolabulla</i> Wunderlich, 2004s	Palaeogene
812. <i>Eolabulla falcata</i> Wunderlich, 2004s	Pa Baltic amber
813. <i>Eolabulla gladiformis</i> Wunderlich, 2004s	Pa Baltic amber
814. <i>Eolabulla laminata</i> Wunderlich, 2004s*	Pa Baltic amber
815. <i>Eolabulla perforata</i> Wunderlich, 2004s	Pa Baltic amber
816. <i>Eolabulla sagitta</i> Wunderlich, 2004s	Pa Baltic amber
817. <i>Eolabulla similis</i> Wunderlich, 2004s	Pa Baltic amber
<i>Eolabulla</i> sp. 1–2 in Wunderlich (2004s)	Pa Baltic amber
† <i>Eophantes</i> Wunderlich, 2004s	Palaeogene
818. <i>Eophantes complicatus</i> Wunderlich, 2004s*	Pa Baltic amber
819. ? <i>Eophantes seorsum</i> Wunderlich, 2012c	Pa Baltic amber
<i>Erigone</i> Audouin, 1826	Neogene – Recent
820. <i>Erigone atra</i> Blackwall, 1833 [Recent]	Qt England
821. ? <i>Erigone dechenii</i> Bertkau, 1878b	Ne Rott, Germany
<i>Erigone</i> sp. in Hopkins et al. (1976)	Qt Alaska
<i>Floricomus</i> Crosby & Bishop, 1925	Neogene – Recent
822. <i>Floricomus fossilis</i> Penney, 2005c	Ne Dominican amber
<i>Gonatium</i> Menge, 1868	Quaternary – Recent
823. <i>Gonatium rubens</i> (Blackwall, 1833) [Recent]	Qt England
<i>Hypselistes</i> Simon, 1894	Quaternary – Recent
824. <i>Hypselistes jacksoni</i> (O. P.-Cambridge, 1902) [Recent]	Qt England
<i>Linyphia</i> Latreille, 1804a	Palaeogene – Recent
825. <i>Linyphia andraei</i> Bertkau, 1878b	Ne Rott, Germany
826. <i>Linyphia byrami</i> Cockerell, 1925	Pa Green River
827. <i>Linyphia florissanti</i> Petrunkevitch, 1922	Pa Florissant

828. <i>Linyphia pachygnathoides</i> Petrunkevitch, 1922	Pa Florissant
829. <i>Linyphia quievreuxi</i> Berland, 1939	Pa Aix-en-Provence
830. <i>Linyphia retensa</i> Scudder, 1890a	Pa Florissant
831. <i>Linyphia rottensis</i> Bertkau, 1878b	Ne Rott, Germany
832. <i>Linyphia seclusa</i> (Scudder, 1890a)	Pa Florissant
† Madagascarphantes Wunderlich, 2012a	Quaternary
833. <i>Madagascarphantes vomerans</i> Wunderlich, 2012a*	Qt Madagascan copal
† Malepellis Petrunkevitch, 1971	Neogene
834. <i>Malepellis extincta</i> Petrunkevitch, 1971*	Ne Chiapas amber
Meioneta Hull, 1920	Neogene – Recent
835. <i>Meioneta bigibber</i> (Wunderlich, 1988)	Ne Dominican amber
836. <i>Meioneta fastigata</i> (Wunderlich, 1988)	Ne Dominican amber
837. <i>Meioneta separata</i> (Wunderlich, 1988)	Ne Dominican amber
<i>Meioneta</i> sp. in Wunderlich (1988)	Ne Dominican amber
Micryphantes C. L. Koch, 1833	Palaeogene
838. <i>Micryphantes molybdinus</i> C. L. Koch & Berendt, 1854	Pa Baltic amber
839. <i>Micryphantes regularis</i> C. L. Koch & Berendt, 1854	Pa Baltic amber
† Mystagogus Petrunkevitch, 1942 ...[Wunderlich suggests possibly in Cyatholipidae]	Palaeogene
840. <i>Mystagogus dubius</i> Petrunkevitch, 1958	Pa Baltic amber
841. <i>Mystagogus glaber</i> Petrunkevitch, 1942*	Pa Baltic amber
† Paralabulla Wunderlich, 2004s	Palaeogene
842. <i>Paralabulla bitterfeldensis</i> Wunderlich, 2004s*	Pa Bitterfeld amber
843. ? <i>Paralabulla dubia</i> Wunderlich, 2004s	Pa Baltic amber
844. <i>Paralabulla succinifera</i> Wunderlich, 2004s	Pa Baltic amber
<i>Paralabulla</i> sp. in Wunderlich (2004s, 2012c)	Pa Bitterfeld amber
Pocadicnemis Simon, 1884c	Quaternary – Recent
845. <i>Pocadicnemis pumila</i> (Blackwall, 1841) [Recent]	Qt England
Savignia Blackwall, 1833	Quaternary – Recent
846. <i>Savignia frontata</i> Blackwall, 1833 [Recent]	Qt England
Selenyphantes Gertsch & Davis, 1946	Neogene – Recent
= † <i>Palaeolinyphia</i> Wunderlich, 1986	
847. <i>Selenyphantes flagellifera</i> (Wunderlich, 1986)	Ne Dominican amber
† Succineta Wunderlich, 2004s	Palaeogene
848. <i>Succineta brevispina</i> Wunderlich, 2004s	Pa Baltic amber
849. <i>Succineta discoidalis</i> Wunderlich, 2004s*	Pa Baltic amber
<i>Succineta</i> sp. in Wunderlich (2004s)	Pa Baltic amber
† Succiphantes Wunderlich, 2004s	Palaeogene
850. <i>Succiphantes tanasevitchi</i> Wunderlich, 2004s	Pa Baltic amber
851. <i>Succiphantes velteni</i> Wunderlich, 2004s*	Pa Baltic amber
Toschia Caporiacco, 1949	Quaternary – Recent
852. ? <i>Toschia fossilis</i> Wunderlich, 2004as	Qt Madagascan copal

ERESIDAE C. L. Koch, 1851	?Miocene – Recent
no body fossil record, but a web attributed to the extant genus <i>Seothyra</i> was described by Pickford (2000) from Miocene aeolianites in the Namib Desert of Namibia	
DEINOPOIDEA C. L. Koch, 1851	Jurassic – Recent
Stem Deinopoidea	
† Zhizhu Selden, Ren & Shih, 2016	Jurassic – Cretaceous
853. <i>Zhizhu daohugouensis</i> Selden, Ren & Shih, 2016*	J Daohugou
854. <i>Zhizhu jeholensis</i> Selden, Ren & Shih, 2016	K Jehol Biota
† BURMADICTYNIDAE Wunderlich, 2017c	Cretaceous
† <i>Burmadictyna</i> Wunderlich, 2008d	Cretaceous
? <i>Burmadictyna</i> sp. in Wunderlich (2015b)	K Burmese amber
<i>Burmadictyna</i> sp. indet in Wunderlich (2017c)	K Burmese amber
855. <i>Burmadictyna clava</i> Wunderlich, 2015b	K Burmese amber
856. <i>Burmadictyna excavata</i> Wunderlich, 2015b	K Burmese amber
857. <i>Burmadictyna pecten</i> Wunderlich, 2008d*	K Burmese amber
858. <i>Burmadictyna postcopula</i> Wunderlich, 2017c	K Burmese amber
† <i>Eodeinopsis</i> Wunderlich, 2017c	Cretaceous
859. <i>Eodeinopsis longipes</i> Wunderlich, 2017c*	K Burmese amber
† SALTICOIDIDAE Wunderlich, 2008d	Cretaceous
† <i>Palaeomicromennus</i> Penney, 2003	Cretaceous
860. <i>Palaeomicromennus lebanensis</i> Penney, 2003b*	K Lebanese amber
† <i>Salticoidus</i> Wunderlich, 2008d	Cretaceous
861. <i>Salticoidus kaddumiorum</i> Wunderlich, 2008d*	K Jordanian amber
DEINOPIIDAE C. L. Koch, 1851	Cretaceous – Recent
<i>Deinopis</i> MacLeay, 1839	Quaternary – Recent
862. <i>Deinopis ?madagascariensis</i> Lenz, 1886 [Recent]	Qt Madagascar copal
† <i>Deinopoides</i> MacLeay, 1839	Cretaceous
863. <i>Deinopoides tranquillus</i> Wunderlich, 2017c	K Burmese amber
<i>Menneus</i> Simon, 1876b	Palaeogene – Recent
864. ? <i>Menneus pietrzeniukae</i> Wunderlich, 2004g	Pa Baltic amber
? <i>Menneus</i> sp. 1–3 in Wunderlich (2004g)	Pa Baltic amber
SYNAPHRIDAE Wunderlich, 1986	Palaeogene – Recent
† <i>Iardinidis</i> Wunderlich 2004k	Palaeogene
865. <i>Iardinidis brevipes</i> Wunderlich, 2004k*	Pa Baltic amber
OECOBIOIDEA Blackwall, 1862	Cretaceous – Recent
Oecobioidea fam. indet. in Wunderlich (2008d)	K Burmese amber

Oecobioidea indet. <i>in</i> Wunderlich 2015b	K	Jordanian amber
HERSILIIDAE Thorell, 1870a	Cretaceous – Recent	
= CHALINUROIDAE Thorell, 1873		
Hersiliidae sp. 1–3 <i>in</i> Wunderlich (2004d)	Pa	Baltic amber
Hersiliidae sp. <i>in</i> Wunderlich (2011f)	Qt	Madagascar copal
Hersiliidae indet. <i>in</i> Wunderlich, 2015b	K	Burmese amber
† Burmesiola Wunderlich, 2011i	Cretaceous	
866. <i>Burmesiola cretacea</i> Wunderlich, 2011*	K	Burmese amber
867. <i>Burmesiola daviesi</i> Wunderlich, 2015b	K	Burmese amber
† “Fictotama Petrunkevitch, 1963 (<i>nomen dubium</i>)“	Neogene	
[Wunderlich 2011f placed a new species in this genus, which was previously considered a <i>nomen dubium</i> . He did not formally revalidate the genus]		
868. <i>“Fictotama” maculosa</i> Wunderlich, 2011g	Ne	Dominican amber
† Gerdia Menge, 1869	Palaeogene	
869. <i>Gerdia myura</i> Menge, 1869*	Pa	Baltic amber
† Gardiopsis Wunderlich, 2004e	Palaeogene	
870. <i>Gardiopsis infrigens</i> Wunderlich, 2004e*	Pa	Baltic amber
† Gerdiorum Wunderlich 2004e	Palaeogene	
871. <i>Gerdiorum inflexum</i> Wunderlich 2004e*	Pa	Baltic amber
Hersilia Audouin, 1826	Palaeogene – Recent	
= † <i>Hersiliopsis</i> Wunderlich, 2004e		
872. <i>Hersilia aquisextana</i> Gourret, 1887	Pa	Aix-en-Provence
873. <i>Hersilia longipes</i> Giebel, 1856	Pa	Baltic amber
874. <i>Hersilia madagascarensis</i> (Wunderlich, 2004e)	Qt–R	Madagas. copal
875. ? <i>Hersilia miranda</i> C. L. Koch & Berendt, 1854	Pa	Baltic amber
† Hersiliana Wunderlich, 2004e	Quaternary – Recent	
876. <i>Hersiliana brevipes</i> Wunderlich, 2004e*	Qt	Madagascan copal
Hersiliola Thorell, 1870	Palaeogene – Recent	
<i>Hersiliola</i> sp. <i>in</i> Selden & Wang (2014)	Pa	Green River
† Prototama Petrunkevitch, 1971	Neogene	
= † <i>Priscotama</i> Petrunkevitch, 1971		
877. <i>Prototama antiqua</i> (Petrunkevitch, 1971)	Ne	Chiapas amber
878. <i>Prototama maior</i> (Wunderlich, 1988)	Ne	Dominican amber
879. <i>Prototama media</i> (Wunderlich, 1988)	Ne	Dominican amber
880. <i>Prototama minor</i> (Wunderlich, 1987)	Ne	Dominican amber
881. <i>Prototama succinea</i> Petrunkevitch, 1971*	Ne	Chiapas amber
<i>Prototama</i> sp. <i>in</i> Wunderlich (1988)	Ne	Dominican amber
† Spinasilia Wunderlich, 2015b	Cretaceous	
882. <i>Spinasilia dissoluta</i> Wunderlich, 2015b*	K	Burmese amber
† BURMASCUTIDAE Wunderlich, 2008d	Cretaceous	

† Burmascutum Wunderlich, 2008d	Cretaceous
883. <i>Burmascutum aenigma</i> Wunderlich, 2008d*	K Burmese amber
OECOBIIDAE Blackwall, 1862	Cretaceous – Recent
= UROCTEIDAE Thorell, 1869	
Oecobiidae indet. <i>in</i> Wunderlich, 2015b	K Burmese amber
† Lebanoecobius Wunderlich, 2004e	Cretaceous
884. <i>Lebanoecobius schleei</i> Wunderlich, 2004e*	K Lebanese amber
† Mizalia C. L. Koch & Berendt, 1854	Palaeogene
= † <i>Paruroctea</i> Petrunkevitch, 1942	
885. <i>Mizalia blauvelti</i> (Petrunkevitch, 1942)	Pa Baltic amber
886. <i>Mizalia gemini</i> Wunderlich, 2004e	Pa Baltic amber
887. <i>Mizalia rostrata</i> C. L. Koch & Berendt, 1854*	Pa Baltic amber
i. = <i>Mizalia pilosula</i> C. L. Koch & Berendt, 1854	Pa Baltic amber
888. <i>Mizalia spirembolus</i> Wunderlich, 2004e	Pa Baltic amber
<i>Mizalia</i> sp. <i>in</i> Wunderlich (2011h)	Pa Baltic/Bltter. amber
Oecobius Lucas, 1846	?Cretaceous – Recent
889. <i>Oecobius piliformis</i> Wunderlich, 1988	Ne Dominican amber
? <i>Oecobius</i> sp. indet. <i>in</i> Penney (2002)	K New Jersey amber
† Retroecobius Wunderlich, 2015b	Cretaceous
890. <i>Retroecobius chomskyi</i> Wunderlich, 2015b*	K Burmese amber
891. <i>Retroecobius convexus</i> Wunderlich, 2015b	K Burmese amber
Uroctea Dufour, 1820	Palaeogene – Recent
892. <i>Uroctea galloprovincialis</i> Gourret, 1887	Pa Aix-en-Provence
† Zamilia Wunderlich, 2008d	Cretaceous
893. <i>Zamilia aculeopectens</i> Wunderlich, 2015b	K Burmese amber
894. <i>Zamilia antecessor</i> Wunderlich, 2008d*	K Burmese amber
895. <i>Zamilia quattuormammillae</i> Wunderlich, 2015b	K Burmese amber
<i>Zamilia</i> sp. indet. <i>in</i> Wunderlich, 2015b	K Burmese amber
‘CANOE TAPETUM’ CLADE	Triassic – Recent
ORBICULARIAE Walckenaer, 1802	Triassic – Recent
ULOBORIDAE Thorell, 1869	?Jurassic – Recent
Uloboridae indet. <i>in</i> Wunderlich (2011f)	Qt Madagascar copal
Uloboridae indet. <i>in</i> Wunderlich, 2015b	K Burmese amber
Uloboridae <i>incerate sedis in</i> Selden & Wang (2014)	Pa Green River
† Bicalamistrum Wunderlich, 2015b	Cretaceous
896. <i>Bicalamistrum mixtum</i> Wunderlich, 2015b	K Burmese amber
† Burmuloborus Wunderlich, 2008d	Cretaceous
897. <i>Burmuloborus antefixus</i> Wunderlich, 2015b	K Burmese amber
898. <i>Burmuloborus parvus</i> Wunderlich, 2008d*	K Burmese amber

899. ? <i>Burmuloborus prolongatus</i> Wunderlich, 2015 <i>b</i>	K Burmese amber
? <i>Burmuloborus</i> sp. indet. in Wunderlich, 2015 <i>b</i>	K Burmese amber
† <i>Eomiagrammopes</i> Wunderlich, 2004<i>f</i>	Palaeogene
900. <i>Eomiagrammopes maior</i> Wunderlich, 2004 <i>f</i>	Pa Baltic amber
901. <i>Eomiagrammopes minor</i> Wunderlich, 2004 <i>f</i>	Pa Baltic amber
902. <i>Eomiagrammopes semiapertus</i> Wunderlich, 2011 <i>h</i>	Pa Baltic amber
903. <i>Eomiagrammopes singularis</i> Wunderlich, 2004 <i>f</i> [*]	Pa Baltic amber
904. <i>Eomiagrammopes spinipes</i> Wunderlich, 2004 <i>f</i>	Pa Baltic amber
<i>Eomiagrammopes</i> sp. 1–2 in Wunderlich (2004 <i>f</i>)	Pa Baltic amber
? <i>Eomiagrammopes</i> sp. in Wunderlich (2004 <i>f</i>)	Pa Baltic amber
† <i>Furculoborus</i> Wunderlich, 2017<i>c</i>	Cretaceous
905. <i>Furculoborus patellaris</i> Wunderlich, 2017 <i>c</i>	K Burmese amber
† <i>Hyptiomopes</i> Wunderlich, 2004<i>f</i>	Palaeogene
906. <i>Hyptiomopes bitterfeldensis</i> Wunderlich 2004 <i>f</i> [*]	Pa Bitterfeld amber
? <i>Hyptiomopes</i> sp. in Wunderlich (2004 <i>f</i>)	Pa Bitterfeld amber
<i>Hyptiotes</i> Walckenaer, 1837	Palaeogene – Recent
= † <i>Androgeus</i> C. L. Koch & Berendt, 1854	
907. <i>Hyptiotes convexus</i> Wunderlich, 2004 <i>f</i>	Pa Baltic amber
908. <i>Hyptiotes glaber</i> Wunderlich, 2004 <i>f</i>	Pa Baltic amber
909. <i>Hyptiotes saetosus</i> Wunderlich, 2004 <i>f</i>	Pa Baltic amber
910. <i>Hyptiotes stellatus</i> Wunderlich, 2004 <i>f</i>	Pa Baltic amber
911. <i>Hyptiotes triqueter</i> (C. L. Koch & Berendt, 1854)	Pa Baltic amber
† <i>Jerseyuloborus</i> Wunderlich, 2011<i>i</i>	Cretaceous
912. <i>Jerseyuloborus longisoma</i> Wunderlich, 2011 <i>i</i> [*]	K New Jersey amber
† <i>Kachin</i> Wunderlich, 2017<i>c</i>	Cretaceous
913. <i>Kachin fruticosus</i> Wunderlich, 2017 <i>c</i> [*]	K Burmese amber
914. <i>Kachin fruticosoides</i> Wunderlich, 2017 <i>c</i> [*]	K Burmese amber
<i>Miagrammopes</i> O. P.-Cambridge, 1870	Palaeogene – Recent
915. <i>Miagrammopes dominicanus</i> Wunderlich, 2004 <i>e</i>	Ne Dominican amber
<i>Miagrammopes</i> sp. in Penney (2001)	Ne Dominican amber
<i>Miagrammopes</i> sp. in Wunderlich (2011 <i>f</i>)	Qt Madagascar copal
<i>Miagrammopes</i> sp. in Selden & Wang (2014)	Pa Green River
† <i>Microuloborus</i> Wunderlich, 2015<i>b</i>	Cretaceous
916. <i>Microuloborus birmanicus</i> Wunderlich, 2015 <i>b</i> [*]	K Burmese amber
† <i>Ocululoborus</i> Wunderlich, 2012<i>d</i>	Cretaceous
917. <i>Ocululoborus curvatus</i> Wunderlich, 2012 <i>d</i> [*]	K Burmese amber
† <i>Opellianus</i> Wunderlich, 2004<i>f</i>	Palaeogene
918. <i>Opellianus excellens</i> Wunderlich, 2004 <i>f</i> [*]	Pa Baltic amber
919. <i>Opellianus kazimierasi</i> Wunderlich 2004 <i>f</i>	Pa Baltic amber
920. <i>Opellianus ludwigi</i> Wunderlich 2004 <i>f</i>	Pa Baltic amber
† <i>Palaeomiagrammopes</i> Wunderlich, 2008<i>d</i>	Cretaceous

921. <i>Palaeomiagrammopes vesica</i> Wunderlich, 2008d*	K Burmese amber
† Palaeouloborus Selden, 1990	Cretaceous
922. <i>Palaeouloborus lacasae</i> Selden, 1990*	K Sierra de Montsech
† Paramiagrammopes Wunderlich, 2008d	Cretaceous
923. <i>Paramiagrammopes cretaceus</i> Wunderlich, 2008d*	K Burmese amber
924. <i>Paragrammopes</i> [sic] <i>longiclypeus</i> Wunderlich, 2015b	K Burmese amber
925. <i>Paramiagrammopes patellidens</i> Wunderlich, 2015b	K Burmese amber
<i>Paramiagrammopes</i> sp. in Wunderlich (2008d)	K Burmese amber
† Propterkachin Wunderlich, 2017c	Cretaceous
926. <i>Propterkachin magnoculus</i> Wunderlich, 2017c*	K Burmese amber
† Talbragaraneus Selden & Beattie, 2013 [tentative familial assignment]	Jurassic
927. <i>Talbragaraneus jurassicus</i> Selden & Beattie, 2013*	J Talbragar, Australia
† Ulobomopes Wunderlich, 2004f	Palaeogene
928. <i>Ulobomopes unicus</i> Wunderlich, 2004f*	Pa Baltic amber
† MONGOLARACHNIDAE Selden, Shi & Ren, 2013	Jurassic – Cretaceous
NB: Wunderlich (2017c) considered it a haplogyne spider family, close to Pholcochyroceridae	
† Longissipalpus Wunderlich, 2015b	Cretaceous
929. <i>Longissipalpus cochlea</i> Wunderlich, 2017c	K Burmese amber
930. <i>Longissipalpus magnus</i> Wunderlich, 2015b	K Burmese amber
931. <i>Longissipalpus maior</i> Wunderlich, 2015b	K Burmese amber
932. <i>Longissipalpus minor</i> Wunderlich, 2015b*	K Burmese amber
† Mongolarachne Selden, Shi & Ren, 2013	Jurassic
933. <i>Mongolarachne jurassica</i> (Selden, Shih & Ren, 2011)*	J Daohugou
† Pedipalparaneus Wunderlich, 2015b	Cretaceous
934. <i>Pedipalparaneus seldeni</i> Wunderlich, 2015b*	K Burmese amber
TITANOECOIDEA Lehtinen, 1967	Quaternary – Recent
TITANOECIDAE Lehtinen, 1967	Quaternary – Recent
† Copaldictyna Wunderlich, 2004v	Quaternary
Tentative transfer by Wunderlich (2012a)	
935. <i>Copaldictyna madagascariensis</i> Wunderlich, 2004v*	Qt Madagascan copal
PHYXELIDIDAE Lehtinen, 1967	Recent
no fossil record	
RETROLATERAL TIBIAL APOPHYSIS CLADE	Cretaceous – Recent
?RTA-clade in Wunderlich (2008d)	K Burmese amber
?RTA-clade in Wunderlich (2017c)	K Burmese amber
ZODARIIDOIDEA Thorell, 1881	Palaeogene – Recent
PENESTOMIDAE Simon, 1903	Recent
no fossil record	

ZODARIIDAE Thorell, 1881	Palaeogene – Recent
= CRYPTOTHELIDAE L. Koch, 1872 [younger name protected by useage]	
= † ADJUTORIDAE Petrunkevitch, 1942	
Zodariidae gen. et sp. indet 1–4 <i>in</i> Wunderlich (2004ae)	Pa Baltic amber
† Adjutor Petrunkevitch, 1942	Palaeogene
936. <i>Adjutor deformis</i> Petrunkevitch, 1958	Pa Baltic amber
937. <i>Adjutor mirabilis</i> Petrunkevitch, 1942*	Pa Baltic amber
† Admissor Petrunkevitch, 1942	Palaeogene
938. <i>Admissor aculeatus</i> Petrunkevitch, 1942*	Pa Baltic amber
† Adorator Petrunkevitch, 1942	Palaeogene
939. <i>Adorator hispidus</i> (C. L. Koch & Berendt, 1854)	Pa Baltic / Rovno amber
i. = <i>Segestria cylindrica</i> C. L. Koch & Berendt, 1854	Pa Baltic amber
ii. = <i>Eresus curtipes</i> C. L. Koch & Berendt, 1854	Pa Baltic amber
iii. = <i>Eresus monachus</i> C. L. Koch & Berendt, 1854	Pa Baltic amber
iv. = <i>Adorator brevipes</i> Petrunkevitch, 1942*	Pa Baltic amber
940. <i>Adorator samlandicus</i> Petrunkevitch, 1942	Pa Baltic amber
† Angusdarion Wunderlich, 2004ae	Palaeogene
941. <i>Angusdarion humilis</i> Wunderlich, 2004ae*	Pa Baltic amber
† Anniculus Petrunkevitch, 1942	Palaeogene
942. <i>Anniculus balticus</i> Petrunkevitch, 1942*	Pa Baltic amber
† Eocydrele Petrunkevitch, 1958	Palaeogene
943. <i>Eocydrele mortua</i> Petrunkevitch, 1958*	Pa Baltic amber
† Propago Petrunkevitch, 1963	Neogene
944. <i>Propago debilis</i> Petrunkevitch, 1963*	Ne Chiapas amber
† Spinizodarion Wunderlich, 2004ae	Palaeogene
945. <i>Spinizodarion ananulum</i> Wunderlich, 2004ae*	Pa Baltic amber
† Zodariodamus Wunderlich 2004ae	Palaeogene
946. <i>Zodariodamus recurvatus</i> Wunderlich 2004ae*	Pa Baltic amber

MARRONIDS

CHUMMIDAE Jocqué, 2001	Recent
no fossil record	

AMAUROBIIDAE Thorell, 1870a	Palaeogene – Recent
= CINIFLONIDAE Blackwall, 1841	
[partly also Dictynidae; based on a generic synonym]	
Amaurobiinae gen. et sp. indet. <i>in</i> Wunderlich (2004u)	Pa Baltic amber

AGELENIDAE C. L. Koch, 1837	Palaeogene – Recent
= TEGENARIDAE Prach, 1860	
= † INCEPTORIDAE Petrunkevitch, 1942	

Agelena Walckenaer, 1805	Palaeogene – Recent
947. <i>Agelena tabida</i> C. L. Koch & Berendt, 1854	Pa Baltic amber
Histopona Thorell, 1869	Palaeogene – Recent
948. ? <i>Histopona anthracina</i> Bertkau, 1878 <i>b</i>	Ne Rott, Germany
† Inceptor Petrunkevitch, 1942	Palaeogene
949. <i>Inceptor aculeatus</i> Petrunkevitch, 1942*	Pa Baltic amber
950. <i>Inceptor dubius</i> Petrunkevitch, 1946	Pa Baltic amber
Tegenaria Latreille, 1804a	Palaeogene – Recent
951. ? <i>Tegenaria fragmentum</i> Wunderlich, 2004 <i>w</i>	Pa Baltic amber
952. <i>Tegenaria lacazei</i> Gourret, 1887	Pa Aix-en-Provence
953. ? <i>Tegenaria obtusa</i> Wunderlich, 2004 <i>w</i>	Pa Baltic amber
954. <i>Tegenaria virilis</i> Menge <i>in</i> C. L. Koch & Berendt, 1854	Pa Baltic amber
DICTYNOIDEA O. P.-Cambridge, 1871	Palaeogene – Recent
Dictynoidea incertae sedis	
† Sinodictyna Hong, 1982	Palaeogene
955. <i>Sinodictyna fushunensis</i> Hong, 1982*	Pa Fu Shun amber
CYBAEIDAE Simon, 1898a	Palaeogene – Recent
= ARGYRONETIDAE Thorell, 1870a [both family names protected by usage]	
Argyroneta Latreille, 1804a	?Neogene – Recent
956. <i>Argyroneta aquatica</i> (Clerck, 1757) [Recent]	Qt England
957. ? <i>Argyroneta longipes</i> Heer, 1865	Ne Öhningen
† Vectaraneus Selden, 2001	Palaeogene
958. <i>Vectaraneus yulei</i> Selden, 2001*	Pa Bembridge Marls
HAHNIIDAE Bertkau, 1878a	Palaeogene – Recent
† Cymbiohahnia Wunderlich, 2004v	Palaeogene
959. <i>Cymbiohahnia parens</i> Wunderlich, 2004 <i>v</i>	Pa Baltic, Bitterfeld & Rovno amber
† Eohahnia Petrunkevitch, 1958	Palaeogene
960. <i>Eohahnia succini</i> Petrunkevitch, 1958*	Pa Baltic amber
† Protohahnia Wunderlich, 2004v	Palaeogene
961. <i>Protohahnia antiqua</i> Wunderlich, 2004 <i>v</i> *	Pa Baltic amber
962. <i>Protohahnia tripartita</i> Wunderlich, 2004 <i>v</i>	Pa Baltic amber
genus uncertain	
963. ‘ <i>Tegenaria</i> ’ <i>obscura</i> C. L. Koch & Berendt, 1854	Pa Baltic amber
DICTYNIDAE O. P.-Cambridge, 1871	Cretaceous – Recent
= RHIOIDAE Thorell, 1873	
= † ARTHRODICTYNIDAE Petrunkevitch, 1942	
Dictynidae gen. et sp. indet <i>in</i> Penney (2002)	K New Jersey amber

Dictynidae sp. 1–2 <i>in</i> Wunderlich (2004v)	Pa Baltic amber
Dictynidae sp. 1–5 <i>in</i> Wunderlich (2008d)	K Burmese amber
Dictyninae indet <i>in</i> Wunderlich (2012b)	Pa Rovno amber
Argenna Thorell, 1870a	Neogene – Recent
964. <i>Argenna fossilis</i> Petrunkevitch <i>in</i> Palmer, 1957	Ne Mojave Desert
† Arthrodictyna Petrunkevitch, 1942	Palaeogene
965. <i>Arthrodictyna segmentata</i> Petrunkevitch, 1942*	Pa Baltic amber
† Balticocryphoeca Wunderlich, 2004v	Palaeogene
966. <i>Balticocryphoeca curvatarsis</i> Wunderlich, 2004v*	Pa Baltic / Bitt. amber
† Brommellina Wunderlich, 2004v	Palaeogene
967. <i>Brommellina longungulae</i> Wunderlich, 2004v*	Pa Baltic amber
† Chelicirrum Wunderlich, 2004v	Palaeogene
968. <i>Chelicirrum stridulans</i> Wunderlich, 2004v*	Pa Baltic amber
† Cryphoezaga Wunderlich, 2004v	Palaeogene
969. <i>Cryphoezaga dubia</i> Wunderlich, 2004v*	Pa Baltic amber
Dictyna Sundevall, 1833	Quaternary – Recent
970. <i>Dictyna rufa</i> Wunderlich, 2012a	Qt Madagascar copal
† Eobrommella Wunderlich, 2004v	Palaeogene
971. <i>Eobrommella scutata</i> Wunderlich, 2004v*	Pa Baltic amber
† Eocryphoeca Petrunkevitch, 1946	Palaeogene
972. <i>Eocryphoeca bitterfeldensis</i> Wunderlich, 2004v	Pa Bitterfeld amber
973. <i>Eocryphoeca electrina</i> Wunderlich, 2004v	Pa Baltic amber
974. <i>Eocryphoeca falcata</i> Wunderlich, 2004v	Pa Baltic amber
975. <i>Eocryphoeca gibbifera</i> Wunderlich, 2004v	Pa Baltic amber
976. <i>Eocryphoeca gracilipes</i> (C. L. Koch & Berendt, 1854)*	Pa Baltic amber
977. <i>Eocryphoeca ligula</i> Wunderlich, 2004v	Pa Baltic amber
978. <i>Eocryphoeca mammilla</i> Wunderlich, 2004v	Pa Baltic amber
979. <i>Eocryphoeca splendens</i> Wunderlich, 2004v	Pa Baltic amber
<i>Eocryphoeca</i> sp. <i>in</i> Wunderlich (2004v)	Pa Baltic amber
† Eocryphoecara Wunderlich, 2004v	Palaeogene
980. <i>Eocryphoecara abicera</i> Wunderlich, 2004v*	Pa Baltic amber
† Eodictyna Wunderlich, 2004v	Palaeogene
981. <i>Eodictyna communis</i> Wunderlich, 2004v*	Pa Baltic amber
† Eolathys Petrunkevitch, 1950	Palaeogene
982. <i>Eolathys debilis</i> Petrunkevitch, 1950	Pa Baltic amber
983. <i>Eolathys succini</i> Petrunkevitch, 1950*	Pa Baltic amber
† Flagelldictyna Wunderlich, 2012a	Quaternary
984. <i>Flagelldictyna copalis</i> Wunderlich, 2012a*	Qt Madagascar copal
† Gibbermastigusa Wunderlich, 2004v	Palaeogene
985. <i>Gibbermastigusa lateralis</i> Wunderlich, 2004v*	Pa Baltic amber
† Hispaniolyna Wunderlich, 1988	Neogene

986.	<i>Hispaniolyna hirsuta</i> Wunderlich, 1988	Ne Dominican amber
987.	<i>Hispaniolyna magna</i> Wunderlich, 1988*	Ne Dominican amber
†	Mastigusa Menge in C. L. Koch & Berendt, 1854	Palaeogene
	= † <i>Eotetrilus</i> Wunderlich, 1982 [<i>nomen nudum</i>]	
988.	<i>Mastigusa acuminata</i> Menge in C. L. Koch & Berendt, 1854*	Pa Baltic amber
989.	<i>Mastigusa arcuata</i> Wunderlich, 2004v	Pa Baltic amber
990.	<i>Mastigusa bitterfeldensis</i> Wunderlich, 2004v	Pa Bitterfeld amber
991.	<i>Mastigusa laticymbium</i> Wunderlich, 2004v	Pa Baltic amber
992.	<i>Mastigusa magnibulbus</i> Wunderlich, 2004v	Pa Bitterfeld amber
993.	<i>Mastigusa media</i> Wunderlich, 1986	Pa Baltic amber
994.	<i>Mastigusa modesta</i> Wunderlich, 1986	Pa Baltic amber
995.	<i>Mastigusa scutata</i> Wunderlich, 2004v	Pa Baltic amber
	<i>Mastigusa</i> sp. in Wunderlich (2004v)	Pa Baltic amber
†	Mizagalla Wunderlich, 2004v	Palaeogene
996.	<i>Mizagalla quattuor</i> Wunderlich, 2004v*	Pa Baltic amber
997.	<i>Mizagalla tuberculata</i> Wunderlich, 2004v	Pa Baltic amber
†	Palaeodictyna Wunderlich, 1988	Neogene
998.	<i>Palaeodictyna intermedia</i> Wunderlich, 1988	Ne Dominican amber
999.	<i>Palaeodictyna longispina</i> Wunderlich, 1988	Ne Dominican amber
1000.	<i>Palaeodictyna singularis</i> Wunderlich, 1988	Ne Dominican amber
1001.	<i>Palaeodictyna spiculum</i> Wunderlich, 1988	Ne Dominican amber
1002.	<i>Palaeodictyna termitophila</i> Wunderlich, 1988*	Ne Dominican amber
1003.	<i>Palaeodictyna unispina</i> Wunderlich, 1988	Ne Dominican amber
†	Palaeolathys Wunderlich, 1986	Neogene
1004.	<i>Palaeolathys circumductus</i> Wunderlich, 1988	Ne Dominican amber
1005.	<i>Palaeolathys copalis</i> Wunderlich, 1986	Qt Dominican copal
1006.	<i>Palaeolathys quadruplex</i> Wunderlich, 1988	Ne Dominican amber
1007.	<i>Palaeolathys similis</i> Wunderlich, 1988	Ne Dominican amber
1008.	<i>Palaeolathys spinosa</i> Wunderlich, 1986*	Ne Dominican amber
	<i>Palaeolathys</i> sp. in Wunderlich (1988)	Ne Dominican amber
†	Protomastigusa Wunderlich, 2004v	Palaeogene
1009.	<i>Protomastigusa composita</i> Wunderlich, 2004v	Pa Baltic amber
†	Scopulyna Wunderlich, 2004v	Palaeogene
1010.	<i>Scopulyna cursor</i> Wunderlich, 2004v	Pa Baltic amber
†	Succinya Wunderlich, 1988	Neogene
1011.	<i>Succinya longembolus</i> Wunderlich, 1988	Ne Dominican amber
1012.	<i>Succinya pulcher</i> Wunderlich, 1988*	Ne Dominican amber
1013.	<i>Succinya spinipalpus</i> Wunderlich, 1988	Ne Dominican amber
	Thallumetus Simon, 1892b	Quaternary – Recent
1014.	<i>Thallumetus copalis</i> Wunderlich, 2004at	Qt Colombian copal

- CYCLOCTENIDAE Simon, 1898a** **Recent**
no fossil record
- STIPHIDIIDAE Dalmas, 1917** **Recent**
no fossil record
- DESIDAE Pocock, 1895** **Palaeogene – Recent**
Myro O. P.-Cambridge, 1876 **Palaeogene – Recent**
1015. *Myro extinctus* Petrunkevitch, 1958 [belongs in Dictynidae?] Pa Baltic amber
1016. *Myro hirsutus* Petrunkevitch, 1942 Pa Baltic amber
- AMPHINECTIDAE Forster & Wilton, 1973** **Recent**
= NEOLANIDAE Forster & Wilton, 1973
no fossil record
- SPARASSIDAE Bertkau, 1872** **Palaeogene – Recent**
= HETEROPODIDAE Thorell, 1873
= MICROMMATIDAE Bertkau, 1878a
= EUSPARASSIDAE Järvi, 1912
- Sparassidae sp. 1–2 *in* (Wunderlich 2008c) Pa Baltic amber
- † **Caduceator Petrunkevitch, 1942** **Palaeogene**
1017. *Caduceator minutus* Petrunkevitch, 1942* Pa Baltic amber
1018. *Caduceator quadrimaculatus* Petrunkevitch, 1950 Pa Baltic amber
- † **Collacteus Petrunkevitch, 1942** **Palaeogene**
1019. *Collacteus captivus* Petrunkevitch, 1942* Pa Baltic amber
- † **Eostaianus Petrunkevitch, 1950** **Palaeogene**
1020. *Eostaianus succini* Petrunkevitch, 1950* Pa Baltic amber
- † **Eostasina Petrunkevitch, 1942** **Palaeogene**
1021. *Eostasina aculeata* Petrunkevitch, 1942* Pa Baltic amber
- Eusparassus Simon 1903** **Palaeogene – Recent**
1022. *Eusparassus crassipes* (C. L. Koch & Berendt, 1854) Pa Baltic amber
- Heteropoda Latreille, 1804a** **Palaeogene – Recent**
= † *Retina* Hong, 1985
1023. *Heteropoda rpbusta* [*sic*] (Hong, 1985) Ne Shanwang
NB: as '*H. robusta*' this would be a junior homonym of a living species.
- Pseudosparianthis Simon, 1887** **Neogene – Recent**
1024. *Pseudosparianthis pfeifferi* (Wunderlich, 1988) Ne Dominican amber
- Zachria L. Koch, 1875** **Palaeogene – Recent**
NB: An Australian genus; Wunderlich (2012c) regarded at least *Z. desiderabilis* as gen. indet.
1025. *Zachria desiderabilis* Petrunkevitch, 1950 Pa Baltic amber
1026. *Zachria peculiata* Petrunkevitch, 1946 Pa Baltic amber
1027. *Zachria restincta* Petrunkevitch, 1958 Pa Baltic amber

HOMALONYCHIDAE Simon, 1893	Recent
no fossil record	
OVAL CALAMISTRUM CLADE	
UDUBIDAE Griswold & Polotow, 2015	Recent
no fossil record	
ZOROPSIDAE Bertkau, 1882	Palaeogene – Recent
= ZOROCRATIDAE Dahl, 1913	
= TENGELLIDAE Dahl, 1908	
Zoropsidae sp. <i>in</i> Wunderlich (2004x)	Pa Baltic / Bitt. Amber
† Cymbioropsis Wunderlich, 2017a	Palaeogene
1028. <i>Cymbioropsis palpussutura</i> Wunderlich, 2017a*	Pa Baltic amber
† Eomatachia Petrunkevitch, 1942	Palaeogene
1029. <i>Eomatachia barbarus</i> Wunderlich, 2004x	Pa Baltic amber
1030. <i>Eomatachia bipartita</i> Wunderlich, 2004x	Pa Baltic amber
1031. <i>Eomatachia divergens</i> Wunderlich, 2004x	Pa Baltic amber
1032. <i>Eomatachia duplex</i> Wunderlich, 2004x	Pa Baltic amber
1033. <i>Eomatachia latifrons</i> Petrunkevitch, 1942*	Pa Baltic amber
1034. <i>Eomatachia recedens</i> Wunderlich, 2004x	Pa Baltic amber
1035. <i>Eomatachia succini</i> (Petrunkevitch, 1942)	Pa Baltic amber
1036. <i>Eomatachia wegneri</i> Wunderlich, 2004x	Pa Baltic amber
1037. <i>Eomatachia xanthippe</i> Wunderlich, 2004x	Pa Baltic amber
† Eoprychia Petrunkevitch, 1958	Palaeogene
1038. <i>Eoprychia clara</i> Wunderlich, 2017a	Pa Baltic amber
1039. <i>Eoprychia succini</i> Petrunkevitch, 1958*	Pa Baltic amber
1040. <i>Eoprychia succinopsis</i> Wunderlich, 2004x	Pa Baltic amber
1041. <i>Eoprychia vicina</i> Wunderlich, 2004x	Pa Baltic amber
<i>Eoprychia</i> sp. <i>in</i> Wunderlich (2004x)	?Pa not specified
† Pseudoeoprychia Wunderlich, 2017a	Palaeogene
1042. <i>Pseudoeoprychia triplex</i> Wunderlich, 2017a*	Pa Baltic amber
† Succiniropsis Wunderlich, 2004x	Palaeogene
1043. <i>Succiniropsis kutscheri</i> Wunderlich, 2004x*	Pa Baltic / Bitt. amber
1044. <i>Succiniropsis runcinata</i> Wunderlich, 2012c	Pa Baltic amber
1045. <i>Succiniropsis samlandica</i> Wunderlich, 2004x	Pa Baltic amber
† INSECUTORIDAE Petrunkevitch, 1942	Palaeogene
† Insecutor Petrunkevitch, 1942	Palaeogene
1046. <i>Insecutor aculeatus</i> Petrunkevitch, 1942*	Pa Baltic amber
1047. <i>Insecutor mandibulatus</i> Petrunkevitch, 1942	Pa Baltic amber
1048. ? <i>Insecutor pecten</i> Wunderlich, 2004y	Pa Baltic amber
1049. <i>Insecutor rufus</i> Petrunkevitch, 1942	Pa Baltic amber

1050. ? *Insecutor spinifer* Wunderlich, 2004y Pa Baltic amber
 ? *Insecutor* sp. in Wunderlich (2004y) Pa Baltic amber
- † **SUCCINOMIDAE Wunderlich, 2012c** **Palaeogene**
- † ***Eohalinobius* Wunderlich, 2008c** **Palaeogene**
1051. *Eohalinobius calefactus* Wunderlich, 2012c Pa Baltic amber
 1052. *Eohalinobius hiddenseeensis* Wunderlich, 2012c Pa Baltic amber
 1053. *Eohalinobius patina* Wunderlich, 2012c Pa Baltic amber
 1054. *Eohalinobius scutatus* Wunderlich, 2008c Pa Baltic amber
- † ***Succinomus* Wunderlich, 2008c** **Palaeogene**
1055. *Succinomus duomammillae* Wunderlich, 2008c Pa Baltic amber
 1056. ? *Succinomus gibbosus* Wunderlich, 2012c Pa Baltic amber
- CTENIDAE Keyserling, 1877** **Neogene – Recent**
 = ACANTHOCTENIDAE Simon, 1892b
- † ***Nanoctenus* Wunderlich, 1988** **Neogene**
1057. *Nanoctenus longipes* Wunderlich, 1988* Ne Dominican amber
- SENOCULIDAE Simon, 1890** **Recent**
 = NEOTHEREUTOIDAE Holmberg, 1883 [based on a generic synonym]
 no fossil record
- OXYOPIDAE Thorell, 1870a** **Palaeogene – Recent**
 = SPHASIDAE O. P.-Cambridge, 1871
 = HAMATALIVIDAE Marx, 1890b
 Oxyopidae sp. in Wunderlich 2004ab Pa Bitterfeld amber
- Oxyopes* Latreille, 1804a** **Palaeogene – Recent**
1058. *Oxyopes defectus* Wunderlich, 1988 Ne Dominican amber
 1059. ‘*Oxyopes*’ *succini* Petrunkevitch, 1958 Pa Baltic amber
 Oxyopes sp. in Wunderlich (1988, 2004ab) Ne Dominican amber
- † ***Planoxyopes* Petrunkevitch, 1963** **Neogene**
1060. *Planoxyopes eximius* Petrunkevitch, 1963* Ne Chiapas amber
 i. = *Planoxyopes fossilis* Wunderlich, 1988 [*lapsus*] Ne Chiapas amber
- PISAURIDAE Simon, 1890** **Palaeogene – Recent**
 = BRADYSTICHIDAE Simon, 1884
 = DOLOMEDIDAE Simon, 1898a
 = HALIDAE Jocqué, 1994
 Pisauridae sp. in Wunderlich (1988) Pa Dominican amber
 Pisauridae sp. in Wunderlich (2004z) Pa Baltic amber
- Dolomedes* Latreille, 1804a** **Quaternary – Recent**
1061. *Dolomedes fimbriatus* (Clerck, 1757) [**Recent**] Qt England
- † **‘*Linoptes*’ Menge in C. L. Koch & Berendt, 1854** **Palaeogene**

= † *Eopisaurella* Petrunkevitch, 1958

NB: See notes on *Linoptes* under Trechaleidae above!

1062. ?'*Linoptes*' *valdespinosa* (Petrunkevitch, 1958)* Pa Baltic amber
 ?'*Linoptes*' sp. 1–8 in Wunderlich (2004z) Pa Baltic amber
- † *Palaeoperenethis* Selden & Penney, 2009 **Palaeogene**
1063. *Palaeoperenethis thaleri* Selden & Penney, 2009* Pa British Columbia
- TRECHALEIDAE** Simon, 1890 **Palaeogene – Recent**
 = TRICLARIDAE O. P.-Cambridge, 1877 [*nomen oblitum*]
 = PERISSOBLEMMATIDAE O. P.-Cambridge, 1882b [based on a synonym]
- Trechaleidae sp. in Wunderlich (2004aa) Pa Baltic amber
- † *Eotrechalea* Wunderlich, 2004aa **Palaeogene**
1064. *Eotrechalea annulata* Wunderlich, 2004aa* Pa Baltic amber
- † *Esuritor* Petrunkevitch, 1942 **Palaeogene**
1065. *Esuritor aculeatus* Petrunkevitch, 1958 Pa Baltic amber
 1066. *Esuritor spinipes* Petrunkevitch, 1942* Pa Baltic amber
- † *Linoptes* Menge in C. L. Koch & Berendt, 1854 **Palaeogene**
1067. ?'*Linoptes*' *oculeus* Menge in C. L. Koch & Berendt, 1854* Pa Baltic amber
- NB: *Linoptes* mentioned as a *nomen nudum* by Wunderlich (2004z); this species listed by Wunderlich (2004aa) under Trechaleidae and another species under Pisauridae (see below)
- 'LYCOSOIDEA'** Sundevall, 1833 **Cretaceous – Recent**
- † *Korearachne* Selden, Nam, Kim & Kim, 2012 **Cretaceous**
1068. *Korearachne jinju* Selden, Nam, Kim & Kim, 2012* K Sacheon, S. Korea
 Tentative assignment to Lycosoidea; disputed by Wunderlich (2012d) who suggested it could be a haplogyne spider in Pholcoidea or Leptonetoidea
- LYCOSIDAE** Sundevall, 1833 **?Cretaceous – Recent**
- Lycosidae gen. et sp. in Bottali (1975) Qt Italy
 Lycosidae gen. et sp. in Schawaller (1982d) Ne Willershausen
 Lycosidae gen. et sp. in Penney (2001) Ne Dominican amber
 Lycosidae gen. et sp. in Kim & Nam (2012) [unreliable record] K Liyuan, China
- Alopecosa* Simon, 1885b **Quaternary – Recent**
1069. *Alopecosa ?pulverulenta* (Clerck, 1757) [**Recent**] Qt England
- † *Dryadía* Zhang, Sun & Zhang, 1994 **Palaeogene**
1070. *Dryadía acanthopoda* Zhang, Sun & Zhang, 1994 Ne Shanwang
- Lycosa** Latreille, 1804a **Palaeogene – Recent**
1071. *Lycosa florissanti* Petrunkevitch, 1922 Pa Florissant
 1072. *Lycosa lithographica* Schawaller & Ono, 1979 Ne Randecker Maar
 1073. *Lycosa malleata* Zhang, Sun & Zhang, 1994 Ne Shanwang
 1074. *Lycosa miocaena* Schawaller & Ono, 1979 Ne Randecker Maar
 1075. *Lycosa subterranea* Zhang, Sun & Zhang, 1994 Ne Shanwang
- Pardosa* C. L. Koch, 1847 **Quaternary – Recent**

1076.	<i>Pardosa pullata</i> (Clerck, 1757) [Recent]	Qt	England
	<i>Pardosa</i> sp. in Scott (2003)	Qt	England
Pirata Sundevall, 1833		Quaternary – Recent	
1077.	<i>Pirata ?piraticus</i> (Clerck, 1757) [Recent]	Qt	England
Trochosa C. L. Koch, 1847		Quaternary – Recent	
1078.	<i>Trochosa terricola</i> Thorell, 1856 [Recent]	Qt	England
† PARATTIDAE Petrunkevitch, 1922		Palaeogene	
† Parattus Petrunkevitch, 1922		Palaeogene	
1079.	<i>Parattus evocatus</i> (Scudder, 1890a)	Pa	Florissant
1080.	<i>Parattus latitatus</i> (Scudder, 1890a)	Pa	Florissant
1081.	<i>Parattus oculatus</i> Petrunkevitch, 1922	Pa	Florissant
1082.	<i>Parattus resurrectus</i> (Scudder, 1890a)*	Pa	Florissant
PSECHRIDAE Simon, 1890		Recent	
no fossil record			
THOMISIDAE Sundevall, 1833		Palaeogene – Recent	
= APHANTOCHILIDAE Thorell, 1873			
= MISUMENIDAE Thorell, 1887			
= STIPHROPODIDAE Simon, 1895			
= XYSTICIDAE Dahl, 1912			
= BORBOROPACTIDAE Wunderlich, 2004a ^o			
	Thomisidae gen. et sp. in Nishikawa (1974)	Qt	Mizunami copal
	Thomisidae gen. et sp. in Bottali (1975)	Qt	Italy
	Thomisidae gen. et sp. in Schawaller (1982d)	Ne	Willershausen
	Thomisidae gen. et sp. in Wunderlich (1988)	Ne	Dominican amber
	Thomisidae gen. et sp. 1–2 in Wunderlich (2004a ^p)	Pa	Baltic amber
	Thomisidae gen. et sp. in Garcíá-Villafuerte (2006b)	Ne	Chiapas amber
	Thomisidae <i>incertae sedis</i> in Selden & Wang (2014)	Pa	Green River
Coriarachne Thorell, 1870b		Quaternary – Recent	
	<i>Coriarachne</i> sp. in Cutler (1970)	Qt	Wyoming
† Ecotona Lin, Zhang & Wang, 1989 [ex Araneidae]		Neogene	
1083.	<i>Ecotona brunnea</i> Zhang, Sun & Zhang, 1994	Ne	Shanwang
1084.	<i>Ecotona pilulifera</i> Zhang, Sun & Zhang, 1994	Ne	Shanwang
1085.	<i>Ecotona transipeda</i> Lin, Zhang & Wang, 1989*	Ne	Shanwang
† Facundia Petrunkevitch, 1942		Palaeogene	
1086.	<i>Facundia clara</i> Petrunkevitch, 1942*	Pa	Baltic amber
† Fiducia Petrunkevitch, 1950		Palaeogene	
1087.	<i>Fiducia tenuipes</i> Petrunkevitch, 1950*	Pa	Baltic amber
† Filiolella Petrunkevitch, 1955a		Palaeogene	
= † <i>Filiola</i> Petrunkevitch, 1942 [preoccupied]			

1088.	<i>Filiolella argentata</i> (Petrunkevitch, 1942)*	Pa Baltic amber
†	Heterotmarus Wunderlich, 1988	Neogene
1089.	<i>Heterotmarus altus</i> Wunderlich, 1988*	Ne Dominican amber
†	Komisumena Ono, 1981	Neogene
1090.	<i>Komisumena rosae</i> Ono, 1981*	Ne Dominican amber
†	Miothomismus Zhang, Sun & Zhang, 1994	Neogene
1091.	<i>Miothomismus subnudus</i> Zhang, Sun & Zhang, 1994	Ne Shanwang
1092.	<i>Miothomismus sylvaticus</i> Zhang, Sun & Zhang, 1994*	Ne Shanwang
	Misumena Latreille, 1804a	Palaeogene – Recent
1093.	<i>Misumena samlandica</i> Petrunkevitch, 1942	Pa Baltic amber
†	Palaeoxysticus Wunderlich, 1985	Neogene
1094.	<i>Palaeoxysticus extinctus</i> Wunderlich, 1985	Ne Randecker Maar
†	Parvulus Zhang, Sun & Zhang, 1994	Neogene
1095.	<i>Parvulus latissimus</i> Zhang, Sun & Zhang, 1994*	Ne Shanwang
†	Succinaenigma Wunderlich, 2004ap	Palaeogene
1096.	<i>Succinaenigma raptor</i> Wunderlich, 2004ap*	Pa Baltic amber
†	Succiniraptor Wunderlich, 2004ao	Palaeogene
1097.	<i>Succiniraptor radiatus</i> (C. L. Koch & Berendt, 1854)	Pa Baltic amber
	i. = <i>Succiniraptor paradoxus</i> Wunderlich, 2004ao*	Pa Baltic amber
	Synema Simon, 1864	Palaeogene – Recent
1098.	<i>Synema enigmaticum</i> Berland, 1939	Pa Aix-en-Provence
†	Syphax C. L. Koch & Berendt, 1854	Palaeogene
1099.	<i>Syphax asper</i> Petrunkevitch, 1950	Pa Baltic amber
1100.	<i>Syphax crassipes</i> Petrunkevitch, 1942	Pa Baltic amber
1101.	<i>Syphax fuliginosus</i> C. L. Koch & Berendt, 1854	Pa Baltic amber
1102.	<i>Syphax gracilis</i> C. L. Koch & Berendt, 1854	Pa Baltic amber
1103.	<i>Syphax megacephalus</i> C. L. Koch & Berendt, 1854*	Pa Baltic amber
1104.	<i>Syphax secedens</i> Wunderlich, 2015a	Pa Baltic amber
1105.	<i>Syphax thoracicus</i> C. L. Koch & Berendt, 1854	Pa Baltic amber
†	Thomisidites Straus, 1967	Neogene
1106.	<i>Thomisidites hercynicus</i> Straus, 1967*	Ne Willershausen
†	Thomisiraptor Wunderlich, 2004ap	Palaeogene
1107.	<i>Thomisiraptor liedtkei</i> Wunderlich, 2004ap*	Pa Baltic amber
	Thomismus Walckenaer, 1805	Palaeogene – Recent
1108.	<i>Thomisiraptor liedtkei</i> Wunderlich, 2004ap*	Pa Baltic amber
1109.	<i>Thomismus defossus</i> Scudder, 1890a	Pa Florissant
1110.	<i>Thomismus disjunctus</i> Scudder, 1890a	Pa Florissant
1111.	<i>Thomismus lividus</i> Heer, 1865	Ne Öhningen
1112.	<i>Thomismus resutus</i> Scudder, 1890a	Pa Florissant
1113.	<i>Thomismus sulzeri</i> Heer, 1865	Ne Öhningen
	Xysticus C. L. Koch, 1835	Palaeogene – Recent

1114.	? <i>Xysticus annulipes</i> Bertkau, 1878b	Ne	Rott, Germany
1115.	<i>Xysticus archaeopalpus</i> Leech & Matthews, 1971	Ne	Alaska
1116.	<i>Xysticus oeningensis</i> (Heer, 1865)	Ne	Öhningen
	<i>Xysticus</i> sp. in Protescu (1937)	Pa	Romanian amber
PRODIDOMIDAE Simon, 1884a		Quaternary – Recent	
	= MILTIIDAE Thorell, 1873 [based on a generic synonym]		
Prodidomus Hentz, 1847		Quaternary – Recent	
1117.	<i>Prodidomus madagascariensis</i> Wunderlich, 2011c	Qt	Madagascar copal
DIONYCHA			
TROCHANTERIIDAE Karsch, 1879		Palaeogene – Recent	
	= PLATORIDAE Simon, 1890		
† Eotrochanteria Wunderlich, 2004am		Palaeogene	
	<i>Eotrochanteria kruegeri</i> Wunderlich, 2004am*	Pa	Baltic amber
† Sosybius C. L. Koch & Berendt, 1854		Palaeogene	
	= † <i>Adamator</i> Petrunkevitch, 1942		
	= † <i>Adjunctor</i> Petrunkevitch, 1942		
	= † <i>Adulatrix</i> Petrunkevitch, 1942		
1118.	<i>Sosybius berendti</i> Wunderlich, 2004am	Pa	Baltic amber
1119.	<i>Sosybius decumana</i> (C. L. Koch & Berendt, 1854)	Pa	Baltic amber
1120.	<i>Sosybius falcatus</i> Wunderlich, 2004am	Pa	Baltic amber
1121.	<i>Sosybius fusca</i> (Petrunkevitch, 1942)	Pa	Baltic amber
1122.	<i>Sosybius kochi</i> Wunderlich, 2004am	Pa	Baltic amber
1123.	<i>Sosybius lateralis</i> Wunderlich, 2004am	Pa	Baltic amber
1124.	<i>Sosybius longipes</i> Wunderlich, 2004am	Pa	Baltic amber
1125.	<i>Sosybius major</i> C. L. Koch & Berendt, 1854	Pa	Baltic amber
1126.	<i>Sosybius minor</i> C. L. Koch & Berendt, 1854*	Pa	Baltic amber
1127.	<i>Sosybius mizgirisi</i> Wunderlich, 2004am	Pa	Baltic amber
1128.	<i>Sosybius parva</i> (Petrunkevitch, 1942)	Pa	Baltic amber
1129.	<i>Sosybius perniciosus</i> Wunderlich, 2004a	Pa	Baltic amber
1130.	<i>Sosybius rufa</i> (Petrunkevitch, 1942)	Pa	Baltic amber
1131.	<i>Sosybius similis</i> Petrunkevitch, 1942	Pa	Baltic amber
1132.	<i>Sosybius succineus</i> (Petrunkevitch, 1942)	Pa	Baltic amber
1133.	<i>Sosybius tibialis</i> Wunderlich, 2004am	Pa	Baltic amber
1134.	<i>Sosybius unispinosus</i> Wunderlich, 2004am	Pa	Baltic amber
	<i>Sosybius</i> sp. in Wunderlich (2004am, ar)	Pa	Baltic / Rovno amber
† Thereola Petrunkevitch, 1955		Palaeogene	
	= † <i>Therea</i> Koch & Berendt, 1854 [preoccupied]		
1135.	<i>Thereola petiolata</i> (C. L. Koch & Berendt, 1854)* [♀ = ? <i>Dasuminia</i> sp. according to Wunderlich 2004b]	Pa	Baltic amber
1136.	<i>Thereola pubescens</i> (Menge in C. L. Koch & Berendt, 1854)	Pa	Baltic amber

† <i>Trochanteridromulus</i> Wunderlich, 2004am	Palaeogene
1137. <i>Trochanteridromulus glabripes</i> Wunderlich, 2004am*	Pa Baltic amber
† <i>Trochanteridromus</i> Wunderlich, 2004am	Palaeogene
1138. <i>Trochanteridromus scutatus</i> Wunderlich, 2004am*	Pa Baltic amber
† <i>Veterator</i> Petrunkevitch, 1963	Neogene
1139. <i>Veterator angustus</i> Wunderlich, 1988	Ne Dominican amber
1140. <i>Veterator ascutum</i> Wunderlich, 1988	Ne Dominican amber
1141. <i>Veterator extinctus</i> Petrunkevitch, 1963*	Ne Chiapas amber
1142. <i>Veterator incompletus</i> Wunderlich, 1982	Ne Dominican amber
1143. <i>Veterator longipes</i> Wunderlich, 1988	Ne Dominican amber
1144. <i>Veterator loricatus</i> Wunderlich, 1988	Ne Dominican amber
1145. <i>Veterator porrectus</i> Wunderlich, 1988	Ne Dominican amber
1146. <i>Veterator viduus</i> Wunderlich, 1988	Ne Dominican amber
<i>Veterator</i> sp. 1–2 in Wunderlich (1988)	Ne Dominican amber

‘CLUBIONOIDEA *incertae sedis*’

Wunderlich (2011d) proposed removing almost all the amber fossils from the clubionids *sensu stricto*. We follow this in part for the two genera below, but would prefer a more formal treatment before accepting all these transfers. In general the delimitation of even modern clubionids, and related forms, is problematic.

† <i>Concursator</i> Petrunkevitch, 1958	Palaeogene
1147. <i>Concursator nudipes</i> Petrunkevitch, 1958*	Pa Baltic amber
† <i>Systariella</i> Wunderlich, 2004af	Palaeogene
1148. <i>Systariella magniocoli</i> Wunderlich, 2004af*	Pa Baltic amber
CLUBIONIDAE Simon, 1895	Palaeogene – Recent
Clubionidae gen. et sp. in Nishikawa (1974)	Qt Mizunami copal
<i>Clubiona</i> Latreille, 1804a	Palaeogene – Recent
1149. <i>Clubiona arcana</i> Scudder, 1890a	Pa Florissant
1150. <i>Clubiona attenuata</i> C. L. Koch & Berendt, 1854	Pa Baltic amber
1151. <i>Clubiona curvispinosa</i> Petrunkevitch, 1922	Pa Florissant
1152. <i>Clubiona florissanti</i> Petrunkevitch, 1922	Pa Florissant
1153. <i>Clubiona lanata</i> C. L. Koch & Berendt, 1854	Pa Baltic amber
1154. <i>Clubiona microphthalma</i> C. L. Koch & Berendt, 1854	Pa Baltic amber
1155. <i>Clubiona pubescens</i> C. L. Koch & Berendt, 1854	Pa Baltic amber
1156. <i>Clubiona sericea</i> C. L. Koch & Berendt, 1854	Pa Baltic amber
1157. <i>Clubiona tomentosa</i> C. L. Koch & Berendt, 1854	Pa Baltic amber
† <i>Desultor</i> Petrunkevitch, 1942	Palaeogene
1158. <i>Desultor depressus</i> Petrunkevitch, 1942	Pa Baltic amber
<i>Elaver</i> O. P.-Cambridge, 1898	Neogene – Recent
1159. <i>Elaver nutua</i> (Wunderlich, 1988)	Ne Dominican amber
† <i>Eobumbatrix</i> Petrunkevitch, 1922	Palaeogene

1160.	<i>Eobumbatrix latebrosa</i> (Scudder, 1890a)*	Pa Florissant
†	Eodoter Petrunkevitch, 1958	Palaeogene
1161.	<i>Eodoter eopala</i> Wunderlich, 2004af	Pa Baltic amber
1162.	<i>Eodoter lonimammillae</i> Wunderlich, 2012c	Pa Baltic amber
1163.	<i>Eodoter magnificus</i> Petrunkevitch, 1958*	Pa Baltic amber
1164.	<i>Eodoter scutatus</i> Wunderlich, 2011d	Pa Baltic amber
1165.	? <i>Eodoter tibialis</i> Wunderlich, 2011d	Pa Baltic amber
†	Eostentatrix Petrunkevitch, 1922	Palaeogene
1166.	<i>Eostentatrix cockerelli</i> Petrunkevitch, 1922	Pa Florissant
1167.	<i>Eostentatrix ostentata</i> (Scudder, 1890a)*	Pa Florissant
†	Eoversatrix Petrunkevitch, 1922	Palaeogene
1168.	<i>Eoversatrix eversa</i> (Scudder, 1890a)*	Pa Florissant
†	Machilla Petrunkevitch, 1958 [family uncertain]	Palaeogene
1169.	<i>Machilla setosa</i> Petrunkevitch, 1958*	Pa Baltic amber
†	Massula Petrunkevitch, 1942 [family uncertain]	Palaeogene
1170.	<i>Massula klebsi</i> Petrunkevitch, 1942*	Pa Baltic amber
†	Prosocer Petrunkevitch, 1963	Neogene
1171.	<i>Prosocer mollis</i> Petrunkevitch, 1963*	Ne Chiapas amber
Clubionidae incertae sedis		
†	Chiapasona Petrunkevitch, 1963	Neogene
1172.	<i>Chiapasona defuncta</i> Petrunkevitch, 1963*	Ne Chiapas amber
ANYPHAENIDAE Bertkau, 1878a		
	= AMAUROBIOIDIDAE Hickman, 1949	Palaeogene – Recent
Anyphaena Sundevall, 1833		
1173.	' <i>Anyphaena</i> ' <i>fuscata</i> C. L. Koch & Berendt, 1854	Pa Baltic amber
Anyphaenoides Berland, 1913		
1174.	<i>Anyphaenoides bulla</i> (Wunderlich, 1988)	Ne Dominican amber
Lupettiana Brescovit, 1997		
1175.	<i>Lupettiana ligula</i> (Wunderlich, 1988)	Ne Dominican amber
Wulfila O. P.-Cambridge, 1895		
1176.	<i>Wulfila spinipes</i> Wunderlich, 1988	Ne Dominican amber
GALLIENIELLIDAE Millot, 1947		
no fossil record		
LIOCRANIDAE Simon, 1897a		
	?Liocranidae <i>in</i> Wunderlich (1988)	Ne Dominican amber
Apostenus Westring, 1851		
1177.	<i>Apostenus arnoldorum</i> Wunderlich, 2004ag	Pa Baltic amber
1178.	<i>Apostenus bigibber</i> Wunderlich, 2004ag	Pa Baltic / Bitt. amber

1179.	<i>Apostenus spinimanus</i> (C. L. Koch & Berendt, 1854)	Pa	Baltic amber
Donuea Strand, 1932		Quaternary – Recent	
1180.	<i>Donuea collustrata</i> Bosselaers & Dierick, 2010 [Recent]	Qt – R	Madagascar
† Palaeospinisoma Wunderlich, 2004ag		Palaeogene	
1181.	<i>Palaeospinisoma femoralis</i> Wunderlich, 2004ag*	Pa	Baltic amber
TRACHELIDAE Simon, 1897		Neogene – Recent	
Trachelas L. Koch, 1872		Neogene	
1182.	<i>Trachelas poinari</i> Penney, 2001	Ne	Dominican amber
CITHAERONIDAE Simon, 1893		Recent	
no fossil record			
PHRULOLITHIDAE Banks, 1892		Palaeogene – Recent	
Phrurolithus C. L. Koch, 1839b		Palaeogene – Recent	
1183.	<i>Phrurolithus extinctus</i> Petrunkevitch, 1958	Pa	Baltic amber
1184.	<i>Phrurolithus fossilis</i> Petrunkevitch, 1958	Pa	Baltic amber
1185.	<i>Phrurolithus ipseni</i> Petrunkevitch, 1958	Pa	Baltic amber
† EPHALMATORIDAE Petrunkevitch, 1950		Palaeogene	
† Ephalmator Petrunkevitch, 1950		Palaeogene	
1186.	<i>Ephalmator bitterfeldensis</i> Wunderlich, 2004ad	Pa	Bitterfeld amber
1187.	<i>Ephalmator calidus</i> Wunderlich, 2004ad	Pa	Baltic amber
1188.	<i>Ephalmator debilis</i> Wunderlich, 2004ad	Pa	Baltic amber
1189.	<i>Ephalmator distinctus</i> Wunderlich, 2004ad	Pa	Baltic amber
1190.	<i>Ephalmator ellwangeri</i> Wunderlich, 2004ad	Pa	Baltic amber
1191.	? <i>Ephalmator eximius</i> Petrunkevitch, 1958	Pa	Baltic amber
1192.	<i>Ephalmator fossilis</i> Petrunkevitch, 1950*	Pa	Baltic amber
1193.	<i>Ephalmator kerneggeri</i> Wunderlich, 2004ad	Pa	Baltic amber
1194.	<i>Ephalmator petrunkevitchi</i> Wunderlich, 2004ad	Pa	Baltic amber
1195.	<i>Ephalmator ruthildae</i> Wunderlich, 2004ad	Pa	Baltic amber
1196.	<i>Ephalmator tredecim</i> Wunderlich, 2012c	Pa	Baltic amber
1197.	<i>Ephalmator trudis</i> Wunderlich, 2004ad	Pa	Baltic amber
1198.	<i>Ephalmator turpiculus</i> Wunderlich, 2004ad	Pa	Baltic amber
	<i>Ephalmator</i> sp. in Wunderlich (2004ad)	Pa	Baltic amber
AMMOXENIDAE Simon, 1893		Recent	
no fossil record			
LAMPONIDAE Simon, 1893		Recent	
no fossil record			

GNAPHOSIDAE Pocock, 1898	?Cretaceous – Recent
= DRASSIDAE Sundevall, 1833 [based on a generic synonym]	
† Captrix Petrunkevitch, 1942	Palaeogene
1199. <i>Captrix lineata</i> (C. L. Koch & Berendt, 1854)*	Pa Baltic amber
Drassodes Westring, 1851	Palaeogene – Recent
1200. <i>Drassodes cupreus</i> (Blackwall, 1834a) [Recent]	Qt England
1201. ? <i>Drassodes femurus</i> Lin, Zhang & Wang, 1989	Ne Shanwang
1202. ? <i>Drassodes sextii</i> Berland, 1939	Pa Aix-en-Provence
† Drassyllinus Wunderlich, 1988	Neogene
1203. <i>Drassyllinus aliter</i> Wunderlich, 1988*	Ne Dominican amber
† Eognaphosops Wunderlich, 2011b	Palaeogene
1204. <i>Eognaphosops cryptoplanoides</i> Wunderlich 2011b*	Pa Baltic amber
† Eomactator Petrunkevitch, 1958	Palaeogene
1205. <i>Eomactator hamatus</i> Wunderlich, 2011b	Pa Baltic amber
1206. <i>Eomactator hirsutipes</i> Wunderlich, 2011b	Pa Baltic amber
1207. <i>Eomactator mactatus</i> Petrunkevitch, 1958*	Pa Baltic amber
1208. <i>Eomactator obscurior</i> Wunderlich, 2011b	Pa Baltic amber
Gnaphosa Latreille, 1804a	?Cretaceous – Recent
1209. <i>Gnaphosa affinis</i> (C. L. Koch & Berendt, 1854)	Pa Baltic amber
i. = <i>Philodromus dubius</i> C. L. Koch & Berendt, 1854	
1210. <i>Gnaphosa ambigua</i> (C. L. Koch & Berendt, 1854)	Pa Baltic amber
1211. <i>Gnaphosa liaoningensis</i> Chang, 2004 [generic assignment unreliable!]	K Jehol biota
Micaria Westring, 1851	Palaeogene – Recent
1212. <i>Micaria procera</i> C. L. Koch & Berendt, 1854	Pa Baltic amber
1213. <i>Micaria tenella</i> Heer, 1865	Ne Öhningen
† Palaeodrassus Petrunkevitch, 1922	Palaeogene
1214. <i>Palaeodrassus cockerelli</i> Petrunkevitch, 1922	Pa Florissant
1215. <i>Palaeodrassus florissanti</i> Petrunkevitch, 1922	Pa Florissant
1216. <i>Palaeodrassus hesternus</i> (Scudder, 1890a)	Pa Florissant
1217. <i>Palaeodrassus ingenuus</i> (Scudder, 1890a)*	Pa Florissant
1218. <i>Palaeodrassus interitus</i> (Scudder, 1890a)	Pa Florissant
Scopoides Platnick, 1989	Palaeogene – Recent
1219. <i>Scopoides dominicanus</i> Wunderlich, 2011g	Ne Dominican amber
Zelotes Gistel, 1848	Palaeogene
1220. <i>Zelotes concinna</i> (C. L. Koch & Berendt, 1854)	Pa Baltic amber
1221. <i>Zelotes mundula</i> (C. L. Koch & Berendt, 1854)	Pa Baltic ambe
ii. = <i>Melanophora nobilis</i> C. L. Koch & Berendt, 1854	
1222. <i>Zelotes regalis</i> (C. L. Koch & Berendt, 1854)	Pa Baltic amber
† Zelotetis Wunderlich, 2011b	Palaeogene
1223. <i>Zelotetis calefacta</i> Wunderlich, 2011b	Pa Baltic amber

CORINNIDAE Karsch, 1880a **Palaeogene – Recent**

= MYRMECIIDAE C. L. Koch, 1851 [name already used for ants]

NB: Extinct genera were not considered in the otherwise comprehensive revision of Ramírez (2014), some fossil corinnids may now belong in other families.

- † **Ablator Petrunkevitch, 1942** **Palaeogene**
 = † *Abligurator* Petrunkevitch, 1942
1224. *Ablator biguttatus* Wunderlich, 2004ah Pa Baltic amber
 1225. *Ablator curvatus* Wunderlich, 2004ah Pa Baltic amber
 1226. *Ablator deminuens* Wunderlich, 2004ah Pa Baltic amber
 1227. *Ablator depressus* Wunderlich, 2004ah Pa Baltic amber
 1228. *Ablator duomammillae* Wunderlich, 2004ah Pa Baltic amber
 1229. *Ablator felix* (Petrunkevitch, 1958) Pa Baltic amber
 1230. *Ablator inevolvens* Wunderlich, 2004ah Pa Baltic amber
 1231. *Ablator longus* Wunderlich, 2004ah Pa Baltic amber
 1232. *Ablator nonguttatus* Wunderlich, 2004ah Pa Baltic amber
 1233. *Ablator parvus* Wunderlich, 2004ah Pa Baltic amber
 1234. *Ablator plumosus* (Petrunkevitch, 1950) Pa Baltic amber
 1235. *Ablator robustus* Wunderlich, 2004ah Pa Baltic amber
 1236. *Ablator scutatus* Wunderlich, 2004ah Pa Baltic amber
 1237. *Ablator splendens* Wunderlich, 2004ah Pa Baltic amber
 1238. *Ablator triguttatus* (C. L. Koch & Berendt, 1854)* Pa Baltic ambe
 i. = *Philodromus microcephalus* C. L. Koch & Berendt,
 1854 Pa Baltic amber
 ii. = *Philodromus squamiger* C. L. Koch & Berendt, 1854 Pa Baltic amber
 iii. = *Abligurator niger* Petrunkevitch, 1942 Pa Baltic amber
- † **Alterphrurolithus Wunderlich, 2004ah** **Palaeogene**
 1239. *Alterphrurolithus longipes* Wunderlich, 2004ah Pa Baltic amber
- Castianeira Keyserling, 1880b** **Neogene – Recent**
 1240. *Castianeira tenebricosa* Wunderlich, 1988 Ne Dominican amber
- † **Chemmisomma Wunderlich, 1988** **Neogene**
 1241. *Chemmisomma dubia* Wunderlich, 1988* Ne Dominican amber
- Corinna C. L. Koch, 1842a** **Neogene – Recent**
 1242. *Corinna flagelliformis* Wunderlich, 1988 Ne Dominican amber
- † **Cornucymbium Wunderlich, 2004ah** **Palaeogene**
 1243. *Cornucymbium insolens* Wunderlich, 2004ah* Pa Baltic amber
- † **Cryptoplanus Petrunkevitch, 1958** **Palaeogene**
 1244. *Cryptoplanus bulbosus* Wunderlich, 2004ah Pa Baltic amber
 1245. *Cryptoplanus complicatus* Wunderlich, 2004ah Pa Baltic amber
 1246. *Cryptoplanus incidens* Wunderlich, 2004ah Pa Baltic amber
 1247. *Cryptoplanus lanatus* (Petrunkevitch, 1958) Pa Baltic amber

1248.	<i>Cryptoplanus paradoxus</i> Petrunkevitch, 1958*	Pa	Baltic amber
1249.	<i>Cryptoplanus sericatus</i> (C. L. Koch & Berendt, 1854)	Pa	Baltic amber
1250.	<i>Cryptoplanus sinuosus</i> Wunderlich, 2004ah	Pa	Baltic amber
	<i>Cryptoplanus</i> sp. in Wunderlich (2004ah)	Pa	Baltic amber
†	Eomazax Petrunkevitch, 1958		Palaeogene
1251.	<i>Eomazax pulcher</i> Petrunkevitch, 1958*	Pa	Baltic amber
	Megalostrata Karsch, 1880a		Neogene – Recent
1252.	<i>Megalostrata grandis</i> Wunderlich, 1988	Ne	Dominican amber
†	Myrmecorinna Wunderlich, 2004ah		Palaeogene
1253.	<i>Myrmecorinna gracilis</i> Wunderlich, 2004ah*	Pa	Baltic amber
†	Palpiraptor Wunderlich, 2011f		Quaternary
1254.	<i>Palpiraptor myrmarachnoides</i> Wunderlich, 2011f*	Qt	Madagascar copal
†	Protoorthobula Wunderlich, 2004ah		Palaeogene
1255.	<i>Protoorthobula bifida</i> Wunderlich, 2004ah*	Pa	Baltic amber
1256.	<i>Protoorthobula deelemani</i> Wunderlich, 2004ah	Pa	Baltic / Bitt. Amber
	VIRIDASIIDAE Lehtinen, 1967		Recent
	No fossil record		
	SELENOPIIDAE Simon, 1897a		Palaeogene – Recent
	Selenopidae <i>incertae sedis</i> in Selden & Wang (2014)	Pa	Baltic amber
†	Garcorops Corronca, 2003		Quaternary – Recent
1257.	<i>Garcorops jadis</i> Bosselaers, 2004	Qt	Madagascar copal
	i. = ? <i>Anyphops cortex</i> Wunderlich, 2004as	Qt	Madagascar copal
	Selenops Latreille, 1819		Palaeogene – Recent
1258.	<i>Selenops benoiti</i> Wunderlich, 2004as	Qt	Madagascar copal
1259.	<i>Selenops beynai</i> Schawaller, 1984	Ne	Dominican amber
1260.	<i>Selenops dominicanus</i> Wunderlich, 2004an	Ne	Dominican amber
	<i>Selenops</i> sp. in Wunderlich (1988)	Ne	Dominican amber
	<i>Selenops</i> sp. in García-Villafuerte (2006b)	Ne	Chiapas amber
	<i>Selenops</i> sp. in Penney (2007)	Pa	Le Quesnoy amber
	MITURGIDAE Simon, 1885a		Palaeogene – Recent
	= ZORIDAE F.O.P.-Cambridge, 1893		
†	Zorapostenus Wunderlich, 2008c		Palaeogene
1261.	<i>Zorapostenus raveni</i> Wunderlich, 2008c	Pa	Baltic amber
	EUTICHURIDAE Lehtinen, 1967		Recent
	= CHEIRACANTHIDAE Wagner, 1887		
	Strotarchus Simon, 1888		Neogene – Recent
	= † <i>Mimeutychurus</i> Petrunkevitch, 1963 [tentative synonymy]		
1262.	<i>Strotarchus heidti</i> Wunderlich, 1988	Ne	Dominican amber

1263.	<i>Strotarchus paradoxus</i> (Petrunkevitch, 1963)	Ne Chiapas amber
PHILODROMIDAE Thorell, 1870a		Cretaceous – Recent
	Philodromidae sp. <i>in</i> Wunderlich (1988)	Ne Dominican amber
	Philodromidae sp. <i>in</i> Wunderlich (2004ae)	Ne Baltic amber
† Cretadromus Cheng, Shen & Gao, 2009		Cretaceous
1264.	<i>Cretadromus liaoningensis</i> Cheng, Shen & Gao, 2009	K Liaoning Province
	NB: Wunderlich (2012d) suggested this could be a Theridosomatidae	
† Eoathanatus Petrunkevitch, 1950		Palaeogene – Recent
1265.	<i>Eoathanatus diritatis</i> Petrunkevitch, 1950*	Pa Baltic amber
SALTICIDAE Blackwall, 1841		Palaeogene – Recent
	= ATTIDAE Sundevall, 1833 [based on a generic synonym]	
	= LYSSOMANIDAE Peckham & Wheeler, 1889	
	Salticidae gen. et sp. <i>in</i> Schawaller (1982d)	Ne Willershausen
	Salticidae <i>incertae sedis in</i> Selden (2014b)	Pa Isle of Wight
† Almolinus Petrunkevitch, 1958		Palaeogene
1266.	<i>Almolinus bitterfeldensis</i> Wunderlich, 2004aq	Pa Bitterfeld amber
1267.	<i>Almolinus clarus</i> Petrunkevitch, 1958*	Pa Baltic amber
1268.	<i>Almolinus ligula</i> Wunderlich, 2004aq	Pa Baltic amber
	? <i>Almolinus</i> sp. <i>in</i> Wunderlich (2004aq)	Pa Baltic amber
† Attoides Brongniart, 1877		Palaeogene
1269.	<i>Attoides eresiformis</i> Brongniart, 1877	Pa Aix-en-Provence
† Calilinus Wunderlich, 2004aq		Palaeogene
1270.	<i>Calilinus fleissneri</i> Wunderlich, 2004aq*	Pa Baltic amber
† Cenattus Petrunkevitch, 1942		Palaeogene
1271.	<i>Cenattus exophthalmicus</i> Petrunkevitch, 1942*	Pa Baltic amber
Corythalia C. L. Koch, 1851		Neogene – Recent
1272.	<i>Corythalia ocululiter</i> Wunderlich, 1988	Ne Dominican amber
1273.	<i>Corythalia pilosa</i> Wunderlich, 1982	Ne Dominican amber
1274.	<i>Corythalia scissa</i> Wunderlich, 1988	Ne Dominican amber
† Descangeles Wunderlich, 1988		Neogene
1275.	<i>Descangeles pygmaeus</i> Wunderlich, 1988*	Ne Dominican amber
	<i>Descangeles</i> sp. 1–2 <i>in</i> Wunderlich (1988)	Ne Dominican amber
Descanso Peckham & Peckham, 1892		Neogene – Recent
	<i>Descanso</i> sp. <i>in</i> Wunderlich (1988)	Ne Dominican amber
† Distanilinus Wunderlich, 2004aq		Palaeogene
1276.	<i>Distanilinus filum</i> Wunderlich, 2004aq	Pa Baltic amber
1277.	<i>Distanilinus nutus</i> Wunderlich, 2004aq*	Pa Baltic amber
1278.	<i>Distanilinus paranutus</i> Wunderlich, 2004aq	Pa Baltic amber
1279.	<i>Distanilinus pernutus</i> Wunderlich, 2004aq	Pa Baltic amber
† Eoattopsis Gourret, 1887		Palaeogene

1280.	<i>Eoattopsis hirsutus</i> Gourret, 1887*	Pa Aix-en-Provence
†	Eolinus Petrunkevitch, 1942	Palaeogene
1281.	<i>Eolinus balticus</i> Žabka, 1988	Pa Baltic amber
1282.	<i>Eolinus fungus</i> Wunderlich, 2004aq	Pa Baltic amber
1283.	<i>Eolinus insuriens</i> Wunderlich, 2004aq	Pa Baltic amber
1284.	<i>Eolinus prominens</i> Wunderlich, 2004aq	Pa Baltic amber
1285.	<i>Eolinus samlandica</i> Wunderlich, 2004aq	Pa Baltic amber
1286.	<i>Eolinus succineus</i> Petrunkevitch, 1942*	Pa Baltic amber
1287.	<i>Eolinus theryi</i> Petrunkevitch, 1942	Pa Baltic amber
1288.	<i>Eolinus theryoides</i> Wunderlich, 2004aq	Pa Baltic amber
1289.	<i>Eolinus tystschenkoi</i> Proszynski & Žabka, 1980	Pa Baltic amber
1290.	<i>Eolinus vates</i> Wunderlich, 2004aq	Pa Baltic amber
	<i>Eolinus</i> sp. in Wunderlich (2004aq)	Pa Baltic amber
	Euophrys C. L. Koch, 1834	Palaeogene – Recent
1291.	<i>Euophrys gibberula</i> (C. L. Koch & Berendt, 1854)	Pa Baltic amber
1292.	<i>Euophrys randeckensis</i> Schawaller & Ono, 1979	Ne Randecker Maar
†	Evagoratus Zhang, Sun & Zhang, 1994	Neogene
1293.	<i>Evagoratus longicuris</i> Zhang, Sun & Zhang, 1994	Ne Shanwang
†	Gorgopsidis Wunderlich, 2004aq	Palaeogene
1294.	<i>Gorgopsidis bechlyi</i> Wunderlich, 2004aq*	Pa Baltic amber
†	Gorgopsina Petrunkevitch, 1955a	Palaeogene – Neogene
1295.	<i>Gorgopsina amabilis</i> Wunderlich, 2004aq	Pa Baltic amber
1296.	<i>Gorgopsina constricta</i> Wunderlich, 2004aq	Pa Baltic amber
1297.	<i>Gorgopsina expandens</i> Wunderlich, 2004aq	Pa Baltic amber
1298.	' <i>Gorgopsina</i> ' <i>fasciata</i> (C. L. Koch & Berendt, 1854)	Pa Baltic amber
1299.	<i>Gorgopsina flexuosa</i> Wunderlich, 2004aq	Pa Baltic amber
1300.	<i>Gorgopsina formosa</i> (C. L. Koch & Berendt, 1854)	Pa Baltic amber
1301.	<i>Gorgopsina fractura</i> Wunderlich, 2004ar	Pa Rovno amber
1302.	<i>Gorgopsina frenata</i> (C. L. Koch & Berendt, 1854)*	Pa Baltic amber
1303.	<i>Gorgopsina inclusa</i> Wunderlich, 2004aq	Pa Baltic amber
1304.	<i>Gorgopsina jucunda</i> (Petrunkevitch, 1942)	Pa Baltic amber
1305.	<i>Gorgopsina marginata</i> (C. L. Koch & Berendt, 1854)	Pa Baltic amber
1306.	<i>Gorgopsina melanocephala</i> (C. L. Koch & Berendt, 1854)	Pa Baltic amber
1307.	<i>Gorgopsina naumanni</i> Giebel, 1856	Pa Baltic amber
1308.	<i>Gorgopsina paulula</i> (C. L. Koch & Berendt, 1854)	Pa Baltic amber
1309.	<i>Gorgopsina rectangularis</i> Wunderlich, 2011h	Pa Baltic amber
1310.	? <i>Gorgopsina scharffi</i> Wunderlich, 2017d	Ne Ethiopian amber
1311.	<i>Gorgopsina speciosa</i> Wunderlich, 2004aq	Pa Baltic amber
	Heliophanus C. L. Koch, 1833	Palaeogene – Recent
1312.	<i>Heliophanus extinctus</i> Berland, 1939	Pa Aix-en-Provence
	Hyllus C. L. Koch, 1846	Quaternary – Recent

	= † <i>Parevophrys</i> Petrunkevitch, 1942	
1313.	<i>Hyllus succini</i> (Petrunkevitch, 1942)	Qt Copal
	NB: Originally described as Baltic amber	
Lyssomanes Hentz, 1845	.....	Neogene – Recent
1314.	<i>Lyssomanes pristinus</i> Wunderlich, 1986	Ne Dominican amber
	i. = <i>Lyssomanes galianoae</i> Reiskind, 1989	Ne Dominican amber
1315.	<i>Lyssomanes pulcher</i> Wunderlich, 1988	Ne Dominican amber
Maevia C. L. Koch, 1846	.....	?Neogene – Recent
1316.	<i>Maevia eureka</i> Riquelme & Menéndez-Acuña, 2017	Ne Chiapas amber
† Microlinus Wunderlich, 2004aq	.....	Palaeogene
1317.	<i>Microlinus calidus</i> Wunderlich, 2004aq	Pa Baltic amber
1318.	<i>Microlinus folium</i> Wunderlich, 2004aq*	Pa Baltic amber
Myrmarachne MacLeay, 1839	.....	Quaternary – Recent
	= † <i>Entomocephalus</i> Holl, 1829 [suppressed; see ICZN Opinion 2258]	
1319.	<i>Myrmarachne formicoides</i> (Holl, 1829)	?Qt Copal [?not amber]
Neon Simon, 1876a	.....	Quaternary – Recent
1320.	<i>Neon ?reticulatus</i> (Blackwall, 1853) [Recent]	Qt England
Nilakantha Peckham & Peckham, 1901	.....	Neogene – Recent
1321.	<i>Nilakantha beugelorum</i> (Wolff, 1990)	Ne Dominican amber
† Paralinus Petrunkevitch, 1942	.....	Palaeogene
1322.	<i>Paralinus crosbyi</i> Petrunkevitch, 1942*	Pa Baltic amber
† Pensacolatus Wunderlich, 1988	.....	Neogene
1323.	<i>Pensacolatus coxalis</i> Wunderlich, 1988*	Ne Dominican amber
1324.	<i>Pensacolatus spinipes</i> Wunderlich, 1988	Ne Dominican amber
1325.	? <i>Pensacolatus tibialis</i> Wunderlich, 2004aq	Ne Dominican amber
	<i>Pensacolatus</i> sp. in Wunderlich (1988)	Ne Dominican amber
Phidippus C. L. Koch, 1846	.....	Palaeogene
1326.	<i>Phidippus impressus</i> C. L. Koch & Berendt, 1854	Pa Baltic amber
1327.	<i>Phidippus pusillus</i> C. L. Koch & Berendt, 1854	Pa Baltic amber
† Phlegrata Wunderlich, 1988	.....	Neogene
1328.	<i>Phlegrata pala</i> Wunderlich, 1988*	Ne Dominican amber
† Prolinus Petrunkevitch, 1958	.....	Palaeogene
1329.	<i>Prolinus fossilis</i> Petrunkevitch, 1958*	Pa Baltic amber
† Salticidites Straus, 1967	.....	Neogene
1330.	<i>Salticidites hercynicus</i> Straus 1967*	Ne Willershausen
Sarinda Peckham & Peckham, 1892	.....	Neogene – Recent
	? <i>Sarinda</i> sp. in Wunderlich (2004aq)	Ne Dominican amber
† Steneattus Bronn, 1856	.....	Palaeogene
	= † <i>Leda</i> C. L. Koch & Berendt, 1854 [preoccupied]	
1331.	<i>Steneattus promissa</i> (C. L. Koch & Berendt, 1854)*	Pa Baltic amber

Araneomorphae incertae sedis

† <i>Elvina</i> Thorell, 1870b	Neogene
1332. <i>Elvina antiqua</i> (von Heyden, 1859)	Ne Linz am Rhein
Araneae incertae sedis	
<i>Araneae incertae sedis</i> in Selden et al. (2014)	P Kurty, Kazakhstan
† <i>Amphiclotho</i> Gourret, 1887	Palaeogene
1333. <i>Amphiclotho breviscula</i> Gourret, 1887*	Pa Aix-en-Provence
† <i>Amphithomismus</i> Gourret, 1887	Palaeogene
1334. <i>Amphithomismus barbatus</i> Gourret, 1887*	Pa Aix-en-Provence
† <i>Atocatle</i> Feldmann, Vega, Applegate & Bishop, 1998 [really a spider?].....	Cretaceous
1335. <i>Atocatle ranulfoi</i> Feldmann, Vega, Applegate & Bishop, 1998* ...	K Puebla, México
† <i>Cercidiella</i> Gourret, 1887	Palaeogene
1336. <i>Cercidiella aquisextana</i> Gourret, 1887*	Pa Aix-en-Provence
† <i>Clubionella</i> Gourret, 1887	Palaeogene
1337. <i>Clubionella antiqua</i> Gourret, 1887*	Pa Aix-en-Provence
† <i>Eresoides</i> Gourret, 1887	Palaeogene
1338. <i>Eresoides orbicularis</i> Gourret, 1887*	Pa Aix-en-Provence
† <i>Hersilioides</i> Gourret, 1887	Palaeogene
1339. <i>Hersilioides thanatiformis</i> Gourret, 1887*	Pa Aix-en-Provence
† <i>Opisthophylax</i> Menge, 1856	Palaeogene
1340. <i>Opisthophylax exarata</i> Menge, 1856*	Pa Baltic amber
† <i>Prodysdera</i> Gourret, 1887	Palaeogene
1341. <i>Prodysdera intermedia</i> Gourret, 1887*	Pa Aix-en-Provence
† <i>Protochersis</i> Gourret, 1887	Palaeogene
1342. <i>Protochersis spinosus</i> Gourret, 1887*	Pa Aix-en-Provence
† <i>Protolachesis</i> Gourret, 1887	Palaeogene
1343. <i>Protolachesis annulata</i> Gourret, 1887*	Pa Aix-en-Provence
† <i>Paralycosa</i> Dunlop & Jekel, 2009	Palaeogene
= † <i>Protolycosa</i> Gourret, 1887 [preoccupied]	
1344. <i>Paralycosa attiformis</i> (Gourret, 1887)*	Pa Aix-en-Provence
† <i>Pseudothomismus</i> Gourret, 1887	Palaeogene
1345. <i>Pseudothomismus articulatus</i> Gourret, 1887*	Pa Aix-en-Provence
† <i>Schellenbergia</i> Heer, 1865	Neogene
1346. <i>Schellenbergia rotundata</i> Heer, 1865*	Ne Öhningen
† <i>Timeropus</i> Thorell, 1891	Palaeogene
= † <i>Lycosoides</i> Gourret, 1887 [preoccupied]	
1347. <i>Timeropus hersiliformis</i> (Gourret, 1887)*	Pa Aix-en-Provence

NOMINA DUBIA

Amaurobius C. L. Koch, 1837 [no currently valid fossil species]

1. <i>Amaurobius faustus</i> C. L. Koch & Berendt, 1854	Pa Baltic amber
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2. *Amaurobius rimosus* C. L. Koch & Berendt, 1854 Pa Baltic amber
- Auximus Simon, 1892** [now *Lathys* Simon, 1884: Dictynidae; no currently valid fossil species]
3. *Auximus fossilis* Petrunkevitch, 1950 Pa Baltic amber
4. *Auximus succini* Petrunkevitch, 1942 Pa Baltic amber
- † ***Clythia* C. L. Koch & Berendt, 1854 (*nomen dubium*)** **Palaeogene**
5. *Clythia alma* C. L. Koch & Berendt, 1854* Pa Baltic amber
- † ***Corynitoides* Dunlop & Jekel, 2009 (*nomen dubium*)** **Palaeogene**
 = † *Corynitis* Menge in C. L. Koch & Berendt, 1854 [preoccupied]
6. *Corynitoides spinosa* (Menge in C. L. Koch & Berendt, 1854)* Pa Baltic amber
7. *Corynitoides undulata* (Menge in C. L. Koch & Berendt, 1854) Pa Baltic amber
- † ***Eocryphoeca* Petrunkevitch, 1958** [also contains valid fossil species]
8. *Eocryphoeca distincta* Petrunkevitch, 1950 Pa Baltic amber
9. *Eocryphoeca fossilis* (Petrunkevitch, 1942) Pa Baltic amber
- † ***Eometa* Petrunkevitch, 1958** [also contains valid fossil species]
10. *Eometa aberrans* Petrunkevitch, 1958 Pa Baltic amber
11. *Eometa robusta* Petrunkevitch, 1958 Pa Baltic amber
- Ero C. L. Koch 1836** [also contains valid fossil species]
12. *Ero setulosa* C. L. Koch & Berendt, 1854 Pa Baltic amber
- † ***Fictotama* Petrunkevitch, 1963 (*nomen dubium*)** **Palaeogene**
13. *Fictotama extincta* Petrunkevitch, 1963* Ne Chiapas amber
- † ***Memoratrix* Petrunkevitch, 1942 (*nomen dubium*)** **Palaeogene**
 NB: Regarded by Wunderlich (2004p) as a possible pimoid or linyphiid
14. *Memoratrix rydei* Petrunkevitch, 1942 Pa Baltic amber
- † ***Mimetarchaea* Eskov, 1992** **Palaeogene**
15. *Mimetarchaea gintaras* Eskov, 1992* Pa Baltic amber
 NB: Name based on a subadult male
- † ***Miropholcus* Petrunkevitch, 1942 (*nomen dubium*)** **Palaeogene**
 = † *Micropholcus* Petrunkevitch, 1942 [lapsus]
16. *Miropholcus heteropus* Petrunkevitch, 1942* Pa Baltic amber
- † ***Perturbator* Petrunkevitch, 1971 (*nomen dubium*)** **Neogene**
17. *Perturbator corniger* Petrunkevitch, 1971* Ne Chiapas amber
- † ***Phalangopus* Menge in C. L. Koch & Berendt, 1854 (*nomen dubium*)** **Palaeogene**
18. *Phalangopus subtilis* Menge in C. L. Koch & Berendt, 1854* Pa Baltic amber
- † ***Praeoarces* Wunderlich, 2004q** **Palaeogene**
19. *Praeoarces exitus* Wunderlich, 2004q* Pa Baltic amber
- Segestria Latreille, 1804** [also contains valid fossil species]
20. *Segestria elongata* C. L. Koch & Berendt, 1854 Pa Baltic amber
21. *Segestria nana* C. L. Koch & Berendt, 1854 Pa Baltic amber

NOMINA NUDA

Amaurobius C. L. Koch, 1837 [no currently valid fossil species]

1. *Amaurobius spinimanus* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
probably belongs in *Eomatachia* (cf. Wunderlich 2017a), but species unclear
- † **Anatone Menge in C. L. Koch & Berendt, 1854 (*nomen nudum*)** **Palaeogene**
2. *Anatone hirsuta* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
3. *Anatone marginata* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
4. *Anatone spinipes* Menge in C. L. Koch & Berendt, 1854* Pa Baltic amber
- Aranea Clerck, 1757** [now *Araneus* Clerck, 1757; which also contains valid fossil species]
5. *Aranea fossilis* Keferstein, 1834 Pa Aix-en-Provence
- Archaea C. L. Koch & Berendt, 1854** [also contains valid fossil species]
6. *Archaea incomta* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
7. *Archaea sphinx* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
- † **Athera Menge in C. L. Koch & Berendt, 1854 (*nomen nudum*)** **Palaeogene**
8. *Athera exilis* Menge in C. L. Koch & Berendt, 1854* Pa Baltic amber
- Attus Walckenaer, 1805** [now *Salticus* Latreille, 1804; no currently valid fossil species]
9. *Attus fossilis* Walckenaer, 1837 Pa Baltic amber
- Clubiona Latreille, 1804** [also contains valid fossil species]
10. *Clubiona eseri* Heer, 1865 Ne Öhningen
11. *Clubiona latifrons* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
12. *Clubiona parvula* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
13. *Clubiona pilosa* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
- † **Clythia C. L. Koch & Berendt, 1854** [also contains a *nomen dubium* fossil species]
14. *Clythia funestra* Koch & Berendt, 1854 Pa Baltic amber
15. *Clythia gracilentata* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
16. *Clythia leptocarena* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
- † **Dielacata Menge in C. L. Koch & Berendt, 1854 (*nomen nudum*)** **Palaeogene**
17. *Dielacata superba* Menge in C. L. Koch & Berendt, 1854* Pa Baltic amber
- Drassus Walckenaer, 1805** [now *Gnaphosa* Latreille, 1804; which also contains valid fossil species]
18. *Drassus oblongus* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
- Dysdera Latreille, 1804** [also contains valid fossil species]
19. *Dysdera hippopodium* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
20. *Dysdera glabrata* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
21. *Dysdera scobiculata* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
22. *Dysdera tenera* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
- † **Eolinus Petrunkevitch, 1942** [also contains valid fossil species]
23. *Eolinus bitterfeldensis* Wunderlich, 2004aq Pa Baltic amber
24. *Eolinus tystschenkoides* Wunderlich, 2004aq Pa Baltic amber
- Epeira Walckenaer, 1805** [now *Araneus* Clerck, 1757; which also contains valid fossil species]
25. *Epeira eocaenica* Giebel, 1856 Pa Baltic amber
26. *Epeira eocena* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
- † **Epeiridion Menge in C. L. Koch & Berendt, 1854 (*nomen nudum*)** **Palaeogene**
27. *Epeiridion femoratum* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
- † **Erithus Menge in C. L. Koch & Berendt, 1854 (*nomen nudum*)** **Palaeogene**

28. *Erithus applanatus* Menge in C. L. Koch & Berendt, 1854* Pa Baltic amber
- Ero C. L. Koch & Berendt, 1836** [also contains valid fossil species]
29. *Ero coronata* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
30. *Ero exculpta* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
31. *Ero sphaerica* C. L. Koch & Berendt, 1854 Pa Baltic amber
32. *Ero quadripunctata* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
- † **Eyukselus Özdikmen, 2007 (*nomen nudum*)** **Palaeogene**
 = † *Propetes* Menge, 1854 [preoccupied]
33. *Eyukselus argutus* (Menge in C. L. Koch & Berendt, 1854) Pa Baltic amber
34. *Eyukselus felinus* (Menge in C. L. Koch & Berendt, 1854) Pa Baltic amber
35. *Eyukselus griseus* (Menge in C. L. Koch & Berendt, 1854) Pa Baltic amber
36. *Eyukselus latifrons* (Menge in C. L. Koch & Berendt, 1854) Pa Baltic amber
37. *Eyukselus pumilus* (Menge in C. L. Koch & Berendt, 1854) Pa Baltic amber
- Gea C. L. Koch, 1843** [also contains valid fossil species]
38. *Gea pubescens* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
- † **Heteromma Menge, 1856 (*nomen nudum*)** **Palaeogene**
39. *Heteromma intersecta* Menge, 1856* Pa Baltic amber
- † **Idmonia Menge in C. L. Koch & Berendt, 1854 (*nomen nudum*)** **Palaeogene**
40. *Idmonia virginea* Menge in C. L. Koch & Berendt, 1854* Pa Baltic amber
- Melanophora C. L. Koch, 1833** [now *Zelotes* Gistel, 1848; which also contains valid fossil species]
41. *Melanophora lepida* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
42. *Melanophora nitida* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
- Micaria Westring, 1851** [also contains valid fossil species]
43. *Micaria ovata* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
44. *Micaria squamata* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
45. *Micaria tenuis* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
- Micryphantes C. L. Koch, 1833** [also contains valid fossil species]
46. *Micryphantes globulus* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
47. *Micryphantes turritus* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
- † **Mizalia C. L. Koch & Berendt, 1854** [also contains valid fossil species]
48. *Mizalia truncata* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
- † **Ocia Menge in C. L. Koch & Berendt, 1854 (*nomen nudum*)** **Palaeogene**
49. *Ocia hirsuta* Menge in C. L. Koch & Berendt, 1854* Pa Baltic amber
- Ocypete C. L. Koch, 1836** [now *Heteropoda* Latreille, 1804; which also contains valid fossil species]
50. *Ocypete angustifrons* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
51. *Ocypete marginata* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
- † **Onca Menge in C. L. Koch & Berendt, 1854 (*nomen nudum*)** **Palaeogene**
52. *Onca lepida* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
53. *Onca pumila* Menge in C. L. Koch & Berendt, 1854* Pa Baltic amber
- Philodromus Walckenaer, 1826** [also contains valid fossil species]
54. *Philodromus griseus* Menge, 1856 Pa Baltic amber
55. *Philodromus marginatus* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber

56. *Philodromus reptans* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
57. *Philodromus redogradus* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
58. *Philodromus spinipes* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
- Pythonissa C. L. Koch, 1837** [now *Gnaphosa* Latreille, 1804; which also contains valid fossil species]
59. *Pythonissa bipunctata* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
60. *Pythonissa discophora* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
61. *Pythonissa glabra* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
62. *Pythonissa villosa* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
- Segestria Latreille, 1804** [also contains valid fossil species]
63. *Segestria exarata* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
64. *Segestria sulcata* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
65. *Segestria undulata* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
- † **Siga Menge in C. L. Koch & Berendt, 1854 (*nomen nudum*)** **Palaeogene**
66. *Siga crinita* Menge in C. L. Koch & Berendt, 1854* Pa Baltic amber
- † **Spheconia Menge in C. L. Koch & Berendt, 1854 (*nomen nudum*)** **Palaeogene**
67. *Spheconia brevipes* Menge in C. L. Koch & Berendt, 1854* Pa Baltic amber
- † **Syphax C. L. Koch & Berendt, 1854** [also contains valid fossil species]
68. *Syphax hirtus* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
- Theridium Walckenaer, 1805** [now *Theridion* Walckenaer, 1805; which also contains valid fossil species]
69. *Theridium bifurcum* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
70. *Theridium chorius* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
71. *Theridium clavigerum* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
72. *Theridium crassipes* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
73. *Theridium setulosum* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
- Thomisus Walckenaer, 1805** [also contains valid fossil species]
74. *Thomisus matutinus* Menge, 1856 Pa Baltic amber
- † **Thyelia C. L. Koch & Berendt, 1854** [also contains valid fossil species]
75. *Thyelia mengei* Giebel, 1856 Pa Baltic amber
76. *Thyelia pectinata* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
77. *Thyelia spinosa* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
- † **Zilla C. L. Koch & Berendt, 1834** [also contains valid fossil species]
78. *Zilla cornumana* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber
79. *Zilla spinipalpa* Menge in C. L. Koch & Berendt, 1854 Pa Baltic amber

MISIDENTIFICATIONS

- Aranea Clerck, 1757** [now *Araneus* Clerck, 1757; which also contains valid fossil species]
1. *Aranea fusca pilosa* Bloch, 1776 [*nomen dubium*; non Araneae?] Qt Copal
- † **Araneaovius Dunlop & Braddy, 2011 [ichnogenus]** **Palaeogene**
2. *Araneaovius columbiae* (Scudder 1878)* [fossil egg sac] Pa Canada / USA
- † **Archaeometa Pocock, 1911** **?Devonian**
3. ?*Archaeometa devonica* Størmer, 1976 [unidentifiable] D Alken an der Mosel

† <i>Eopholcus</i> Frič, 1904	Carboniferous
4. <i>Eopholcus pedatus</i> Frič, 1904* [not identified]	C Nýřany
† <i>Oichnus</i> Bromley 1981 [ichnogenus]	Palaeogene
5. <i>Oichnus bavincourti</i> (Vaillant, 1909) [at one stage placed in <i>Cteniza</i>]	Pa Northern France
† <i>Palpipes</i> Roth, 1854	Jurassic
6. <i>Palpipes cursor</i> Roth, 1854 [crustacean]	J Solnhofen
† <i>Palaeocteniza</i> Hirst, 1923	Devonian
7. <i>Palaeocteniza crassipes</i> Hirst, 1923* [juvenile trigonotarbid?]	D Rhynie chert
† <i>Pleurolycosa</i> Frič, 1904	Carboniferous
8. <i>Pleurolycosa prolifera</i> (Frič, 1901)* [unidentifiable]	C Nýřany

47,118 Recent species according to the WSC (2018)

HAPTOPODA

1 currently valid species of fossil haptopod

† HAPTOPODA Pocock, 1911	Carboniferous
† PLESIOSIRONIDAE Pocock, 1911	Carboniferous
† <i>Plesiosiro</i> Pocock, 1911	Carboniferous
1. <i>Plesiosiro madeleyi</i> Pocock, 1911	C Coseley

no Recent species

AMBLYPYGI

11 currently valid species of fossil whip spider

AMBLYPYGI Thorell, 1882	Carbon. – Recent
= PHRYNÉIDES Walckenaer, 1837	
= PHRYNICHIDA Petrunkevitch, 1945a	
PALAEOAMBLYPYGI Weygoldt, 1996 (suborder)	Carbon. – Recent
† WEYGOLDTINIDAE Dunlop, 2018	Carboniferous
† <i>Weygoldtina</i> Dunlop, 2018	Carboniferous
1. <i>Weygoldtina anglica</i> (Pocock, 1911)	C Coseley
2. <i>Weygoldtina scudderi</i> (Pocock, 1911)*	C Mazon Creek
PARACHARONTIDAE Weygoldt, 1996	Carbon. – Recent
† <i>Paracharonopsis</i> Engel & Grimaldi, 2014	Palaeogene
3. <i>Paracharonopsis cambayensis</i> Engel & Grimaldi, 2014*	Pa Cambay amber
EUAMBLYPYGI Weygoldt, 1996 (suborder)	Carbon – Recent
FAMILY UNCERTAIN	
† <i>Sorellophrynus</i> Harvey, 2002	Carboniferous
= † <i>Protosphrynus</i> Petrunkevitch, 1913 (preoccupied)	
4. <i>Sorellophrynus carbonarius</i> (Petrunkevitch, 1913)*	C Mazon Creek
CHARINIDAE Quintero, 1986	Recent
no fossil record	
NEOAMBLYPYGI Weygoldt, 1996 (infraorder)	Cretaceous – Recent
CHARONTIDAE Simon, 1892a	Recent
no fossil record	
UNIDISTITARSATA Engel & Grimaldi, 2014	Cretaceous – Recent
† <i>Kronocharon</i> Engel & Grimaldi, 2014	Cretaceous
5. <i>Kronocharon engeli</i> Wunderlich, 2015c	K Burmese amber
6. <i>Kronocharon longicalcaris</i> Wunderlich, 2015c	K Burmese amber
7. <i>Kronocharon preordinii</i> Engel & Grimaldi, 2014*	K Burmese amber
PHRYNOIDEA Blanchard, 1852	Cretaceous – Recent
PHRYNICHIDAE Simon, 1892a	Recent
no fossil record	

PHRYNIDAE Blanchard, 1852 **Cretaceous – Recent**
 = † **ELECTROPHRYNIDAE Petrunkevitch, 1971**

† ***Britopygus* Dunlop & Martill, 2002** **Cretaceous**

8. *Britopygus weygoldti* Dunlop & Martill, 2002 K Crato Formation

***Phrynus* Lamarck, 1801** **Neogene – Recent**

9. *Phrynus mexicana* Poinar & Brown, 2004 Ne Chiapas amber

10. *Phrynus resinae* (Schawaller, 1979b) Ne Dominican amber

AMBLYPYGI INCERTAE SEDIS

† ***Thelyphrynus* Petrunkevitch, 1913** **Carboniferous**

11. *Thelyphrynus elongatus* Petrunkevitch, 1913 C Mazon Creek

NOMINA DUBIA

† ***Graeophonus* Scudder, 1890b** **Carboniferous**

NB: Dunlop (2018) treated the entire genus as a *nomen dubium* as its type species is the fossil
L. carbonaria (see below), which is not demonstrably a whip spider

1. *Electrophrynus mirus* Petrunkevitch, 1971 Ne Chiapas amber

2. *Libellula carbonaria* Scudder, 1876 C Cape Breton

NB: based on an abdomen only which cannot be meaningfully ascribed to any particular arthropod group

3. *Phrynus fossilis* Keferstein, 1834 Pa Aix-en-Provence

i. = *Phrynus marioni* Gourret, 1887 Pa Aix-en-Provence

136 Recent species according to Harvey (2003)

UROPYGI

9 currently valid species of fossil whip scorpion

UROPYGI Thorell, 1882	Carbon. – Recent
= THELYPHONIDA Latreille, 1804b	
= UROTRICHA C. L. Koch, 1851	
= OXOPOEI Thorell, 1888	
= HOLOPELTIDIA Börner, 1902	
<i>Thelyphonida</i> sp. <i>in</i> Selden <i>et al.</i> 2014	C Donets Basin
plesion genera	
† <i>Geralinura</i> Scudder, 1884	Carboniferous
1. <i>Geralinura britannica</i> Pocock, 1911	C Coseley
2. <i>Geralinura carbonaria</i> Scudder, 1884*	C Mazon Creek
i. = <i>Geralinura gigantea</i> Petrunkevitch, 1913	C Mazon Creek
ii. = <i>Geralinura similis</i> Petrunkevitch, 1913	C Mazon Creek
† <i>Parageralinura</i> Tetlie & Dunlop, 2008	Carboniferous
3. <i>Parageralinura marsiglioi</i> Selden, Dunlop & Simonetto, 2016	C Carnic Alps
4. <i>Parageralinura naufraga</i> (Brauckmann & Koch, 1983)*	C Hagen-Vorhalle
5. <i>Parageralinura neerlandicus</i> Laurentiaux-Viera & Laurentiaux, 1961.....	C Limburg
† <i>Proschizomus</i> Dunlop & Horrocks, 1996	Carboniferous
6. <i>Proschizomus petrunkevitchi</i> Dunlop & Horrocks, 1996	C Coseley
† <i>Prothelyphonus</i> Frič, 1904	Carboniferous
7. <i>Prothelyphonus bohemicus</i> (Kušta, 1884 <i>b</i>)	C Rakovník
i. = <i>Prothelyphonus cordai</i> Frič, 1904	C Rakovník
ii. = <i>Geralinura crassa</i> Kušta, 1888	C Rakovník
iii. = <i>Geralinura noctua</i> Kušta, 1888	C Rakovník
iv. = <i>Geralinura scudderi</i> Kušta, 1888	C Rakovník
THELYPHONIDAE Lucas 1835	Cretaceous – Recent
† <i>Burmathelyphonia</i> Wunderlich, 2015c	Cretaceous
8. <i>Burmathelyphonia prima</i> Wunderlich, 2015c*	K Burmese amber
† <i>Mesoproctus</i> Dunlop, 1988	Cretaceous
9. <i>Mesoproctus rowlandi</i> Dunlop, 1998	K Crato Formation
<i>Mesoproctus</i> sp. <i>in</i> Dunlop & Martill (2002)	K Crato Formation
MISIDENTIFICATIONS	
1. <i>Thelyphonus hadleyi</i> Pierce, 1945 [unidentifiable, ?alga]	Ne California

111 Recent species according to Clouse *et al.* (2017)

SCHIZOMIDA

6 currently valid species

- the fossil family Calcitronidae cannot be meaningfully compared to the Recent families

SCHIZOMIDA Petrunkevitch, 1945b	Palaeogene – Recent
= TARTARIDES Thorell, 1888 (tribe)	
= COLOPYGA Cook, 1899 (order)	
= SCHIZOPELTIDA Börner, 1902 (tribe)	
† CALCITRONIDAE Petrunkevitch, 1945b	Palaeogene – Neogene
† <i>Calcitro</i> Petrunkevitch, 1945b	Palaeogene – Neogene
1. <i>Calcitro fisheri</i> Petrunkevitch, 1945b*	Ne Onyx Marble
2. <i>Calcitro oplonis</i> Lin in Lin <i>et al.</i> , 1988	Pa Shandong, China
HUBBARDIIDAE Cook, 1899	Neogene – Recent
<i>Antillostenochrus</i> Armas & Teruel, 2002	Neogene – Recent
3. <i>Antillostenochrus pseudoannulatus</i> (Krüger & Dunlop, 2010)	Ne Dominican Amber
† <i>Calcoschizomus</i> Pierce, 1951	Neogene
4. <i>Calcoschizomus latisternum</i> Pierce, 1951	Ne Onyx Marble
† <i>Onychothelyphonus</i> Pierce, 1950	Neogene
5. <i>Onychothelyphonus bonneri</i> Pierce, 1950	Ne Onyx Marble
<i>Rowlandius</i> Reddell & Cokendolpher, 1995	Neogene – Recent
6. <i>Rowlandius velteni</i> (Krüger & Dunlop, 2010)	Ne Dominican Amber
PROTOSCHIZOMIDAE Rowland, 1975	Recent
no fossil record	

305 Recent species according to Clouse *et al.* (2017)

References

- Absolon, K. & Kratochvíl, J. 1932. Zur Kenntnis der höhlenbewohnenden Araneae der illyrischen Karstgebiete. *Mitteilungen über Höhlen- und Karstforschung*, 3: 73–81.
- Agassiz, L. 1844. *Monographie des poisons fossils du Vieux Gres Rouge ou Systeme Devonian*. Neufchatel, folio: 171 pp.
- Allen, J. G. & Feldman, R. M. 2005. *Panduralimulus babcocki* n. gen. and sp., a new Limulacean horseshoe crab from the Permian of Texas. *Journal of Paleontology*, 79: 594–600.
- Ambrose, T. & Romano, M. 1972. New Upper Carboniferous Chelicerata (Arthropoda) from Somerset, England. *Palaeontology* 15: 569–578.
- Ambrus, B. & Hably, L. 1979. *Eriophyes daphnogene* sp. n. a fossil gall from the Upper Oligocene of Hungary. *Annales Historico-Naturales Musei Nationalis Hungarici*, 71: 55–56.
- Amerling, C. 1862. Naturökonomie der von ihm beobachteten Milben, insbesondere der Trombidieen. *Sitzungsberichte der Königlich Böhmisches Gesellschaft der Wissenschaften in Prague*, 2: 54–56.
- Ammon, L. von 1901. Ueber *Anthracomartus* aus dem Pfälzischen Carbon. *Geognostische Jahreshefte*, 13: 1–6.
- Anderson, L. I., Dunlop, J. A. & Trewin, N. H. 2000. A Middle Devonian chasmataspid arthropod from Achanarras Quarry, Caithness, Scotland. *Scottish Journal of Geology*, 36: 151–158.
- Andrée, K. 1913. Ueber *Anthracophrynus tuberculatus* nov. gen. nov. spec. aus dem productiven Karbon von Dudweiler im Saar-Revier, nebst einer Liste der bisher im Karbon Deutschland gefundenen Arachnoiden-Reste. *Jahres-Bericht und Mitteilungen der Oberrheinischen Geologischen Vereins*, 3: 89–93.
- Aoki, J. 1965. Oribatiden (Acarina) Thailands. I. *Nature and Life in Southeast Asia*, 4: 129–193.
- Aoki, J. 1966a. A remarkable new oribatid mite from South Japan (Cryptostigmata: Tokunocepheidae, fam. nov.). *Acarologia*, 8: 358–364.
- Aoki, J. 1966b. Epizotic symbiosis: an oribatid mite, *Symbioribates papuensis*, representing a new family, from cryptogamic plants growing on backs of Papuan weevils (Acari: Cryptostigmata). *Pacific Insects*, 8: 281–289.
- Aoki, J. 1974. [On the fossil mites in Mizunami amber from Gifu Prefecture, Central Japan.] *Bulletin of the Mizunami Fossil Museum*, 1: 397–399 [in Japanese with English summary].
- Aoki, J. 1976. Oribatid mites from the IBP Study Area, Pasoh Forest Reserve, West Malaysia. *Nature and Life in Southeast Asia*, 7: 39–59.
- Aoki, J., Takaku, G. & Ito, F. 1994. Aribatidae, a new myrmecophilous oribatid mite family from Java. *International Journal of Acarology*, 20: 3–10.

- Arillo, A. & Subías, L.S. 2000. A new fossil oribatid mite, *Arachaeorchestes minguezae* n. gen. n. sp. from Spanish Lower Cretaceous amber. *Mitteilungen aus dem Geologisch-Paläontologischen Institut der Universität Hamburg*, 84: 231–236.
- Arillo, A. & Subías, L.S. 2002. Second fossil oribatid mite from the Spanish Lower Cretaceous amber. *Eupterotegaeus bitranslamellatus* n. sp. (Acariformes, Oribatida, Cepheidae). *Acarologia*, 42: 403–406.
- Arillo, A., Blagoderov, V. & Peñalver, E. 2018. Early Cretaceous parasitism in amber: A new species of *Burmazelmira* fly (Diptera: Archizelmiridae) parasitized by a *Leptus* sp. mite (Acari, Erythraeidae). *Cretaceous Research*, 86: 24–32.
- Arillo, A., Subías, L.S. & Sánchez-García, A. 2016. New species of fossil oribatid mites (Acariformes, Oribatida), from the Lower Cretaceous amber of Spain. *Cretaceous Research*, 63: 68–76.
- Arillo, A., Subías, L. S. & Shtanchaeva, U. 2008. A new fossil oribatid mite, *Ommatocepheus nortoni* sp. nov. (Acariformes, Oribatida, Cepheidae), from a new outcrop of Lower Cretaceous Álava amber (northern Spain). *Systematic and Applied Acarology*, 13: 252–255.
- Arillo, A., Subías, L. S. & Shtanchaeva, U. 2009. A new fossil species of oribatid mite, *Ametroproctus valeriae* sp. nov. (Acariformes, Oribatida, Ametroproctidae), from the Lower Cretaceous amber of San Just, Teruel Province, Spain. *Cretaceous Research*, 30: 322–324.
- Arillo, A., Subías, L.S. & Shtanchaeva, U. 2010. A new genus and species of oribatid mite, *Cretaceobodes martinezae* gen. et sp. nov. from the Lower Cretaceous amber of San Just (Teruel Province, Spain) (Acariformes, Oribatida, Otocepheidae). *Paleontological Journal*, 44: 287–290.
- Arillo, A., Subías, L.S. & Shtanchaeva, U. 2012. A new species of fossil oribatid mite (Acariformes, Oribatida, Thrypochthoniidae) from the Lower Cretaceous amber of San Just (Teruel Province, Spain). *Systematic & Applied Acarology*, 17: 106–112.
- Armas L. F. de & Teruel, R. 2002. Un género nuevo de Hubbardiidae (Arachnida: Schizomida) de las Antillas Mayores. *Revista Ibérica de Aracnología*, 6: 45–52.
- Atyeo, W. T. & Baker, E. W. 1964. Tarsocheylidae, a new family of prostigmatic mites (Acarina). *Bulletin of the University of Nebraska State Museum*, 4: 243–256.
- Atyeo W. T. & Gaud, J. 1979. Ptyssalgidae, a new family of analgoid feather mites (Acarina, Acaridida). *Journal of Medical Entomology*, 16: 306–308.
- Atyeo, W. T. & Peterson, P. C. 1972. The feather mite family Alloptidae Gaud, new status, I. The subfamilies Trouessartiinae Gaud and Thysanocercinae, new subfamily (Analgoidea). *Zoologischer Anzeiger*, 188: 56–60.
- Atyeo W. T., Baker, E. W. & Delfinado M. D. 1974. *Gaudiella minuta*, a new genus and species of mite (Acarina: Acaridida) belonging to the new family Gaudiellidae. *Journal of the Washington Academy of Sciences*, 64: 295–298.

- Audouin, V. 1826. Explication sommaire des planches d'araignées de l'Égypte et de la Syrie. *In Description de l'Égypte ou Recueil des Observations et des Recherches qui ont été Faites en Égypte Pendant l'Expédition de l'Armée Française, 1st edition, 1(4)*, 99–186. C. L. F. Panckoucke, Paris.
- Augusta, J. & Přebyl, A. 1951. O nalezu zbytku Eurypterida v ostravském karbonu. *Věstník Královské České Společnosti Nauk. Třída Matematicko-Přirodovědecká*, 1951(10): 1–11.
- Ausserer, A. 1867. Die Arachniden Tirols nach ihrer horizontalen und verticalen Verbreitung; 1. *Verhandlungen der Zoologisch-Botanischen Gesellschaft in Wien*, 17: 137–170.
- Ausserer, A. 1875. Zweiter Beitrag zur Kenntniss der Arachniden-Familie der Territelariae Thorell (Mygalidae Autor). *Verhandlungen der Zoologisch-Botanischen Gesellschaft in Wien*, 25: 125–206.
- Ayyildiz, N. & Luxton, M. 1989. Epimerellidae (Acari, Oribatida), a new mite family. *Journal of Natural History*, 23: 1381–1386.
- Badejo, M. A., Woas, S., & Beck, L. 2002. Description of six species of nothroid mites from Nigeria and Brazil (Acari: Oribatida: Nothroidea). *Genus*, 13: 505–548.
- Baily, W. H. 1863. Remarks on some Coal Measures Crustacea belonging to the genus *Belinurus*, König, with description of two new species from Queen's County, Ireland. *Annals and Magazine of Natural History*, 11: 107–114.
- Baily, W. H. 1869. On fossils obtained at Kiltorcan Quarry, Co. Kilkenny. *British Association Report*, pp. 73–75.
- Baker, E. W. 1949. Pomerantziidae, a new family of prostigmatic mites. *Journal of the Washington Academy of Science*, 39: 269–271.
- Baker, E. W. & Pritchard, A. E. 1953. The family categories of tetranychoid mites, with a review of the new families Linotetranidae and Tuckerellidae. *Annals of the Entomological Society of America*, 46: 243–258.
- Baker, E. W. & Wharton, G. W. 1952. *An introduction to Acarology*. Macmillan, New York, xiii +465 pp.
- Baldwin W. & Sutcliffe, W. H. 1904. *Eoscorpis sparthensis* n. sp. from the Middle Coal Measures of Lancashire. *Quarterly Journal of the Geological Society of London*, 60: 395–398.
- Balogh, J. 1958. Oribatides nouvelles de l'Afrique tropicale. *Revue Zoologie Botanique Africaines*, 58: 1–34.
- Balogh, J. 1968. New oribatids (Acari) from New Guinea. *Acta Zoologica Academiae Scientiarum Hungaricae*, 14: 259–285.
- Balogh, J. 1970. New oribatids (Acari) from New Guinea. II. *Acta Zoologica Academiae Scientiarum Hungaricae*, 16: 291–344.
- Balogh, J. 1972. *The oribatid genera of the world*. Akadémiai Kiadó, Budapest, 188 pp.
- Balogh, J. 1983. A partial revision of the Oppiidae Grandjean, 1954 (Acari: Oribatei). *Acta Zoologica Academiae Scientiarum Hungaricae*, 29: 1–79.
- Balogh, J. & Balogh, P. 1984. A review of the Oribatuloidea Thor, 1929 (Acari: Oribatei). *Acta Zoologica Hungarica*, 30: 257–313.

- Balogh, J. & Balogh, P. 1992. *The oribatid mites genera of the world. I.* Hungarian National Museum Press, 263 pp.
- Balzan, L. 1888. *Chernetidae Nonnullae Sud-Americanae, III.* Asuncion.
- Balzan, L. 1892. Voyage de M. E. Simon au Venezuela (Décembre 1887 – Avril 1888). Arachnides. Chernetes (Pseudoscorpiones). *Annales de la Société Entomologique de France*, 60: 497–552.
- Bamber, R. 2007. A holistic re-interpretation of the phylogeny of the Pycnogonida Latreille, 1810 (Arthropoda). *Zootaxa*, 1668: 295–312.
- Banks, N. 1892a. A new genus of Phalangiiidae. *Proceedings of the Entomological Society of Washington*, 2(2): 249–251.
- Banks, N. 1893. The Phalanginae of the United States. *The Canadian Entomologist*, 25: 205–211.
- Banks, N. 1895. Notes on the Pseudoscorpionida. *Journal of the New York Entomological Society*, 3: 1–13.
- Banks, N. 1896. New North American spiders and mites. *Transactions of the American Entomological Society*, 23: 57–77.
- Banks, N. 1905. Arachnids from the Cocos Island. *Proceedings of the Entomological Society of Washington*, 7: 20–23.
- Barbour, E. H. 1914. Carboniferous eurypterids of Nebraska. *American Journal of Science*, 4th Series, 38: 507–510.
- Bartel, C., Konikiewicz, M., Małkol, J., Wohltmann, A. & Dunlop, J. A. 2015. Smaridid mites in Baltic and Bitterfeld amber, with notes on the fossil record of terrestrial Parasitengona (Trombidiformes: Prostigmata). *Annales Zoologici*, 65: 641–659.
- Beecher, C. E. 1902. Note on a new xiphosuran from the Upper Devonian of Pennsylvania. *American Geologist*, 29, 143–146.
- Beecher, C. E. 1904. Note on a new Permian xiphosuran from Kansas. *American Journal of Science*, 4th Series, 17: 23–24.
- Beier, M. 1932a. Pseudoscorpionidea I. Subord. Chthoniinea et Neobisiinea. *Tierreich*, 57: i–xx, 1–258.
- Beier, M. 1932b. Pseudoscorpionidea II. Subord. C. Cheliferina. *Tierreich*, 58: i–xxi, 1–294.
- Beier, M. 1937. Pseudoscorpione aus dem baltischen Bernstein. *Festschrift zum 60. Geburtstag von Professor Dr. Embrik Strand, Riga*, 2: 302–316.
- Beier, M. 1947a. Pseudoskorpione im Baltischen Bernstein und die Untersuchung von Bernstein-Einschlüssen. *Mikroskopie, Wien*, 1: 188–199.
- Beier, M. 1947b. Zur Kenntnis der Pseudoscorpionidenfauna des südlichen Afrika, insbesondere der südwest und südafrikanischen Trockengebiet. *Eos, Madrid*, 23: 285–339.
- Beier, M. 1955. Pseudoscorpione im baltischen Bernstein aus dem Geologischen Staatsinstitut in Hamburg. *Mitteilungen aus dem Mineralogisch-Geologischen Staatsinstitut in Hamburg*, 25: 48–54.

- Beier, M. 1959. Zur Kenntnis der Pseudoscorpioniden-Fauna des Andengebiets. *Beiträge zur neotropischen Fauna*, 1: 185–228.
- Bell, W. A. 1922. A new genus of Characeae and new Merostomata from the Coal Measures of Nova Scotia. *Transactions of the Royal Society of Canada*, 4: 159–167.
- Bergström, J., Stürmer, W. & Winter, G. 1980. *Palaeoisopus*, *Palaeopantopus* and *Palaeothea*, pycnogonid arthropods from the Lower Devonian Hunsrück Slate, West Germany. *Paläontologische Zeitschrift*, 54: 7–54.
- Berland, L. 1913. Araignées. In *Mission du Service géographique de l'armée pour la mesure d'un arc du méridien équatorial en Amérique du Sud (1899-1906)*. Paris, 10: 78–119.
- Berland, L. 1939. Description de quelques Araignées fossiles. *Revue Française d'Entomologie*, 6: 1–9.
- Berlese, A. 1885. Acarorum Systematis. *Bollettino della Società Entomologica Italiana*, 17: 121–135.
- Berlese, A. 1888. Acari Austro-Americani quos collegit Aloysius Balzan. Manipulus primus. Species novas circiter quinquaginta complectens. *Bollettino della Società Entomologica Italiana*, 20: 171–222.
- Berlese, A. 1896. Acari, Myriapoda et Scorpiones hucusque in Italia reperta. *Acari, Myriapoda et Scorpiones in Italia reperta*, Fasc. 79, 15 pp., 6 pls
- Berlese, A. 1899. Gli acari agrarii. Puntat II. *Rivista di Patologia Vegetale, Padova*, 7: 312–344.
- Berlese, A. 1908. Elenco di generi e specie nuove di acari. *Redia*, 5: 1–15.
- Berlese, A. 1910. Lista di nuove specie e nuovi generi di Acari. *Redia*, 6: 242–271.
- Berlese, A. 1914. Acari nuovi. *Redia*, 10: 1–150.
- Berlese, A. 1923. Centuria sesta di Acari nuovi. *Redia*, 15: 237–262.
- Bernini, F. 1975. Notulae Oribatologicae XII. Una nuova specie di *Carabodes* affine a *C. minusculus* Berlese 1923 (Acarida, Oribatei). *Redia* 56: 455–471.
- Bernini, F., Carnevale, G., Bagnoli, G. & Stouge, S. 2002. An Early Ordovician oribatid mite (Acari: Oribatida) from the Island of Öland, Sweden. pp. 45–47. In Bernini et al. (eds) *Acarid Phylogeny and Evolution. Adaptations in Mites and Ticks*. Kluwer Academic Publishers, Dordrecht, xvii + 451 pp.
- Bertkau, P. 1872. Über die Respirationsorgane der Araneen. *Archiv für Naturgeschichte*, 38: 208–233.
- Bertkau, P. 1878a. Versuch einer natürlichen Anordnung der Spinnen, nebst Bemerkungen zu einzelnen Gattungen. *Archiv für Naturgeschichte*, 44: 351–410.
- Bertkau, P. 1878b. Einige Spinnen und ein Myriapode aus der Braunkohle von Rott. *Verhandlungen des Naturhistorischen Vereins der Preussischen Rheinlande und Westfalens, Bonn*, 35: 346–360.
- Bertkau, P. 1882. Ueber das Cribellum und Calamistrum. Ein Beitrag zur Histologie, Biologie und Systematik der Spinnen. *Archiv für Naturgeschichte*, 48: 316–362.
- Beyschlag, F. & Fritsch, K. von 1899. Das jüngere Steinkohlegebirge und das Rothliegende in der Provinz Sachsen und den angrenzenden Gebieten. *Abhandlungen der Königlich Preussischen geologischen Landesanstalt*, 10: 1–263.

- Blackwall, J. 1833. Characters of some undescribed genera and species of Araneidae. *London philosophical Magazine and Journal of Science*, 3: 104–112, 187–197, 344–352, 436–443.
- Blackwall, J. 1834a. Characters of some undescribed species of Araneidae. *London philosophical Magazine and Journal of Science*, 5: 50–53.
- Blackwall, J. 1834b. *Researches in Zoology*. London, pp. 229–433.
- Blackwall, J. 1841. The difference in the number of eyes with which spiders are provided proposed as the basis of their distribution into tribes; with descriptions of newly discovered species and the characters of a new family and three new genera of spiders. *Transactions of the Linnean Society, London*, 18: 601–670.
- Blackwall, J. 1853. Descriptions of some newly discovered species of Araneida. *Annals and Magazine of Natural History, series 2*, 11: 14–25.
- Blackwall, J. 1859. Descriptions of newly discovered spiders captured by James Yate Johnson Esq., in the island of Maderia. *Annals and Magazine of Natural History, series 3*, 4: 255–267.
- Blackwall, J. 1862. Descriptions of newly-discovered spiders from the island of Madeira. *Annals and Magazine of Natural History, series 3*, 9: 370–382.
- Blackwall, J. 1864. *A History of the Spiders of Great Britain and Ireland. Part II*. The Ray Society, London, 1864 pp. 175–384.
- Blackwall, J. 1870. Notes on a collection of spiders made in Sicily in the spring of 1868, by E. Perceval Wright, M.D., with a list of the species, and descriptions of some new species and of a new genus. *Annals and Magazine of Natural History, series 4*, 5: 392–405.
- Blanchard, E. 1852. Arachnides. In *L'organisation du règne animal, 2nd Edition, vol. 2*. E. Blanchard, Paris.
- Błaszak, J., Cokendolpher, J. C. & Polyak, V. J. 1995. *Paleozircon cavernicolous*, a new genus and new species of fossil mite from a cave in the southwestern U.S.A. (Acari, Gamasida: Zerconidae). *International Journal of Acarology*, 21: 253–259.
- Błażejowski, B., Niedźwiedzki, G., Boukhalfa, K. & Soussi, M. 2017. *Limulitella tejsraensis*, a new species of limulid (Chelicerata, Xiphosura) from the Middle Triassic of southern Tunisia (Saharan Platform). *Journal of Paleontology*, 91: 960–967.
- Bleicher, M. 1897. Sur la découverte d'une nouvelle espèce de limule dans les marnes irisées de Lorraine. *Bulletin de la Societe des Sciences de Nancy*, (2)14: 116-126.
- Bloch, M. [E.] 1776. Naturgeschichte des Kopals. *Beschäftigungen der Berlinischen Gesellschaft Naturforschender Freunde*, 2: 91–196.
- Bode, A. 1951. Ein Liassischer Skorpionide. *Palaeontologische Zeitschrift*, 24: 58–65.
- Bolland, H. R. & Magowski, W. Ł. 1990. *Neophyllobius succineus* n. sp. from Baltic amber (Acari: Raphignathoidea: Camerobiidae). *Entomologische Berichten*, 50: 17–21.
- Bosselaers, J. 2004. A new *Garacops* species from Madagascar copal (Araneae: Selenopidae). *Zootaxa*, 445: 1–7.

- Bosselaers, J., Dierick, M., Cnudde, V., Masschaele, B., Van Hoorebeke, L. & Jacobs, P. 2010. High resolution X-ray computed tomography of an extant new *Donuea* (Araneae: Liocranidae) species in Madagascan copal. *Zootaxa*, 2427: 25–35.
- Bottali, P. 1975. Note su due rari esemplari di Araneidi (Aracnidi) rinvenuti nei depositi diatomitici (facies lacustre) di Riano Flaminio (Roma). *Fragmenta entomologica*, 11: 169–174.
- Braddy, S. J., Aldridge, R. J. & Theron, J. N. 1995. A new eurypterid from the Late Ordovician Table Mountain Group, South Africa. *Palaeontology*, 38: 563–581.
- Braddy, S. J., Selden, P. A. & Doan Nhat T. 2002. A new carcosomatid eurypterid from the Upper Silurian of Northern Vietnam. *Palaeontology*, 45: 897–915.
- Bradley, W. H. 1931. Origin and microfossils of the oil shale of the Green River Formation. *United States Geological Survey, Professional Paper*, 168: 1–58.
- Brauckmann, C. 1982. Der Schwertschwanz *Euproops* (Xiphosurida, Limulina, Euproopacea) aus dem Oberkarbon des Piesbergs bei Osnabrück. *Osnabücker naturwissenschaftliche Mitteilungen*, 9: 17–26.
- Brauckmann, C. 1984. Eine neue Arachniden-Art aus dem Westfalium des Saargebietes (West-Deutschland). *Dortmunder Beiträge zur Landeskunde, naturwissenschaftliche Mitteilungen*, 18: 95–103.
- Brauckmann, C. 1987. Neue Arachniden (Ricinuleida, Trigonotarbida) aus dem Namurium B von Hagen-Vorhalle (Ober-Karbon; West-Deutschland). *Dortmunder Beiträge der Landeskunde, naturwissenschaftliche Mitteilungen*, 21: 97–109.
- Brauckmann, C. & Koch, L. 1983. *Prothelyphonus naufragus* n. sp., ein neuer Geisselskorpion [Arachnida: Thelyphonida: Thelyphonidae] aus dem Namurium unteres Oberkarbon) von West-Deutschland. *Entomologica Germanica*, 9: 63–74.
- Brauckmann, C., Koch, L. & Kemper, M. 1985. Spinnentiere (Arachnida) und Insekten aus den Vorhalle-Schichten (Namurian B; Ober-Karbon) von Hagen-Vorhalle (West-Deutschland). *Geologie und Paläontologie in Westfalen*, 3: 1–131.
- Brauer, F., Redtenbacher, J. & Ganglbauer, L. 1889. Fossile Insekten aus der Juraformation Ost-Siberiens. *Mémoires de l'Académie Impériale des Sciences de St.-Petersbourg, VII serie*, 36(15): 1–22.
- Braun, C. F. W. 1860. Die Thiere in den Pflanzenschifern der Gegend von Bayreuth. Programm zum Jahresbericht der Königl. Kreis-Landwirtschafts- und Gewerbschule zu Bayreuth für das Schuljahr 1859/60. *Jahresbericht von der Königl. Kreis-Landwirtschafts- und Gewerbschule zu Bayreuth für das Schuljahr 1859/60*: 11 pp.
- Brescovit, A. D. 1997. Revisão de Anyphaeninae Bertkau a nível de gêneros na região neotropical (Araneae, Anyphaenidae). *Revista Brasileira de Zoologia*, 13: 1–187.
- Briggs, D. E. G. & Collins, D. 1988. A Middle Cambrian chelicerate from Mount Stephen, British Columbia. *Palaeontology*, 31: 779–798.

- Briggs, D. E. G., Siveter, D. J., Siveter, D. J., Sutton, M. D., Garwood, R. J. & Legg, D. 2012. Silurian horseshoe crab illuminates the evolution of arthropod limbs. *Proceedings of the National Academy of Sciences of the United States of America*, 109: 15702–15703.
- Briggs, T. A. 1971. Relict harvestmen from the Pacific northwest (Opiliones). *Pan-Pacific Entomologist*, 74: 165–178.
- Bristowe, W. S. 1938. The classification of spiders. *Proceedings of the Zoological Society of London*, 108: 285–322.
- Bristowe, W. S. 1939. *The comity of spiders. Volume 1*. London, 228 pp.
- Brongniart, C. 1877. Note sur une Aranéide fossile des terrains tertiaires. *Annales de la Société Entomologique de France*, (5) 7: 221–224.
- Bruce, W. A. & Johnston, D. E. 1976. *Gaudoglyphus* n. gen., based on *Analges minor* Nörner (Acari: Gaudoglyphidae n. fam.). *International Journal of Acarology*, 2: 29–33.
- Broili, F. 1928. Crustaceenfunde aus dem rheinischen Unterdevon. I. Über Extremitätenreste. *Sitzungsberichte der Bayerischen Akademie der Wissenschaften, Mathematisch-naturwissenschaftliche Abteilung*, 1928: 197–201.
- Broili, F. 1930. Über ein neues Exemplar von *Palaeopantopus*. *Sitzungsberichte der Bayerischen Akademie der Wissenschaften, Mathematisch-naturwissenschaftliche Abteilung*, 1930: 209–214.
- Bromley, R.G. 1981. Concepts in ichnotaxonomy illustrated by small round holes in shells. *Acta Geològica Hispànica*, 16: 55–64.
- Bronn, H. G. 1856. *Lethaea Geognostica oder Abbildung und Beschreibung für die Gebirgs-Formationen bezeichnendsten Versteinerungen. Dritter Band*. Schweizerbart'sche Verlagshandlung und Druckerei 1853–1856, pp. 622–639.
- Buckland, W. 1837. *The Bridgewater treatises on the power, wisdom and goodness of God as manifested in the creation. Treatise IV. Geology and mineralogy with reference to natural theology. 2nd Edition*. William Pickering, London.
- Bulanova-Zachvatkina, E. M. 1974. [New genera of oribatid mites from the Upper Cretaceous of Tajmyr.] *Paleontological Journal*, 1974: 141–144. [In Russian]
- Burmeister, H. 1843. *Die Organisation der Trilobiten, aus ihren lebenden Verwandten entwickelt; nebst systematischen Uebersicht aller zeither beschrieben Arten*. G. Reimer, Berlin, 148 pp.
- Cambridge, F. O. P.- 1893. Handbook to the study of British spiders (Drassidae and Agalenidae). *British Nature Supplement*, 3: 117–170.
- Cambridge, F. O. P.- 1899. Arachnida. Araneida. Vol. 2. *Biologia Centrali-Americana*: pp. 41–88.
- Cambridge, O. P.- 1870. Descriptions and sketches of two new species of Araneida, with characters of a new genus. *Journal of the Linnean Society of London*, 10: 398–405.
- Cambridge, O. P.- 1871. Arachnida (1870). *The Zoological Record*, 7: 207–224.

- Cambridge, O. P.- 1873. On some new genera and species of Araneida. *Proceedings of the Zoological Society of London*, 1873: 112–129.
- Cambridge, O. P.- 1874. On some new genera and species of Araneida. *Annals and Magazine of Natural History, series 4*, 14: 169–183.
- Cambridge, O. P.- 1876. On a new order and some new genera of Arachnida from Kerguelen's Land. *Proceedings of the Zoological Society of London*, 1876: 258–265.
- Cambridge, O. P.- 1877. On some new species of Araneida, with characters of two new genera and remarks on the families Podophthalmides and Dinopides. *Proceedings of the Zoological Society of London*, 1877: 557–578.
- Cambridge, O. P.- 1879a. On some new and rare spiders from New Zealand, with characters of four new genera. *Proceedings of the Zoological Society of London*, 1879: 681–703.
- Cambridge, O. P.- 1879b. On some new and rare British spiders, with characters of a new genus. *Annals and Magazine of Natural History*, 4: 190–215.
- Cambridge, O. P.- 1881. On some new genera and species of Araneidea. *Proceedings of the Zoological Society of London*, 1881: 765–775.
- Cambridge, O. P.- 1882a. On new genera and species of Araneidea. *Proceedings of the Zoological Society of London*, 1882: 423–442.
- Cambridge, O. P.- 1882b. Arachnida (1881). *The Zoological Record*, 18: 1–32.
- Cambridge, O. P.- 1894. Arachnida. Araneida. Vol. 1. *Biologia Centrali-Americana*: pp. 121–144.
- Cambridge, O. P.- 1895. Arachnida. Araneida. Vol. 1. *Biologia Centrali-Americana*: pp. 145–160.
- Cambridge, O. P.- 1898. Arachnida. Araneida. Vol. 1. *Biologia Centrali-Americana*: pp. 233–288.
- Cambridge, O. P.- 1902. On new and rare British Arachnida. *Proceedings of the Dorset Natural History and Antiquarian Field Club*, 23: 16–40.
- Camin, J. H. 1955. Uropodellidae, a new family of mesostigmatid mites based on *Uropodella laciniata* Berlese, 1888 (Acarina, Liroaspinga). *Bulletin of the Chicago Academy of Sciences*, 10, 65–81.
- Camin, J. H. & Gorirossi, F. E. 1955. A revision of the suborder Mesostigmata (Acarina), based on new interpretations of comparative morphological data. *Chicago Academy of Sciences Special Publication*, 11: 1–70.
- Camin J. H., Moss W. W. & Oliver J. H. 1967. Cloacaridae, a new family of cheyletoid mites from the cloaca of aquatic turtles. *Journal of Medical Entomology*, 4: 261–272.
- Campos, D. R. B. 1986. Primeiro registro fóssil de Scorpionoidea na Chapada do Araripe (Cretáceo Inferior), Brasil. *Anais do Academia Brasileira das Ciências*, 58: 135–137.
- Canestrini, G. & Fanzago, F. 1877. Intorno agli Acari italiani. - Atti del R. Istituto Veneto Scienze, Lettere ed Arti, Ser. 5 4: 69–208.

- Canestrini, G. & Pavesi, P. 1870. Catalogo sistematico degli Araneida italiani. *Archivio per la zoologia, l'anatomia e la fisiologia*, (2)2: 1–44.
- Caporiacco, L. di 1949. Aracnidi della colonia de Kenya raccolti da Toschi e Meneghetti negli anni 1944–1946. *Commentationes Pontificiae Academiae Scientiarum*, 13: 309–492.
- Carvalho, M. P. G. de & Lourenço, W. R. 2001. A new family of fossil scorpions from the Early Cretaceous of Brazil. *Comptes Rendus de l'Académie de Sciences de Paris, Earth and Planetary Sciences*, 332: 711–716.
- Caster, K. E. & Brooks, H. K. 1956. New fossils from the Canadian–Chazan (Ordovician) hiatus in Tennessee. *Bulletins of American Palaeontology*, 36: 157–199.
- Caster, K. E. & Kjellesvig-Waering, E. N. 1953. *Melbournopterus*, a new Silurian eurypterid from Australia. *Journal of Paleontology*, 27: 153–156.
- Caster, K. E. & Kjellesvig-Waering, E. N. 1955. *Marsupipterus*, an unusual eurypterid from the Downtonian of England. *Journal of Paleontology*, 29: 1040–1041.
- Caster, K. E. & Kjellesvig-Waering, E. N. 1956. Some notes on the genus *Dolichopterus* Hall. *Journal of Paleontology*, 30: 19–28.
- Caster K. E. & Kjellesvig-Waering, E. N. 1964. Upper Ordovician eurypterids of Ohio. *Palaeontographica Americana*, 4 (32): 297–358.
- Chamberlin, J. C. 1923a. The genus *Pseudogarypus* Ellingsen (Pseudoscorpionida – Feallidae). *Entomological News*, 34: 146–149, 161–166.
- Chamberlin, J. C. 1923b. New and little known pseudoscorpions, principally from the islands and the adjacent shores of the Gulf of California. *Proceedings of the California Academy of Science*, (4)12: 353–387.
- Chamberlin, J. C. 1929. A synoptic classification of the false scorpions or chela-spinners, with a report on a cosmopolitan collection of the same. Part I. The Heterosphyronida (Chthoniidae) (Arachnida-Chelonethida). *Annals and Magazine of Natural History, series 10*, 4: 50–80.
- Chamberlin, J. C. 1930. A synoptic classification of the false scorpions or chela-spinners, with a report on a cosmopolitan collection of the same. Part II. The Diplosphyronida (Arachnida-Chelonethida). *Annals and Magazine of Natural History, series 10*, 5: 1–48, 585–620.
- Chamberlin, J. C. 1931a. The arachnid order Chelonethida. *Stanford University Publications, Biological Sciences*, 7: 1–284.
- Chamberlin, J. C. 1931b. A synoptic revision of the generic classification of the chelonethid family Cheliferidae Simon (Arachnida). *Canadian Entomologist*, 64: 289–294.
- Chamberlin, J. C. 1947. The Vachoniidae – a new family of false scorpions represented by two new species from caves in Yucatan (Arachnida, Chelonethida, Neobisioidea). *Bulletin of the University of Utah, Biological Series*, 10(4): 1–15.

- Chamberlin, R. V. 1917. New spiders of the family Aviculariidae. *Bulletin of the Museum of Comparative Zoology*, 61: 25–75.
- Chamberlin, R. V. 1922. Two new American arachnids of the order Pedipalpida. *Proceedings of the Biological Society of Washington*, 235: 11–12.
- Chamberlin, R. V. & Ivie, W. 1943. New genera and species of North American linyphiid spiders. *Bulletin of the University of Utah*, 33(10): 1–39.
- Chamberlin, R. V. & Mulaik, S. 1942. On a new family in the Notostigmata. *Proceedings of the Biological Society of Washington*, 55: 125–132.
- Chang A.-c. 1957. On the discovery of the Wenlockian *Eurypterus*-fauna from south China. *Acta Palaeontologica Sinica*, 5: 446–450.
- Chang J.-p. 2004. Some new species of spider and Sacculinidae fossils in Jehol biota. *Global Geology*, 23: 313–320.
- Chapman, F. 1932. Two new Australian fossil king-crabs. *Proceedings of the Royal Society of Victoria, New Series*, 44: 100–102.
- Charbonnier, S., Vannier, J. & Riou, B. 2007. New sea spiders from the Jurassic La Voulte-sur-Rhône Lagerstätte. *Proceedings of the Royal Society B*, 274: 2555–2561.
- Cheng X.-d., Meng Q.-j., Wang X.-r. & Gao C.-l. 2008. [New discovery of Nephilidae in Jehol biota (Araneae, Nephilidae).] *Acta zootaxonomica Sinica*, 33: 330–334. [in Chinese with English summary]
- Cheng X.-d., Shen C.-z. & Gao C.-l. 2009. [A new fossil spider of the Philodromidae from the Yixian Formation of western Liaoning Province, China (Arachnida, Araneae).] *Acta Arachnologica Sinica*, 18: 23–27. [in Chinese with English summary]
- Chernyshev, B. I. 1928. Nouvelles donnees sur les Xiphosura du basin Donetz. *Bulletin du Comité Géologique*, 47: 519–531.
- Chernyshev, B. I. 1933. [Arthropoda from the Urals and other regions of the USSR.] *Materials of the Central Scientific and Prospecting Institute Paleontology and Stratigraphy, Magazine*, 1: 15–25. [in Russian with English summary]
- Chernyshev, B. I. 1948. New representative of Merostomata from the Lower Carboniferous. *State of Kiev, Geological Collections*, 2: 119–130.
- Chitimia-Dobler, L., de Araujo, B. C., Ruthensteiner, B., Pfeffer, T. & Dunlop, J. A. 2017. *Amblyomma birmitum* a new species of hard tick in Burmese amber. *Parasitology*.
- Chlupáč, I. 1994. Pterygotid eurypterids (Arthropoda, Chelicerata) in the Silurian and Devonian of Bohemia. *Journal of the Czech Geological Society*, 39: 147–162.
- Chlupáč, I. 1995. Lower Cambrian arthropods from the Paseky Shale (Barrandian area, Czech Republic). *Journal of the Czech Geological Society*, 40: 9–36.

- Chlupáč, I. & Havlíček, V. 1965. *Kodymirus* n. g., a new aglaspid merostome of the Cambrian of Bohemia. *Sborník Geologických Věd. Paleontologie*, 6: 7–20.
- Ciurca Jr., S. J. & Tetlie, O. E. 2007. Pterygotids (Chelicerata; Eurypterida) from the Silurian Vernon Formation of New York. *Journal of Paleontology*, 81: 725–736.
- Clarke, J. M. 1902. Notes on Paleozoic crustaceans. *New York State Museum Report*, 54: 83–110.
- Clarke, J. M. 1907. The *Eurypterus* shales of the Shawangunk Mountains in Eastern New York. *New York State Museum Bulletin* 107: p. 295.
- Clarke, J. N. & Ruedemann, R. 1912. The Eurypterida of New York. – *New York State Museum, Memoir*, 14, 1–439.
- Clarke, J. M. 1919. *Bunaia woodwardi*, a new merostome from the Silurian waterlimes of New York. *Geological Magazine, Decade 6*, 6: 531–532.
- Claypole, E. W. 1890a. Palaeontological notes from Indianapolis (A. A. A. S.) *Pterichthys* – *Castoroides* – *Eurysoma* g. n. *American Geologist*, 6: 255–260.
- Claypole, E. W. 1890b. *Carcinosoma newlini*. *American Geologist*, 6: 400.
- Clerck, C. 1757. *Araneae suecici, descriptionibus et figuris oeneis illustrati, ad genera subalterna redacti speciebus ultra LX determinati. Svenska Spindlar, uti sina hufvud-slagter indelte samt...* - Stockholm, 154 pp.
- Cockerell, T. D. A. 1905. Two Carboniferous genera of xiphosurans. *American Geologist*, 36: 330.
- Cockerell, T. D. A. 1907. Some fossil arthropods from Florissant, Colorado. *Bulletin of the American Museum of Natural History*, 23: 605–616.
- Cockerell, T. D. A. 1916. The uropods of *Acanthotelson stimpsoni*. *Journal of the Washington Academy of Science*, 6: 234–236.
- Cockerell, T. D. A. 1917a. Arthropods in Burmese amber. *American Journal of Science, series 4*, 44: 360–368.
- Cockerell, T. D. A. 1917b. Arthropods in Burmese amber. *Psyche*, 24: 40–45.
- Cockerell, T. D. A. 1920. Fossil arthropods in the British Museum. I. *Annals and Magazine of Natural History, series 9*, 5: 273–279.
- Cockerell, T. D. A. 1925. Fossil insects in the United States National Museum. *Proceedings of the U. S. National Museum*, 64: 1–15.
- Coddington, J. 1986. The genera of the spider family Theridiosomatidae. *Smithsonian Contributions to Zoology*, 422: 1–96.
- Coineau, Y. 1974. Un type nouveau d'Acariens Prostigmates libres: les Saxidromoidea, nouvelle super-famille. *Comptes rendus de l'Académie des Sciences, Paris série D*, 278: 1059–1062.
- Coineau, Y. & Magowski, W. Ł. 1994. Caeculidae in amber. *Acarologia*, 35: 243–246.
- Coineau, Y. & Poinar Jr., G. O. 2001. Un Caeculidae de l'ambre de la République Dominicaine. *Acarologia*, 41: 141–144.

- Coineau, Y & Theron, P. 1983. Les Microsammidae, n. fam. d'Acariens Endeostigmata des sables fin. *Acarologia*, 24: 275–280.
- Cokendolpher, J. C. 1987. A new species of fossil *Pellobunus* from Dominican Republic amber (Arachnida: Opiliones: Phalangodidae). *Caribbean Journal of Science*, 22: 205–211.
- Cokendolpher, J. C. & Poinar Jr., G. O. 1992. Tertiary harvestmen from Dominican Republic amber (Arachnida: Opiliones: Phalangodidae). *Bulletin of the British arachnological Society*, 9: 53–56.
- Cokendolpher, J. C. & Poinar Jr., G. O. 1998. A new fossil harvestman from Dominican Republic amber (Opiliones, Samoidae, *Hummelinckiolus*). *Journal of Arachnology*, 26: 9–13.
- Comstock, J. H. 1940. *The spider book, revised and edited by Willis J. Gertsch*. Ithaca, New York, 729 pp.
- Condé, B. 1996. Les Palpigrales, 1885–1995: acquisitions et lacunes. *Revue suisse de Zoologie*, hors série 1: 87–106.
- Cook, D. R. 1963. Omartacaridae, a new family of water mites from the ground waters of North America. *Entomological News*, 74: 37–43.
- Cook, D.R. 1967. Water mites from India. *Memoirs of the American Entomological Institute*, 9: 1–411.
- Cooke, J. A. L. 1965. Spider genus *Dysdera* (Araneae, Dysderidae). *Nature*, 205: 1027–1028.
- Conrad, A. J. C. 1835. Ueber den in der Steinkohlenformation bei Cholme gefundenen fossilen Scorpion. *Verhandlungen der Gesellschaft des vaterländischen Museums in Böhmen, Prag*. 36.
- Conrad, A. J. C. 1839. Ueber eine fossile Gattung der Afterscorpione. *Verhandlungen der Gesellschaft des vaterländischen Museums in Böhmen, Prag*: 14–18.
- Corronca, J. A. 2003. New genus and species of Selenopidae (Arachnida, Araneae) from Madagascar and neighbouring islands. *African Zoology*, 38: 387–392.
- Crônier, C. & Courville, P. 2005. New xiphosuran merostomata from the Upper Carboniferous of the Graissessac Basin (Massif Central, France). *Comptes Rendus Palevol*, 4: 123–133.
- Crosby, C. R. & Bishop, S. C. 1925. A new genus and two new species of spiders collected by *Bufo quercicus* (Holbrook). *Florida Entomologist* 9: 33–36.
- Cross, E. A. 1965. The generic relationships of the family Pyemotidae (Acarina: Trombidiformes). *Kansas University Science Bulletin*, 45: 29–275.
- Cunliffe, F. 1957. Notes on the Anystidae with a description of a new genus and species *Adamystis donnae*, and a new subfamily Adamystinae (Acarina). *Proceedings of the Entomological Society of Washington*, 59: 172–175.
- Cunliffe, F. 1958. *Pyroglyphus morlani*, a new genus and species of mite forming a new family, Pyroglyphidae, in the Acaridiae. *Proceedings of the Entomological Society of Washington*, 60: 85–86.
- Currie, L. D. 1927. On *Cyamocephalus*, a new synziphosuran from the Upper Silurian of Lesmahagow, Lanarkshire. *Geological Magazine*, 64: 153–157.

- Cutler, B. 1970. A fossil crab spider from West-ventral Wyoming (Araneae: Thomisidae). *Entomological News*, 81: 38–40.
- Daber, R. 1990. Arachnidenrest aus dem Westfal D von Zwickau-Oelsnitz. *Zeitschrift für geologische Wissenschaft, Berlin*, 18: 679–682.
- Dabert, J. 1994. Kiwilichidae fam. nov. eine neue Federfamilie (Astigmata, Pterolichoidea). *Entomologische Mitteilungen aus dem Zoologischen Museum Hamburg*, 11: 101–110.
- Daday, E. 1889. A Magyar nemzeti Muzeum àlskorpionak áttekintése. *Természetrázi Füzetek*, 11: 111–136, 165–192.
- Dahl, F. 1908. Die Lycosiden oder Wolfsspinnen Deutschlands und ihre Stellung im Haushalt der Natur. Nach statistischen Untersuchungen dargestellt. *Nova Acta Academiae Caesareae Leopoldino-Carolinae*, 88: 175–678.
- Dahl, F. 1912. Arachnoidea. In Korschelt, E. et al. (eds). *Handwörterbuch der Naturwissenschaften*, 1: 485–514.
- Dahl, F. 1913. *Vergleichende Physiologie und Morphologie der Spinnentiere unter besonderer Berücksichtigung der Lebensweise. 1. Die Beziehungen des Körperbaues und der Farben zur Umgebung*. Jena, 1913: 113 pp.
- Dalgleish, R. C., Palma, R. L., Price R. D. and Smith, V. S. 2006. Fossil lice (Insecta: Phthiraptera) reconsidered. *Systematic Entomology*, 31: 648–651.
- Dalla Vecchia, F. M. & Selden, P. A. 2013. A Triassic spider from Italy. *Acta Palaeontologica Polonica*, 58: 325–330.
- Dalman, J. W. 1826. Om Insekter inneslutne I Copal, jemte beskrifning på några deribland förekommande nya släkten och arter. *Kungliga Svenska Vetenskapsakademiens Handlingar*, 46: 375–410.
- Dalmas, R. de 1916. Révision du genre *Orchestina* E.S., suivie de la description de nouvelles espèces du genre *Oonops* et d'une étude sur les Dictynidae su genre *Scotolathys*. *Annales de la Société Entomologique de France*, 85: 203–258.
- Dalmas, R. de 1917. Araignées de Nouvelle Zélande. *Annales de la Société Entomologique de France*, 86: 317–430.
- Dammann, M. 2017. *Permomatveevia perneri* nov. gen. n. sp., an Early Permian scorpion from Russian Angara-Land. pp. 102–104. In Wachtler M. & Perner, T. (eds) *Early Permian Origin and Evolution of Angiosperms – The Flowering of Angara-Land*. Dolomythos Museum, Innichen, South Tyrol, Italy and Oregon Institute of Geological Research, Portland.
- Dana, J. D. 1853. Crustacea, pt. II, Arachnopoda or Pycnogonida. In United States Exploring Expedition during the years 1838, 1839, 1840, 1841, 1842. Under the command of Chales Wilkes, U.S.N.C. Sherman, Philadelphia, 1382–1391.

- Dashdamirov, S. 2008. A new species of false scorpion from Baltic amber with a redescription of *Electrochelifer balticus* Beier, 1955 and remarks on some fossil Cheliferidae (Arachnida: Chelonethida). *Acta Biologica Benrodis*, 14: 1–13.
- Davies, V. T. 1978. A new family of spiders (Araneae: Teemanaaridae). *Symposium of the Zoological Society of London*, 42: 293–302.
- Davies, V. T. 1980. *Malkara loricata*, a new spider (Araneidae: Malkarinae) from Australia. *Verhandlungen des 8. Internationalen Arachnologen-Kongresses. Wien, 1980*: 377–382.
- Deeleman-Reinhold, C. L. 1995. The Ochyroceratidae of the Indo-Pacific region (Araneae). *Raffles Bulletin of Zoology Supplement*, 2: 1–103.
- Delle, N. 1937. Zemgales lidzenuma, Augszemes un Lietuvas devona nogulumu. *Acta Universitatis Latviensis, Matēmatikas un Dabas Zinātņu Fakultātes Serija* 2(5): 105–384.
- De Geer, C. 1778. *Mémoires pour Servir à l'Histoire des Insectes, vol. 7*. Stockholm.
- De Kay, J. E. 1825. Observations on a fossil crustaceous animal of the order Branchiopoda. *Annals of the New York Lyceum of Natural History*, 1: 375–377.
- Delfinado, M. D. & Baker, E. W. 1974. Varroidae, a new family of mites on honeybees (Mesostigmata: Acarina). *Journal of the Washington Academy of Science*, 64: 4–10.
- De Lima, W. 1890. Note sur un nouvel *Eurypterus* du Rothliegendes de Bussaco. *Comunicações da Comissão dos Trabalhos Geológicos da Portugal*, 2: 153–157.
- Desmarest, A.-G. 1822. Les crustacés proprement dits. 66–154. *In Histoire naturelle des crustacés fossiles, sous les rapports zoologiques et géologiques*. F.-G. Levrault, Paris, Strasbourg, xx pp.
- Diener, C. 1924. Euryptera. *In Diener, C. (ed.). Fossilium Catalogus I : Animalia*. W. Junk, Berlin, pp. 1–26.
- Dix, E. & Pringle, J. 1929. On the fossil Xiphosura from the South Wales Coalfield with a note on the myriapod *Euphoberia*. *Summary of Progress, Geological Survey of Great Britain*, 1928: 90–113.
- Dix, E. & Pringle, J. 1930. Some Coal Measures arthropods from the South Wales Coalfield. *Annals and Magazine of Natural History*, 6: 136–144.
- Dohrn, A. 1881. Die Pantopoden des Golfes von Neapel und der angrenzenden Meeresabschnitte. *Monographie der Fauna und Flora des Golfes von Neapel*, 3: 1–252.
- Doleschall, L. 1852. Systematisches Verzeichnis der im Kaiserthum Österreich vorkommenden Spinnen. *Sitzungsberichte der Mathematisch-Naturwissenschaftlichen Classe der Kaiserlichen Akademie der Wissenschaft*, 9: 622–651.
- Donnadieu, A. L. 1875. *Recherches pour servir à l'histoire des Tetranyques*. – These. Faculte des Sciences de Lyon: 134 pp. [Thesis also published in a regular journal in 1876.]
- Dresco, E. 1970. Recherches sur la variabilité et la phylogénie chez les Opiliones du genre *Ischyropsalis* C. L. Koch (Fam. Ischyropsalidae), avec la creation de la famille nouvelle des Sabaconidae. *Bulletin du Muséum National d'Histoire Naturelle, 2^e Serie*, 41: 1200–1213.

- Dubey, D. P. 1985. A preliminary note on the eurypterid and trilobitid remains from the Upper Vidhyan rocks around Rewa, Madhya Pradesh. *Current Trends in Geology (IV Indian Geological Congress)*, 6: 63–78.
- Dubinin, V. B. 1953. Feather mites (Analgesoidea). II Families Epidermoptidae and Freyanidae. *Fauna SSSR. Paukoobraznye* 6 (6): 3–411. [In Russian].
- Dubinin, V. B. 1957. On the orientation of the cephalic end of the Devonian pycnogonids of the genus *Palaeoisopus* and their systematic position in the Arthropoda. *Doklady Akademii Nauk SSSR*, 117: 881–884. [In Russian].
- Dufour, L. 1820. Description de cinq Arachnides nouvelles. *Annales générales des sciences physiques*, 5: 198–209.
- Dugès, A. 1834. Recherches sur l'ordre des Acariens et la famille des Trombidés en particulier. *Annales des Sciences Naturelles, Zoologie, série 2*, 1: 5–46.
- Dujardin, F. 1851. Sur des acariens à quatre pieds, parasites des végétaux et qui doivent former un genre particulier (*Phytoptus*). In *Observations Zoologiques. Annales des Sciences Naturelles, série 3*, 15: 158–175.
- Dunbar, C. O. 1923. Kansas Permian insects, Part 2. *Paleolimulus*, a new genus of Paleozoic Xiphosura, with notes on other genera. *American Journal of Science, 5th series*, 5: 443–454.
- Dunbar, C. O. 1924. Kansas Permian insects. Part 1. The geologic occurrence and the environment of the insects. *American Journal of Science, 5th series*, 7: 171–209.
- Dunlop, J. A. 1995. Redescription of the Pennsylvanian trigonotarbid arachnid *Lissomartus* Petrunkevitch 1949 from Mazon Creek, Illinois. *Journal of Arachnology*, 23: 118–124.
- Dunlop, J. A. 1996. A trigonotarbid arachnid from the Upper Silurian of Shropshire. *Palaeontology*, 39: 605–614.
- Dunlop, J. A. 1998. A fossil whipscorpion from the Lower Cretaceous of Brazil. *Journal of Arachnology*, 26: 291–295.
- Dunlop, J. A. 1999. A replacement name for the trigonotarbid arachnid *Eotarbus* Dunlop. *Palaeontology*, 42: 191.
- Dunlop, J. A. 2002. Arthropods from the Lower Devonian Severnya Zemlya Formation of October Revolution Island, Russia. *Geodiversitas*, 24: 349–379.
- Dunlop, J. A. 2004. A spiny harvestman (Arachnida: Opiliones) from the Upper Carboniferous of Missouri, USA. In Logunov, D. V. & Penney, D (eds). Proceedings of the 21st European Colloquium of Arachnology, St.-Petersburg, 4–9 August 2003. *Arthropoda Selecta*, Special Issue No. 1: 67–74.
- Dunlop, J. A. 2007. A large parasitengonid mite (Acari, Erythraeoidea) from the Early Cretaceous Crato Formation of Brazil. *Fossil Record*, 10: 91–98.
- Dunlop, J. A. 2018. Systematics of the Coal Measures whip spiders (Arachnida: Amblypygi). *Zoologischer Anzeiger*, 273: 14–22.
- Dunlop, J. A. & Anderson, L. I. 2005. A fossil harvestman (Arachnida, Opiliones) from the Mississippian of East Kirkton, Scotland. *Journal of Arachnology*, 33: 482–489.

- Dunlop, J. A. & Bernardi, L. F. de O. 2014. An opilioacarid mite in Cretaceous Burmese amber. *Naturwissenschaften*, 101: 759–763.
- Dunlop, J. A. & Bertrand, M. 2011. Fossil labidostomatid mites (Prostigmata: Labidostommatidae) from Baltic amber. *Acarologia*, 51: 191–198.
- Dunlop, J. A. & Braddy, S. J. 2011. *Cteniza bavincourti* and the nomenclature of arachnid related trace fossils. *The Journal of Arachnology*, 39: 250–257.
- Dunlop, J. A. & Brauckmann, C. 2006. A new trigonotarbid from the Coal Measures of Hagen Vorhalle, Germany. *Fossil Record*, 9: 130–136.
- Dunlop, J. A. & Falkenhagen, R. 2014. Raubmilbe in Aragonit. *Fossilien*, 2014(3): 53–55.
- Dunlop, J. A. & Giribet, G. 2003. The first fossil cyphophthalmid (Arachnida, Opiliones) from Bitterfeld amber, Germany. *The Journal of Arachnology*, 31: 371–378.
- Dunlop, J. A. & Horrocks, C. A. 1996. A new Upper Carboniferous whip scorpion (Arachnida: Uropygi: Thelyphonida) with a revision of the British Carboniferous Uropygi. *Zoologischer Anzeiger*, 234: 293–306.
- Dunlop, J. A. & Horrocks, C. A. 1997. Phalangiotarbid arachnids from the Coal Measures of Lancashire, UK. *Geological Magazine*, 134: 369–381.
- Dunlop, J. A. & Jekel, D. 2009. Nomenclatural notes on fossil spiders. *Bulletin of the British arachnological Society*, 14: 357–360.
- Dunlop, J. A. & Martill, D. M. 2002. The first whipspider (Arachnida: Amblypygi) and three new whipscorpions (Arachnida: Thelyphonida) from the Lower Cretaceous Crato Formation of Brazil. *Transactions of the Royal Society of Edinburgh, Earth Sciences*, 92: 325–334.
- Dunlop, J. A. & Mammitzsch, L. 2010. A new genus and species of harvestman from Baltic amber. *Palaeodiversity*, 3: 23–32.
- Dunlop, J. A. & Mitov, P. G. 2009. Fossil harvestmen (Arachnida, Opiliones) from Bitterfeld amber. *ZooKeys*, 16: 347–375.
- Dunlop, J. A. & Mitov, P. G. 2011. The first fossil cyphophthalmid harvestman from Baltic amber. *Arachnologische Mitteilungen*, 40: 47–54.
- Dunlop, J. A. & Penney, D. 2012. *Fossil arachnids*. Siri Scientific Press, Manchester, 192 pp.
- Dunlop, J. A. & Poschmann, M. 1997. On the Emsian (Lower Devonian) arthropods of the Rhenish Schiefergebirge: 1. *Xenarachne*, an enigmatic arachnid from Willwerath, Germany. *Paläontologische Zeitschrift*, 71: 231–236.
- Dunlop, J. A. & Rößler, R. 2003. An enigmatic, solifuge-like fossil arachnid from the Lower Carboniferous of Kamienna Góra (Intra-Sudetic Basin), Poland. *Paläontologische Zeitschrift*, 77: 389–400.
- Dunlop, J. A. & Rößler, R. 2013. The youngest trigonotarbid *Permotarbus schuberti* n. gen., n. sp. from the Permian Petrified Forest of Chemnitz in Germany. *Fossil Record*, 16: 229–243.

- Dunlop, J. A. & Selden, P. A. 2004. A trigonotarbid arachnid from the Lower Devonian of Tredomen, Wales. *Palaeontology*, 47: 1469–1476.
- Dunlop, J. A. & Selden, P. A. 2013. Scorpion fragments from the Silurian of Powys, Wales. *Arachnology*, 16: 27–32.
- Dunlop, J. A., Anderson, L. I. & Braddy, S. J. 1999. A new chasmataspid (Chelicerata: Chasmataspida) from the Lower Devonian of the Midland Valley of Scotland. *Transactions of the Royal Society of Edinburgh, Earth Sciences*, 89: 161–165.
- Dunlop, J. A., Anderson, L. I. & Braddy, S. J. 2004. A redescription of *Chasmataspis laurencii* Caster & Brooks (Chelicerata: Chasmataspida) from the Middle Ordovician of Tennessee, USA, with remarks on chasmataspid phylogeny. *Transactions of the Royal Society of Edinburgh: Earth Sciences*, 94: 207–205.
- Dunlop, J. A., Bartel, C. & Mitov, P. G. 2012. An enigmatic spiny harvestman from Baltic amber. *Fossil record*, 15: 91–101.
- Dunlop, J. A., Harms, D., Penney, D. 2008. A fossil tarantula (Araneae: Theraphosidae) from Miocene Chiapas amber, Mexico. *Revista Ibérica de Aracnología*, 15: 9–17.
- Dunlop, J. A., Kotschán, J. & Zwanzig, M. 2013. Fossil mesostigmatid mites (Mesostigmata: Gamasina, Microgyniina, Uropodina), associated with longhorn beetles (Coleoptera: Cerambycidae) in Baltic amber. *Naturwissenschaften*, 100: 337–344.
- Dunlop, J. A., Sempf, C. & Wunderlich, J. 2010. A new opilioacarid mite in Baltic amber. In Nentwig, W., Entling, M. & Kropf, C. (eds). *European Arachnology 2008*, pp. 59–70.
- Dunlop, J. A., Wunderlich, J. & Poinar Jr., G. O. 2004. The first fossil opilioacariform mite (Acari: Opilioacariformes) and the first Baltic amber camel spider (Solifugae). *Transactions of the Royal Society of Edinburgh: Earth Sciences*, 94: 261–273.
- Dunlop, J. A., Selden, P. A. & Giribet, G. 2016. Penis morphology in a Burmese amber harvestman. *The Science of Nature*, 103: 1–5.
- Dunlop, J. A., Anderson, L. I., Kerp, H. & Hass, H. 2004. A harvestman (Arachnida: Opiliones) from the Early Devonian Rhynie cherts, Aberdeenshire, Scotland. *Transactions of the Royal Society of Edinburgh, Earth Sciences*, 94: 341–354.
- Dunlop, J. A., Bird, T. L., Brookhart, J. O. & Bechly G. 2015. A camel spider from Cretaceous Burmese amber. *Cretaceous Research*, 56: 265–273.
- Dunlop, J. A., Fayers, S. F., Hass, H. & Kerp, H. 2006. A new arthropod from the early Devonian Rhynie chert, Aberdeenshire (Scotland), with a remarkable feeding device in the mouthparts. *Paläontologische Zeitschrift*, 80: 296–306.
- Dunlop, J. A., Kotschán, J., Walter, D. E. & Perrichot, V. 2014. An ant-associated mesostigmatid mite in Baltic amber. *Biology Letters*, 10: 20140531.

- Dunlop, J. A., Wang, Y., Selden, P. A. & Krautz, P. 2014. A trigonotarbid arachnid from the Pennsylvanian Astrasado Formation of the Kinney Brick Quarry, New Mexico. *Palaeontological Contributions*, 9: 1–6.
- Dunlop, J. A., Legg, D. A., Selden, P. A., Fet, V., Schneider, J. W. & Rößler, R. 2016. Permian scorpions from the Petrified Forest of Chemnitz, Germany. *BMC Evolutionary Biology*, 16:72.
- Dunlop, J. A., Wirth, S., Penney, D., McNeil, A., Bradley, R. S., Withers, P. J. & Preziosi, R. F. 2012. A minute fossil phoretic mite recovered by phase-contrast X-ray computed tomography. *Biology Letters*, 8: 475–460.
- Ebert, T. 1892. *Prestwichia (Euproops) scheeleana*. – *Abhandlung und Jahrbuch Königl. Preussische Geologisches Landesanstalt*, 10: 215–220.
- Edgecombe, G. D. 1998. Early myriapodous arthropods from Australia: *Maldybulakia* from the Devonian of New South Wales. *Records of the Australian Museum*, 50: 293–314.
- Ehlers, G. M. 1935. A new eurypterid from the Upper Devonian of Pennsylvania. *Contributions from the Museum of Palaeontology, University of Michigan*, 4 (18): 291–295.
- Eichwald, E. 1854. Die Grauwackenschichten von Live- und Esthland. *Bulletin de la Société Imperiale des Naturalistes de Moscou*, 27: 1–211.
- Eichwald, E. 1860. *Lethaea Rossica. Vol. 1. Seconde section de l'ancienne Période*. Librairie et Imprimerie de E. Schweizerbart, Stuttgart, 1657 pp.
- Eldredge, N. 1974. Revision of the suborder Synziphosurina (Chelicerata, Merostomata), with remarks on merostome phylogeny. *American Museum Novitates*, 2543: 1–41.
- Elias, M. K. 1936. Character and significance of the late Paleozoic flora of Garnett, Kansas. *Journal of Geology*, 44: 9–23.
- Eller, E. R. 1938a. A review of the xiphosuran genus *Belinurus* with the description of a new species, *B. alleganyensis*. *Annals of the Carnegie Museum*, 27: 129–150.
- Eller, E. R. 1938b. A new xiphosuran, *Euproops morani*, from the Upper Devonian of Pennsylvania. *Annals of the Carnegie Museum*, 27: 152–153.
- Eller, E. R. 1940. *Belinurus carteri* a new xiphosuran from the Upper Devonian of Pennsylvania. *Annals of the Carnegie Museum*, 28: 133–136.
- Ellingsen, E. 1906. Report on the pseudoscorpions of the Guinea Coast (Africa) collected by Leonardo Fae. *Annali del Museo Civico de Storia Naturale di Genova*, (3)2: 243–265.
- Ellingsen, E. 1909. On some North American pseudoscorpions collected by Dr. F. Silvestri. *Bollettino del Laboratorio di Zoologia Generale e Agraria della R. Scuola sup. d'Agricoltura, Portici*, 3: 216–221.
- Elzinga, R. J. 1993. Larvamimidae, a new family of mites (Acari: Dermanyssoidea) associated with army ants. *Acarologia*, 34: 95–103.
- Emerton, J. H. 1875 Notes on spiders from Caves in Kentucky, Virginia and Indiana. *American Naturalist*, 9: 278–281.

- Emerton, J. H. 1882. New England spiders of the family Theridiidae. *Transactions of the Connecticut Academy of Arts and Sciences*, 6: 1–86.
- Engel, M. S. & Grimaldi, D. A. 2014. Whipspiders (Arachnida: Amblypygi) in amber from the Early Eocene and mid-Cretaceous, including maternal care. *Novitates Paleoentomologicae*, 9: 1–17.
- Engel, M. S., Breitschneider, L. C. V., Cai, C.-y., Alvarado, M., Azar, D. & Huang, D.-y. 2016. The first Mesozoic microwhip scorpion (Palpigradi): a new genus and species in mid-Cretaceous amber from Myanmar. *The Science of Nature*, 103: 19.
- Eskov, K. Y. 1984. A new fossil spider family from the Jurassic of Transbaikalia from (Araneae: Chelicerata). *Neues Jahrbuch für Geologie und Paläontologie, Monatshefte*, 1984: 645–653.
- Eskov, K. Y. 1987. A new archaeid spider (Chelicerata: Araneae) from the Jurassic of Kazakhstan, with notes on the so-called “Gondwanan” ranges of recent taxa. *Neues Jahrbuch für Geologie und Paläontologie, Abhandlungen*, 175: 81–106.
- Eskov, K. Y. 1992. Archaeid spiders from Eocene Baltic amber (Chelicerata: Araneida: Arachaeidae) with remarks on the so-called “Gondwanan” ranges of Recent taxa. *Neues Jahrbuch für Geologie und Paläontologie, Abhandlungen*, 185: 311–328.
- Eskov, K. Y. & Marusik, Y. M. 1992. [Fossil spiders of the family Nesticidae.] *Palaeontologicheskii Zhurnal*, 2: 87–95. [In Russian]
- Eskov, K. Y. & Selden, P. A. 2005. First record of spiders from the Permian period (Araneae: Mesothelae). *Bulletin of the British arachnological Society*, 13: 111–116.
- Eskov, K. Y. & Wunderlich, J. 1995 (for 1994). On the spiders of the Taimyr ambers, Siberia, with the description of a new family and with general notes on the spiders from the Cretaceous resins. *Beiträge zur Araneologie*, 4: 95–107.
- Eskov, K. Y. & Zonstein, S. 1990. First Mesozoic mygalomorph spiders from the Lower Cretaceous of Siberia and Mongolia, with notes on the system and evolution of the infraorder Mygalomorphae (Chelicerata: Araneae). *Neues Jahrbuch für Geologie und Paläontologie, Abhandlungen*, 178: 325–368.
- Eskov, K. Y. & Zonstein, S. L. 2000. The first Ctenizoid Mygalomorph Spiders from Eocene Baltic amber (Araneida: Mygalomorphae: Ctenizidae). *Paleontological Journal*, 34: S268–S274. [Translated into English; original in Russian]
- Etheridge Jr., R. 1877. On the remains of a large crustacean, probably indicative of a new species of *Eurypterus*, or allied genus (*Eurypterus? Stevensoni*), from the Lower Carboniferous Series (Cementstone Group) of Berwickshire. *Quarterly Journal of the Geological Society*, 33: 223–228.
- Evans, G. O. 1957. An introduction to the British Mesostigmata (Acarina) with key to families and genera. *Journal of the Linnean Society of London*, 43: 203–259.
- Ewing, H. E. 1917a. A synopsis of the genera of beetle mites with special reference to the North American fauna. *Annals of the Entomological Society of America*, 10: 117–132.

- Ewing, H. E. 1922. Studies on the taxonomy and biology of the tarsnemid mites, together with a note on the transformation of *Acarapis (Tarsonemus) woodi* Rennie (Acarina). *Canadian Entomologist*, 54: 104–113.
- Ewing, H. E. 1929. A synopsis of the American arachnids of the primitive order Ricinulei. *Annals of the Entomological Society of America*, 22: 583–600.
- Ewing, H. E. 1930. A fossil arachnid from the Lower Carboniferous shales (Pococno formation) of Virginia. *Annals of the Entomological Society of America*, 23: 641–643.
- Ewington, D. L., Clarke, M. J. & Banks, M. R. 1989. A Late Permian fossil horseshoe crab (*Paleolimulus*: Xiphosura) from Poatina, Great Western Tiers, Tasmania. *Papers and Proceedings of the Royal Society of Tasmania*, 123: 127–131.
- Fage, L. 1912. Etudes sur les araignées cavernicoles. I. Revision des Ochyroceratidae (n. fam.). *In Biospologica*, XXV. *Archives de Zoologie expérimentale et generale*, 10: 97–162.
- Fage, L. 1913. Etudes sur les Araignées cavernicoles. II. Revision des Leptonetidae. *In Biospologica*, XXIX. *Archives de Zoologie expérimentale et generale*, 10: 479–576.
- Fain, A. 1956. Une nouvelle famille d'acariens endoparasites des chauves-souris: Gastronyssidae fam. nov. *Annales de la Société Belge de Médecine Tropicale*, 36: 87–98.
- Fain, A. 1957. Notes sur l'acariase des voies respiratoires chez l'homme et chez les animaux. Description de deux nouveaux acariens chez un lémurien et des rongeurs. *Annales de la Société Belge de Médecine Tropicale*, 37: 469–481.
- Fain, A. 1961. Une nouvelle famille d'acariens, parasites de serpents du genre *Mehelya* au Congo: Omentolaelaptidae Fam. nov. (Mesostigmata). *Revue de Zoologie et de Botanique Africaine*, 64: 283–296.
- Fain, A. 1967a. Nouveaux hypopes vivant dans les follicules pileux de Rongeurs américains. *Revue de Zoologie et de Botanique Africaine*, 76: 157–162.
- Fain, A. 1967b. Un acarien remarquable récolté sur un Tarsier (Heteroptidae f.n. : Sarcoptiformes). – *Zoologischer Anzeiger*, 178: 90–94.
- Fain, A. 1968. Deux nouveaux Acariens Cavernicoles du Gabon (Sarcoptiformes). *Revue Biologia Gabonica*, 4: 195–205.
- Fain, A. 1974. Acariens récoltés par le Dr. J. Travé aux îles subantarctiques. I. Familles Saprogllyphidae et Hyadesidae (Astigmata). *Acarologia*, 16: 684–708.
- Fain, A. 1977. Nouveaux Acariens Astigmata cavernicoles du Kenya. *Revue suisse de Zoologie*, 84: 565–581.
- Fayers, S. R., Dunlop, J. A. & Trewin, N. H. 2005. A new early Devonian trigonotarbid arachnid from the Windyfield chert, Rhynie, Scotland. *Journal of Systematic Palaeontology*, 2: 269–284.
- Feider, Z. 1955. Arachnida, Acarina Trombidioidea. *Fauna RPR*, 5: 1–187.

- Feider, Z. & Vasiliu, N. 1969. Révision critique de la famille des Nicoletiellidae. *In* Proc. 2nd International Congress of Acarology, Sutton Bonington, England 1967. Acad. Kiado, Budapest: pp. 202–207.
- Feldmann, R. M., Schweitzer, C. E., Dattilo, B. & Farlow, J. O. 2011. Remarkable preservation of a new genus and species of limuline horseshoe crab from the Cretaceous of Texas, USA. *Palaeontology*, 54: 1337–1346.
- Feldmann, R. M., Vega, F. J., Applegate, S. P., & Bishop, G. A. 1998. Early Cretaceous arthropods from the Tlayua Formation at Tepexi de Rodriguez, Puebla, México. *Journal of Paleontology*, 72: 79–90.
- Fet, V. & Bechly, G. 2001. Case 3120a. Liochelidae, fam. nov. (Scorpiones): proposed introduction as a substitute name for Ischnuridae Simon, 1879, as an alternative to the suggested emendment of Ischnurinae Fraser, 1957 (Insecta, Odonata) to Ischnurinae in order to remove homonymy. *Bulletin of Zoological Nomenclature*, 58: 280–281.
- Fischer de Waldheim, G. 1839. Notes sur un crustacé fossile du genre *Eurypterus* de Podolie. *Bulletin de la Societe Imperiale des Naturalistes de Moscou*, 11: 125–128.
- Flower, R. H. 1945. A new Deepkill eurypterid. *American Midland Naturalist*, 34: 717–719.
- Flower, R. [H.] 1969. Merostomes from a Cotter horizon of the El Paso Group. *New Mexico Bureau of Mines and Mineral Resources Memoir*, 22: 35–44.
- Fraipont, J. 1889. Euryptérides nouveaux du Dévonien Supérieur de Belgique (Psammites du Condroz). *Annales de la Société Géologique de Belgique*, 17: 53–62.
- Forsslund, K.-H. 1941. Schwedische Arten der Gattung *Suctobelba* Paoli (Acari, Oribatei). *Zoologiska bidrag fran Uppsala*, 20: 381–396.
- Forsslund, K.-H. 1947. Über die Gattung *Autogneta* Hull (Acari, Oribatei). *Zoologiska bidrag fran Uppsala*, 25: 111–117.
- Forsslund, K.-H. 1956. Schwedische Oribatei (Acari). III. *Entomologisk Tidskrift*, 77: 210–218.
- Forster, R. R. 1948. A new sub-family and species of New Zealand Opiliones. *Records of the Auckland Institute and Museum*, 3: 313–318.
- Forster, R. R. 1954. The New Zealand harvestmen (sub-order Laniatores). *Canterbury Museum Bulletin*, 2: 1–329.
- Forster, R. R. 1955. A new family of spiders of the sub-order Hypochilomorphae. *Pacific Science*, 9: 277–285.
- Forster, R. R. & Forster, L. 1999. *Spiders of New Zealand and their worldwide kin*. University of Otago Press, Dunedin, vi + 270 pp.
- Forster, R. R. & Platnick, N. I. 1984. A review of archaeid spiders and their relatives, with notes on the superfamily Palpimanoidea (Arachnida: Araneae). *Bulletin of the American Museum of Natural History*, 178: 1–106.
- Forster, R. R. & Wilton, C. L. 1973. The spiders of New Zealand. Part IV. *Otago Museum Bulletin*, 4: 1–309.

- Frič, A. 1873. Fauna der Steinkohlenformation Böhmens. *Archiv für Naturwissenschaftliche Landesdurchforschung von Böhmen*, 2(2): 1–16.
- Frič, A. 1899a. On *Prolimulus woodwardi*. *Geological Magazine*, 6: 57–58.
- Frič, A. 1899b. *Fauna der Gaskohle und der Kalksteine der Permformation Böhmens*. Vol. IV: pp. 33–64.
- Frič, A. 1901. *Fauna der Gaskohle und der Kalksteine der Permformation Böhmens*. Vol. IV, part 2. Myriopoda pars II. Arachnoidea, pp. 56–63, pls 153, 154, Prague.
- Frič, A. 1904. *Palaeozoische Arachniden*. A Frič, Prague, 85 pp.
- Fritsch, K. von 1906. Beitrag zur Kenntnis der Tierwelt der deutschen Trias. *Abhandlungen der naturforschender Gesellschaft Halle*, 24: 220–285.
- Fry, W. G. 1978. A classification within the pycnogonids. *Zoological Journal of the Linnean Society*, 63: 35–58.
- Funk, R. C. 1975. Megacelaenopsidae, a new family of Celaenopsoidea (Acari, Mesostigmata). *Acarologia*, 16: 382–393.
- Funk, R. C. 1977. *Triplogynium krantzi* n. g., n. sp., type of Triplogyniidae n. fam. (Mesostigmata, Celaenopsoidea). *International Journal of Acarology*, 3: 71–79.
- García-Villafuerte, M. Á. 2006a. A new fossil *Episinus* (Araneae, Theridiidae) from Tertiary Chiapas amber, Mexico. *Revista Ibérica de Aracnología*, 13: 120–125.
- García-Villafuerte, M. Á. 2006b. Selenopidae y Thomisidae (Arachnida: Araneae) en ámbar de Chiapas, México. *Boletín Sociedad Entomológica Aragonesa*, 38: 209–212.
- García-Villafuerte, M. Á. 2008. Primer registro fósil del género *Hemirraghus* (Araneae, Theraphosidae) en ámbar del Terciario, Chiapas, México. *Revista Ibérica de Aracnología*, 16: 43–47.
- Garwood, R. J., Dunlop, J. A., Giribet, G. & Sutton, M. D. 2011. Anatomically modern Carboniferous harvestmen demonstrate early cladogenesis and stasis in Opiliones. *Nature Communications*, 2:444: 1–7.
- Garwood, R. J., Sharma, P. P., Dunlop, J. A., Giribet, G. 2014. A Paleozoic stem group to mite harvestmen revealed through integration of phylogenetics and development. *Current Biology*, 24: 1–7.
- Garwood, R. J., Dunlop, J. A., Selden, P. A., Spencer, A. R. T., Atwood, R. C., Vo, N. T. & Drakopoulos, M. 2016. Almost a spider: a 305-million-year-old fossil arachnid and spider origins. *Proceedings of the Royal Society B*, 283: 20160125.
- Gaud, J. & Atyeo, W. T. 1975. Gabuciniidae, famille nouvelle de Sarcoptiformes plumicoles. *Acarologia*, 16: 522–561.
- Gaud, J. & Atyeo, W. T. 1976. Ascouracarinae, n. sub-fam. des Syringobiidae, Sarcoptiformes plumicoles. *Acarologia*, 18: 143–162.
- Gaud, J. & Atyeo, W. T. 1977. A new name for *Ovacarus* and Ovacaridae (Acarina: Analgoidea). *Acarologia*, 18: 568–569.
- Gaud, J. & Atyeo, W. T. 1978. Nouvelles superfamilles pour les Acariens astigmatés parasites d'oiseaux. *Acarologia*, 19: 678–685.

- Gaud, J. & Mouchet, J. 1961. Deux genres nouveaux de Sarcoptiformes plumicoles. Un nouveau critere dans la systematique des Analgesoidea. *Acarologia*, 3: 591–598.
- Gaud, J., Atyeo, W.T. & Berla, H.F. 1972. Acariens Sarcoptiformes plumicoles parasites des Tinamous. *Acarologia*, 14: 393–453.
- Gaud, J., Atyeo, W. T. & Klompen, J. S. H. 1989. Oconnoriidae, a new family of feather mites (Acarina, Pterolichoidea). *Journal of Entomological Science*, 24: 417–421.
- Geinitz, H. B. 1882. *Kreischeria wiedeii*, ein Pseudoskorpion aus der Steinkohlenformation von Zwickau. *Zeitschrift der Deutschen geologischen Gesellschaft*, 34: 238–242.
- Gerecke, R., Smith, I. M. & Cook, D. R. 1999. Three new species of *Apheviderulix* gen. nov. and proposal of Apheviderulicidae fam. nov. (Acari: Hydrachnidia: Eylaoidea). *Hydrobiologia*, 397: 133–147.
- Gerson, U. & Walter, D. E. 1998. Transfer of *Mecognatha* Wood from Stigmaeidae to Mecognathidae, fam. nov., a new synonymy, and a key to families of Raphignathoidea (Acari: Prostigmata). *Systematic and Applied Acarology*, 3: 145–147.
- Gerstaecker, C. E. A. 1863. Pantopoda. 248–350. In Carus, J. V. & Gerstaecker, C. E. A. (eds). *Handbuch der Zoologie*, 2. W. Engelmann, Leipzig, 642 pp.
- Gertsch, W. J. 1941. Report on some arachnids from Barro Colorado Island, Canal Zone. *American Museum Novitates*, 1146: 1–14.
- Gertsch, W. J. & Davis, L. I. 1946. Report on a collection of spiders from Mexico. V. *American Museum Novitates*, 1313: 1–11.
- Gervais, P. M. 1844. Remarques sur la famille des Scorpiones et descriptions des plusieurs espèces nouvelles de la collection du Muséum. *Archives du Muséum d'Histoire Naturelle, Paris*, 4: 201–240.
- Gess, R. W. 2013. The earliest record of terrestrial animals in Gondwana: A scorpion from the Famennian (Late Devonian) Witpoort Formation of South Africa. *African Invertebrates*, 54: 373–379.
- Giebel, C. G. 1856. *Die Insekten und Spinnen der Vorwelt mit steter Berücksichtigung der lebenden Insekten und Spinnen; monographisch dargestellt*. Leipzig, 511 pp.
- Gill, E. L. 1909. An arachnid from the Coal Measures of the Tyne Valley. *Transactions of the Natural History Society of Northumberland, Durham and Newcastle-upon-Tyne, new series*, 3(2): 3–16.
- Gill, E. L. 1911. A Carboniferous arachnid from Lancashire. *Geological Magazine*, 48: 395–398.
- Gill, E. L. 1924. Fossil arthropods from the Tyne Coalfield. *Geological Magazine*, 61: 445–471.
- Giribet, G. & Dunlop, J. A. 2005. First identifiable Mesozoic harvestman (Opiliones: Dyspnoi) from Cretaceous Burmese amber. *Proceedings of the Royal Society B*, 272: 1007–1013.
- Giribet, G., Tourhino, A. L., Shih, C.-k. & Ren, D. 2012. An exquisitely preserved harvestman (Arthropoda, Arachnida, Opiliones) from the Middle Jurassic of China. *Organisms, Diversity & Evolution*, 12: 51–56.
- Giribet, G., Sharma, P. P., Benavides, L. R., Boyer, S. L., Clouse, R. M., De Bivort, B. L., Dimitrov, D., Kawauchi, G. Y., Muriene, J., Schwendinger, P. J. 2012. Evolutionary and biogeographical history of an ancient

- and global group of arachnids (Arachnida: Opiliones: Cyphophthalmi) with a new taxonomic arrangement. *Biological Journal of the Linnean Society*, 105: 92–130.
- Gistel, J. 1848. *Naturgeschichte des Thierreichs für höhere Schulen*. Stuttgart, pp. 155–156.
- Gjelstrup, P. & Solhøy, T. 1994. Oribatid mites (Acari). In *The Zoology of Iceland*. *Steenstrupia*, (3) 57: 1–78.
- Glushenko, N. V. & Ivanov, V. K. 1961. [*Paleolimulus* from the Lower Permian of the Donetz Basin.] *Paleontologeskij Žurnal*, 1861: 128–130. [in Russian]
- Goldenberg, F. 1873. *Fauna Saraepontana Fossilis. Die fossilien Thiere aus der Steinkohlenformation von Saarbrücken. Erstes Heft*. Chr. Möllinger Verlag, Saarbrücken, 26 pp.
- Goodnight, J. C. & Goodnight, M. L. 1942. Phalangids from Central America and the West Indies. *American Museum Novitates*, 1184: 1–23.
- Gonzalez, R. H. 1978. A new species of xenocaligonellid mite from the Galapagos Islands (Acari). *Proceedings of the Entomological Society of Washington*, 80: 191–196.
- González-Sponga, M. A. 1997. Arácnidos de Venezuela. Una nueva familia, dos nuevos géneros y dos nuevas especies de Opiliones Laniatores. *Acta Biologica Venezuelica*, 17: 51–58.
- Gourret, P. 1887. Recherches sur les Arachnides tertiaires d'Aix en Provence. *Recueil Zoologique Suisse*, 4: 431–496.
- Grabau, A. W. 1920. A new species of *Eurypterus* from the Permian of China. *Bulletin of the Geological Survey of China*, 2: 61–68.
- Grandjean, F. 1931. Observations sur les Oribates (1^{re} Série). *Bulletin du Muséum National d'Histoire Naturelle*, 3: 131–144.
- Grandjean, F. 1932a. Observations sur les Oribates (3^e série). *Bulletin du Muséum National d'Histoire Naturelle*, 4: 292–306.
- Grandjean, F. 1932b. Au sujet des *Palaeacariformes* Trägårdh. *Bulletin du Muséum National d'Histoire Naturelle*, 4: 411–426.
- Grandjean, F. 1933. Études sur les Développement des Oribates. *Bulletin de la Société zoologique de France*, 58: 30–61.
- Grandjean, F. 1934. La notation des poils gastronomiques et des poils dorsaux du propodosoma chez les Oribates (Acariens). *Bulletin de la Société zoologique de France*, 59: 12–44.
- Grandjean, F. 1936a. Les Microzetidae n. fam. (Oribates). *Bulletin de la Société zoologique de France*, 61: 60–93.
- Grandjean, F. 1936b. Les Oribates de Jean Frédéric Hermann et de son père [Arachn. Acar.]. *Annales Société Entomologique de France*, 105: 27–110.
- Grandjean, F. 1936c. Observations sur les Oribates (10^e Série). *Bulletin du Muséum National d'Histoire Naturelle*, 8: 246–253.

- Grandjean, F. 1937. Le Genre *Pachygnathus* Dugès (*Alycus* Koch) (Acariens). Cinquième et dernière partie. *Bulletin du Muséum National d'Histoire Naturelle*, 9: 262–269.
- Grandjean, F. 1939. Quelques genres d'Acariens appartenant au groupe des Endeostigmata. *Annales des Sciences Naturelles – Zoologie et Biologie Animale, Série 11*, 2: 1–122.
- Grandjean, F. 1947a. Études sur les Smarisidae et quelques autres Érythroïdes (Acariens). *Archives de Zoologie Expérimental et Générale*, 85: 1–126.
- Grandjean, F. 1947b. Les Enarthronota (Acariens). Première série. *Annales des Sciences Naturelles – Zoologie et Biologie Animale*, 8: 213–248.
- Grandjean, F. 1948. Les Enarthronota (Acariens). (2^e série). *Annales des Sciences Naturelles – Zoologie et Biologie Animale*, 10: 29–58.
- Grandjean, F. 1950. Les Enarthronota (Acariens). (3^e série). *Annales des Sciences Naturelles – Zoologie et Biologie Animale*, 12: 85–107.
- Grandjean, F. 1951. Observations sur les Oribates (22^e Série). *Bulletin du Muséum National d'Histoire Naturelle*, 23: 91–98.
- Grandjean, F. 1953. Observations sur les Oribates (25^e Série). *Bulletin du Muséum National d'Histoire Naturelle*, 25: 155–162.
- Grandjean, F. 1954a. Observations sur les Oribates (28^e série). *Bulletin du Muséum National d'Histoire Naturelle*, 26: 204–211.
- Grandjean, F. 1954b. Essai de classification des Oribates (Acariens). *Bulletin de la Société zoologique de France*, 78: 421–446.
- Grandjean, F. 1954c. Etude sur les Palaeacaroides (Acariens, Oribates). *Mémoires du Muséum National d'Histoire Naturelle*, 7: 179–274.
- Grandjean, F. 1956a. Sur deux espèces nouvelles d'oribates (Acariens) appartenant à *Oripoda elongata* Banks 1904. *Archives de Zoologie Expérimentale et Générale*, 93: 185–218.
- Grandjean, F. 1956b. Galumnidae sans carènes lamellaires (Acariens, Oribates), 1^{re} série. *Bulletin de la Société zoologique de France*, 81: 134–150.
- Grandjean, F. 1958a. *Perlohmannia dissimilis* (Hewitt) (Acarien, Oribate). *Mémoires du Muséum National d'Histoire Naturelle*, 16: 57–120.
- Grandjean, F. 1958b. *Charassobates cavernosus* Grandj. 1929 (Acarien, Oribate). *Mémoires du Muséum National d'Histoire Naturelle*, 16: 121–140.
- Grandjean, F. 1959. *Polypterozetes cherubin* Berl. 1916 (Oribate). *Acarologia*, 1: 147–180.
- Grandjean, F. 1960a. Les Mochlozetidae n. fam. (Oribates). *Acarologia*, 2: 101–148.
- Grandjean, F. 1960b. Les Autognetidae n. fam. (Oribates). *Acarologia*, 2: 575–609.
- Grandjean, F. 1961a. Les Plasmobatidae n. fam. (Oribates). *Acarologia*, 3: 96–129.
- Grandjean, F. 1961b. Les Amerobelbidae (Oribates). (1^{re} partie). *Acarologia*, 3: 303–343.

- Grandjean, F. 1963. Les Autognetidae (Oribates). Deuxième partie. *Acarologia*, 4: 632–689.
- Grandjean, F. 1965a. Nouvelles observations sur les Oribates (4^e série). *Acarologia*, 7: 91–112.
- Grandjean, F. 1965b. Oribates mexicains (2^e série). *Stelechobates megalotrichus* n.g., n.sp. *Acarologia*, 7: 532–563.
- Grandjean, F. 1965c. Complément à mon travail de 1953 sur la classification des Oribates. *Acarologia*, 7: 713–734.
- Grandjean, F. 1966. Les Staurobatidae n. fam. (Oribates). *Acarologia*, 8: 696–727.
- Grandjean, F. 1967. Nouvelles observations sur les Oribates (5^e série). *Acarologia*, 9: 242–272.
- Grandjean, F. 1969. Considérations sur le classement des Oribates. Leur division en 6 groupes majeurs. *Acarologia*, 11: 127–153.
- Grandjean, F. 1970. Nouvelles observations sur les Oribates (8^e série). *Acarologia*, 12: 849–876.
- Grassi, B. & Calandruccio, S. 1885. Intorno ad un nuovo Aracnide Artrogastro (*Koenenia mirabilis* [sic]) che crediamo rappresentante d'un nuovo ordine (Microteliphonida). *Naturalista Siciliano*, 4: 127–133, 162–168.
- Griffiths, D. A. 1977. A new family of astigmatid mites from the Iles Crozet, sub-Antarctica, introducing a new concept relating to ontogenetic development of idiosomal setae. *Journal of Zoology, London*, 182: 291–308.
- Grimaldi, D. A., Engel, M. S. & Nascimbene, P. C. 2002. Fossiliferous Cretaceous amber from Myanmar (Burma): its rediscovery, biotic diversity, and paleontological significance. *American Museum Novitates*, 3361: 1–71.
- Griswold, C., Audisio, T. & Ledford, J. 2012. An extraordinary new family of spiders from caves in the Pacific Northwest (Araneae, Trogloraptoridae, new family). *ZooKeys*, 215: 77–102.
- Gromov, A.V. 1998. [A new family, genus and species of scorpions (Arachnida, Scorpiones) from southern Central Asia.] – *Zoologicheskyy Zhurnal*, 77: 1003–1009. [In Russian.]
- Grote, A. R. & Pitt, W. H. 1875. I. Description of a new Crustacean from the Water Lime Group at Buffalo. *Bulletin of the Buffalo Society of Natural Sciences*, 3: 1–2.
- Gross, W. 1933. Die unterdevonischen Fische und Gigantostraken von Overath. *Abhandlungen der Preußischen Geologischen Landesanstalt (N. F.)*, 145: 41–77.
- Gu, Y.-M., Wang, C.-S. & Duan, Q.-X. 1991. Description of a new genus and a new species and proposal of a new family for the gamasides (Acari: Gamasina). *Acta Zootaxonomica Sinica*, 16: 333–338.
- Gu Y.-M., Wang, C.-S. & Li, J. 1991. A new genus and species of Gamasides off *Julus terrestris* and a new family proposed (Acari: Dermanyssoidea). *Acta Zootaxonomica Sinica*, 16: 428–431.
- Guérin-Méneville, F. E. 1839. Gastéracanthes scuptée et de Feisthamel, nouvelles espèces d'aranéides. *Revue zoologique*. 1839: 109–111.

- Gunther, C. E. M. 1942. Notes on the Listrophoridae (Acarina: Sarcoptoidea). *Proceedings of the Linnean Society of New South Wales*, 67: 109–110.
- Guthörl, P. 1934. Die Arthropoden aus dem Carbon und Perms des Saar-Nahe-Pfalz-Gebietes. *Abhandlungen der Preußischen Geologischen Landesanstalt (N.F.)*, 164: 1–219.
- Guthörl, P. 1938. *Eophrynus waechteri* n. sp. (Arac., Anthracom.) aus der Tiefbohrung Stangenmühle, Saar-Karbon. *Senckenbergiana*, 20: 465–470.
- Guthörl, P. 1964. Zur Arthropoden-Fauna des Karbons und Perms. 20. Neue Arachniden-Funde (Anthracom.) aus dem Westfal A des Aachener Karbons. *Paläontologische Zeitschrift*, 38: 98–103.
- Guthörl, P. 1965. Zur Arthropoden-Fauna des Karbons und Perms. 19. Weiteres über die Arachniden aus dem Westfal und Stefan des saar-lothringischen und pfälzischen Karbons. *Annales Universitatis Saraviensis*, 4: 10–24.
- Gutiérrez-Marco, J. C., Tetlie, O. E., Arillo, A. & Rábano, I. 2005. El escorpión más antiguo de la Península Ibérica: *Parisobuthus* sp., del Estefaniense de la cuenca de Villablino (León). *Jornadas de Paleontología*, 22: 127–129.
- Haase, E. 1890. Beitrag zur Kenntniss der fossilen Arachniden. *Zeitschrift der Deutsche geologische Gesellschaft*, 1890: 629–657.
- Haeckel, E. 1866. *Generale Morphologie der Organismen. Band 2*. Berlin, 574 pp.
- Hadži, J. 1931. Skorpionreste aus dem tertiären Sprudelsinter von Böttingen (Schwäbische Alb). *Paläontologische Zeitschrift*, 13: 134–148.
- Hadži, J. 1935. Ein eigentümlicher neuer Höhlen-Opilionid aus Nord-Amerika, *Cladonychium corii* g.n. sp. n. *Biologia Generalis*, 11: 49–72.
- Halbert, J. N. 1915. Clare Island Survey, 39. Acarinida. Section II. Terrestrial and marine Acarina. *Proceedings of the Royal Irish Academy*, 31: 45–136.
- Hall, J. 1859. *Natural History of New York: Palaeontology, III*. New York State Museum, 532 pp.
- Hall, C. E. 1877. Contributions to Palaeontology from the Museum of the Second Geological Survey. *Proceedings of the American Philosophical Society*, 16: 621??.
- Hall, J. 1884a. Description of a New Species of *Stylonurus* from the Catskill Group. *New York State Museum (36th Annual Report)*: 76–77.
- Hall, J. 1884b. Note on Eurypteridae of the Devonian and Carboniferous Formations of Pennsylvania, with a supplementary note on the *Stylonurus excelsior*. *Proceedings of the American Association for the Advancement of Science*, 33: 420–422.
- Hall, J. 1884c. Eurypteridae from the Lower Productive Coal Measures in Beaver County, and the Lower Carboniferous Pithole Shale in Venango County. 2nd *Geological Survey of Pennsylvania. Report of Progress PPP*: 23–39.

- Halliday, R. B. 2006. New taxa of mites associated with Australian termites (Acari: Mesostigmata). *International Journal of Acarology*, 32: 27–38.
- Hall, J. & Clarke, J. M. 1888. *Paleontology of New York*. New York, 236 pp.
- Hall, J. & Clarke, J. M. 1888. Trilobites and other Crustacea of the Oriskany, Upper Helderberg, Hamilton, Portage, Chemung, and Catskill Groups. *Geological Survey of the State of New York, Palaeontology*, 7:
- Hammen, L. van der 1953. Notes on the Oribatei (Acari) of Dutch New Guinea I. *Allonothrus schuilingi* nov. gen., nov. spec. *Proc. Kon. Ned. Ak. Wet.* C65 (2): 244–250.
- Hammen, L. van der 1963. Description of *Fortuynia yunkerii* nov. spec., and notes on the Fortuyniidae nov. fam. (Acarida, Oribatei). *Acarologia*, 5: 152–167.
- Hammen, L. van der 1972. A revised classification of the mites (Arachnidea, Acarida) with diagnoses, a key and notes on phylogeny. *Zoologische Mededelingen*, 47: 273–292.
- Hammer, M. 1966. Investigations on the Oribatid Fauna of New Zealand, Part 1. *Biologiske Skrifter udgivet af Det Kongelige Danske Videnskabernes Selskab*, 15(2): 1–108.
- Hammer, M. 1967. Some oribatids from Kodiak Island near Alaska. *Acta Arctica*, 14: 5–25.
- Hammer, M. 1973. Oribatids from Tongatapu and Eua, the Tonga Islands, and from Upolu, Western Samoa. *Biologiske Skrifter udgivet af Det Kongelige Danske Videnskabernes Selskab*, 20(3): 1–70.
- Hanken, N.-M. & Størmer, L. 1975. The trail of a large Silurian eurypterid. *Fossils and Strata*, 4: 255–270.
- Hansen, H. J. 1894. Arthrogastra Danica: en monographisk fremstilling af de i Danmark levende Meiere og Mosskorpioner med bidrag til sidstnaevnte underordens systematic. *Naturhistorisk Tidsskrift*, (3) 14: 491–554.
- Hansen, H. J. & Sørensen, W. 1904. *On two orders of Archanida*. Cambridge University Press, Cambridge, xi + 178 pp.
- Harger, O. 1874. Notice of a new spider from the Coal Measures of Illinois. *American Journal of Science*, 7: 219–223.
- Harlan, R. 1834. Critical notices of various organic remains hitherto discovered in North America. *Transactions of the Geological Society of Pennsylvania*, 1: 46–112.
- Harvey, M. S. 1990. Pezidae, a new freshwater mite family from Australia (Acarina: Halacaroidea). *Invertebrate Taxonomy*, 3: 771–781.
- Harvey, M. S. 1991. *Catalogue of the Pseudoscorpionida*. Manchester University Press, Manchester, vi + 726.
- Harvey, M. S. 1992. The phylogeny and classification of the Pseudoscorpionida (Chelicerata: Arachnida). *Invertebrate Taxonomy*, 6: 1373–1435.
- Harvey, M. S. 2002. Nomenclatural notes on Solifugae, Amblypygi, Uropygi and Araneae (Arachnida). *Records of the Western Australian Museum*, 20: 449–459.
- Harvey, M. S. 2003. *Catalogue of the smaller arachnid orders of the world*. CSIRO Publishing, Collingwood VC, xi + 385 pp.

- Harvey, M. A. & Selden, P. A. 1995. *Nyranytarbus*, replacement name for *Hemiphrynus* Frič, 1901 (Trigonotarbida: Eophrynidae). *Bulletin of the British arachnological Society*, 10: 74.
- Harvey, M. S., Cosgrove, J. G., Harms, D., Selden, P. A., Shih, C., Wang, C.-c. 2018. The oldest chthonioid pseudoscorpion Arachnida: Pseudoscorpiones: Chthonioidea: Chthoniidae: A new genus and species from mid-Cretaceous Burmese amber. *Zoologischer Anzeiger*, 273: 102–111.
- Haupt, H. 1956. Beitrag zu Kenntnis der eozänen Arthropodenfauna des Geiselthals. *Nova Acta Leopoldina n.s.*, 128: 1–90.
- Haupt, H. 1957. Eine spinnenartige Arthropode aus dem Rotliegenden: *Rhabdotarchooides simoni* n. gen. n. sp. *Hallesches Jahrbuch für Mitteldeutsche Erdgeschichte*, 2(4): 246–247.
- Haupt, J. 1983. Vergleichende Morphologie der Genitalorgane und Phylogenie der liphistomorphen Webspinnen (Araneae: Mesothelae). I. Revision der bisher bekannten Arten. *Zeitschrift für zoologische Systematik und Evolutionsforschung*, 21: 275–293.
- Hauschke, N. & Wilde, V. 1987. *Paleolimulus fuchsbergensis* n. sp. (Xiphosura, Merostomata) aus der oberen Trias von Nordwestdeutschland, mit einer Übersicht zur Systematik und Verbreitung rezenter Limuliden. *Paläontologische Zeitschrift*, 61: 87–108.
- Hauschke, N. & Wilde, V. 1989. Ein Limulide aus dem Zechstein (Oberes Perm) der Korbacher Bucht (Hessen, Bundesrepublik Deutschland). *Geologisches Jahrbuch Hessen*, 117: 17–21.
- Hauschke, N. & Wilde, V. 2000. Limulidenreste aus dem Unteren Buntsandstein (Benberg-Formation) von Beesenlaublingen (Sachsen-Anhalt). *Hallesches Jahrbuch für Geowissenschaften, Reihe B*, 22: 87–90.
- Hauschke, N. & Wilde, V. 2004. Palaeogene limulids (Xiphosura) from Saxony-Anhalt (Germany) – systematics and palaeobiogeography. *Hallesches Jahrbuch für Geowissenschaften, Reihe B*, 18: 161–168.
- Hauschke, N. & Wilde, V. 2008. Limuliden aus dem Oberen Buntsandstein von Süddeutschland. *Hallesches Jahrbuch für Geowissenschaften*, 30: 21–26.
- Hauschke, N., Osterink, H. W. & Wilde, V. 2009. Erster Nachweis eines Limuliden (Xiphosura, Limulacea) im Muschelkalk von Winterswijk (Niederlande). *Der Aufschluss*, 60: 13–23.
- Hauschke, N., Wilde, V. & Brauckmann, C. 2004. Triassic limulids from Madagascar – missing links in the distribution of Mesozoic Limulacea. *Neues Jahrbuch für Geologie und Paläontologie, Monatshefte*, 2004(2): 87–94.
- Hauschke, N., Wilde, V. & Pietrzeniuk, E. 1992. Ein Limulide aus dem Muschelkalk (mittlere Trias) von Rüdersdorf bei Berlin. *Zeitschrift für geologische Wissenschaft*, 20: 461–466.
- Hedgpeth, J. W. 1978. A reappraisal of the Palaeopantopoda with description of a species from the Jurassic. *Zoological Journal of the Linnean Society*, 63: 23–34.
- Heer, O. 1865. *Die Urwelt der Schweiz*. Friedrich Schultheß, Zürich, xxix + 622 pp.
- Heetoff, M., Helfen, L. & Norton, R. A. 2009. Description of *Neoliodes dominicus* n. sp. (Acari, Oribatida) from Dominican Amber, aided by synchrotron X-ray microtomography. *Journal of Paleontology*, 83: 153–159.

- Heide, S. van der 1951. Les arthropodes du terrain houiller du Limbourg meridionale (excepte les scorpions et les insects). *Mededeelingen van de Geologische Stichting Serie C-IV-3* 5: 1–84.
- Heineken C. & Lowe R. T. 1832. Descriptions of two species of Araneidae, natives of Madeira. *Zool. Journ.*, 5: 320–323.
- Henderickx, H. 2005. A new *Geogarypus* from Baltic amber (Pseudoscorpiones: Geogarypidae). *Phegea*, 33: 87–92.
- Henderickx, H. & Boone, M. 2014. The first fossil *Feaella* Ellingsen, 1906, representing an unexpected pseudoscorpion family in Baltic amber (pseudoscorpiones, Feaellidae). *Entomo-Info*, 25: 5–11.
- Henderickx, H. & Boone, M. 2016. The basal pseudoscorpion family Feaellidae Ellingsen, 1906 walks the Earth for 98.000.000 years: an new fossil genus has been found in Cretaceous Burmese amber (Pseudoscorpiones: Feaellidae). *Entomo-Info*, 27: 7–12.
- Henderickx, H., Tafforeau, P. & Soriano, C. 2012. Phase contrast synchrotron microtomography reveals the morphology of a partially visible new *Pseudogarypus* in Baltic amber (Pseudoscorpiones: Pseudogarypidae). *Palaeontologia Electronica*, 15: 2;17A,11 p.
- Henderickx, H., Cnudde, V., Masschaele, B., Dierick, M., Vlassenbroeck, J. & Hoorebeke, L. van 2006. Description of a new fossil *Pseudogarypus* (Pseudoscorpiones: Pseudogarypidae) with the use of X-ray micro-CT to penetrate opaque amber. *Zootaxa*, 1305: 41–50.
- Hentz, N. M. 1832. On North American spiders. *American Journal of Science*, 21: 99–109.
- Hentz, N. M. 1845. Descriptions and figures of the Araneides of the United States. *Boston Journal of Natural History*, 5: 189–202.
- Hentz, N. M. 1847. Descriptions and figures of the Araneides of the United States. *Boston Journal of Natural History* 5: 443–478.
- Hentz, N. M. 1850. Descriptions and figures of the Araneides of the United States. *Boston Journal of Natural History*, 6: 18–35, 271–295.
- Herbst, J. F. W. 1798. *Naturgeschichte der Ungeflügelten Insekten. Zweytes Heft*. Berlin, xx pp.
- Hermann, J. F. 1804. *Mémoire Apterologique*. F. G. Levrault, Strasbourg, 144 pp.
- Heyden, C. H. G. von 1826. Versuch einer systematischen Eintheilung der Acariden. *Isis von Oken*, 18: 609–613.
- Heyden, C. H. G. von 1859. Fossile Insekten aus der Rheinischen Braunkohle. *Palaeontographica*, 8: 1–15.
- Hibbert, S. 1836. On the fresh-water limestone of Burdiehouse in the neighbourhood of Edinburgh belonging to the Carboniferous Group of rocks. With supplementary notes on other fresh-water limestones. *Transactions of the Royal Society of Edinburgh*, 13: 169–282.
- Hickman, V. V. 1931. A new family of spiders. *Proceedings of the Zoological Society of London (B)*, 1931: 1321–1328.
- Hickman, V. V. 1944. On some new Australian Apneumonomorphae with notes on their respiratory system. *Papers and Proceedings of the Royal Society of Tasmania*, 1943: 179–195.

- Hickmann, V. V. 1945. A new group of apneumone spiders. *Transactions of the Connecticut academy of Arts and Sciences*, 36: 135–148.
- Hickman, V. V. 1949. Tasmanian littoral spiders with notes on their respiratory systems, habits and taxonomy. *Papers and Proceedings of the Royal Society of Tasmania*, 1948: 31–43.
- Hickman, V. V. 1957. A fossil spider from Tertiary resin from Allendale Victoria. *Proceedings of the Royal Society of Victoria, N.S.*, 69: 25–27.
- Hilton, W. A. 1942. Pantopoda (continued) II. Family Callipallenidae. *Journal of Entomology and Zoology, Pomona College, Claremont*, 34: 38–41.
- Hirschmann, W. 1971. A fossil mite of the genus *Dendrolaelaps* (Acarina, Mesostigmata, Digamasellidae) found in amber from Chiapas, Mexico. *University of California Publications in Entomology*, 63: 69–70.
- Hirst, S. 1923. On some arachnid remains from the Old Red Sandstone (Rhynie Chert bed, Aberdeenshire). *Annals and Magazine of Natural History, Series 9*, 12: 455–474.
- Hoek, P. C. C. 1881. Report on the Pycnogonida dredged by HMS Challenger 1873–76. *Reports of the Scientific Results of the Exploring Vessel HMS Challenger*, 3(10): 1–167.
- Hoff, C. C. 1963. Sternophorid pseudoscorpions, chiefly from Florida. *American Museum Novitates*, 1875: 1–36.
- Holl, F. 1829. *Handbuch der Peterefactenkunde*. Hilscher, Dresden, 489 pp.
- Holland F. D., Jr., Erickson, J. M. & O'Brien, D. E. 1975. *Casterolimulus*: a new Late Cretaceous generic link in Limulid lineage. Studies in Paleontology and Stratigraphy. *Bulletin of American Paleontology*, 62: 235–249.
- Holmberg, E. L. 1882. Observations à propos du sous-ordre des araignées territoriales (Territelariae), spécialement du genre nordaméricain *Catadysas* Hentz et de la sous-famille Mecicobothrioidae, Holmberg. *Boletín de la Academia Nacional de Ciencias en Cordoba (Argentina)*, 4: 153–174.
- Holmberg, E. L. 1883. *Neothereutes darwini* Holmb., representante de una nueva familia de Citrigradas. *Boletín de la Academia Nacional de Ciencias en Cordoba (Argentina)*, 5: 35–48.
- Hong Y.-c. 1982. [Study on new spider genus in amber.] *Science in China*, 24(12): 1500–1515. [In Chinese]
- Hong Y.-c. 1983a. [Discovery of a Miocene scorpion from the diatoms of Shanwang in Shandong Province.] *Bulletin of the Tianjin Institute of Geology and Mineral Resources*, 8, 17–21. [In Chinese]
- Hong Y.-c. 1983b. [Discovery of new fossil pseudoscorpiononods in amber.] *Bulletin of the Tianjin Institute of Geology and Mineral Resources*, 8: 24–29. [In Chinese]
- Hong Y.-c. 1984. Arachnida. 185–187 In Tianjin Institute of Geology and Mineral Resources (eds). *Palaeontological Atlas of North China II. Mesozoic Volume*. Geological Publishing House, Beijing. [In Chinese with English summary]
- Hong Y.-c. 1985. *Fossil Insects, scorpionids and araneids in the diatoms of Shanwang*. Geological Publishing House, Beijing, 80 pp.

- Hopkins, D. M., Giterman, R. E. & Matthews, J. V. 1976. Interstadial mammoth remains and associated pollen and insect fossils, Kotzebue Sound area, northwestern Alaska. *Geology*, 4: 169–173.
- Hradská, I. & Dunlop, J. A. 2013. New records of Pennsylvanian trigonotarbid arachnids from West Bohemia, Czech Republic. *The Journal of Arachnology*, 41: 335–341.
- Huang D.-y., Selden, P. A. & Dunlop, J. A. 2009. Harvestmen (Arachnida: Opiliones) from the Middle Jurassic of China. *Naturwissenschaften*, 96: 955–962.
- Huang, D.-y., Hormiga, G., Cai, C.-y., Su, Y., Yin, Z.-j., Xia, F.-y. & Giribet, G. 2018. Origin of spiders and their spinning organs illuminated by mid-Cretaceous amber fossils. *Nature Ecology and Evolution*, 2: 623–627.
- Huber, B. A. 2003. Southern African pholcid spiders revision and cladistic analysis of *Quamtana* gen. nov. and *Spermophora* Hentz (Araneae: Pholcidae), with notes on male–female covariation. *Zoological Journal of the Linnean Society*, 139: 477–527.
- Huber, B. A. & Wunderlich, J. 2006. Fossil and extant species of the genus *Leptopholcus* in the Dominican Republic, with the first cases of egg-parasitism in pholcid spiders (Araneae: Pholcidae). *Journal of Natural History*, 40: 2341–2360.
- Hull, J. E. 1920. The spider family Linyphiidae: an Essay in Taxonomy. *Vasculum*, 6: 7–11.
- Hünicken, M. A. 1980. A giant fossil spider (*Megarachne servinei*) from Bajo de Véliz, Upper Carboniferous, Argentina. *Boletín de la Academia Nacional de Ciencias, Córdoba*, 53: 317–341.
- Hunter, J. R. S. 1886. Notes on the discovery of a fossil scorpion (*Paleophonus caledonicus*) in the Silurian strata of Logan water. *Transactions of the Geological Society of Glasgow*, 8: 169–170.
- Hunter, P. E. 1993. A new family of mites, Costacaridae (Mesostigmata: Trigynaspida: Celaenopsoidea), associated with millipedes in Mexico. *Israel Journal of Zoology*, 39: 185–191.
- Jacot, A. P. 1936. Some rake-legged mites of the family Cheyletidae. *Journal of the New York Entomological Society*, 44: 17–30.
- Jacot, A. P. 1937. Journal of North-American Moss-Mites. *Journal of the New York Entomological Society*, 45: 353–375.
- Jackson, R. T. 1906. A new species of fossil *Limulus* from the Jurassic of Sweden. *Arkiv för Zoologi*, 3(11): 1–7.
- Jaekel, O. 1914. Ein großer *Pterygotus* aus dem rheinischen Unterdevon. *Palaeontologische Zeitschrift*, 1: 379–382.
- Jävi, T. H. 1912/14. Das Vaginalsystem der Sparassiden. *Annales Academiae Scientiarum Fennicae*, A4: 1–248.
- Jell, P. A. & Duncan, P. M. 1986. Invertebrates, mainly insects, from the freshwater Lower Cretaceous Koonwarra fossil bed (Korumburra Group), South Gippsland, Victoria. *Memoirs of the Association of Australian Palaeontology*, 3: 111–205.

- Jeram, A.J. 1994a. Scorpions from the Viséan of East Kirkton, West Lothian, Scotland, with a revision of the infraorder Mesoscorpionina. *Transactions of the Royal Society of Edinburgh: Earth Sciences*, 84: 283–299.
- Jeram, A.J. 1994b. Carboniferous Orthosterni and their relationship to living scorpions. *Palaeontology*, 37: 513–550.
- Jocqué, R. 1994. Halidae, a new spider family from Madagascar (Araneae). *Bulletin of the British arachnological Society*, 9: 281–289.
- Jocqué, R. 2001. Chummidae, a new spider family (Arachnida, Araneae) from South Africa. *Journal of Zoology, London*, 254: 481–493.
- Jones, T. R. & Woodward, H. 1888. On some Scandanavian Phyllocarida. *Geological Magazine, New Series, Decade 3*, 5: 145–150.
- Jones, T. R. & Woodward, H. 1899. Contributions to fossil Crustacea. *Geological Magazine, New Series, Decade 4*, 6: 388–395.
- Jordan, H. & Meyer, H. von 1854. Ueber die Crustaceen der Steinkohlenformation von Saarbrücken. *Palaeontographica*, 4: 1–15.
- Judson, M. [L. I.] 2003. Baltic amber pseudoscorpions (Arachnida: Chelonethi): a new species of *Neobisium* (Neobisiidae) and the status of *Obisium rathkii* Koch and Berendt. *Geodiversitas*, 25: 445–450.
- Judson, M. L. I. 2007. First fossil record of the pseudoscorpion family Pseudochiridiidae (Arachnida, Chelonethi, Cheirioidea) from Dominican amber. *Zootaxa*, 1393: 45–51.
- Judson, M. L. I. 2009. Cheliferoid pseudoscorpions (Arachnida, Chelonethi) from the Lower Cretaceous of France. *Geodiversitas*, 31: 61–71.
- Judson, M. L. 2010. Redescription of *Chelifer eucarpus* Dalman (Arachnida, Chelonethi, Withiidae) and first records of pseudoscorpions in copal from Madagascar and Colombia. *Palaeodiversity*, 3: 33–42.
- Judson, M. L. I. 2016. Pseudoscorpions (Arachnida, Chelonethi) in Mexican amber, with a list of extant species associated with mangrove and *Hymenaea* trees in Chiapas. *Boletín de la Sociedad Geológica Mexicana*, 68: 57–79.
- Judson, M. L. I. & Mağol, J. 2009. A mite of the family Tanaupodidae (Arachnida, Acari, Parasitengona) from the Lower Cretaceous of France. *Geodiversitas*, 31: 41–47.
- Judson, M. [L. I.] & Wunderlich, J. 2003. Rhagidiidae (Acari, Eupodoidea) from Baltic amber. *Acta zoologica cracoviensis*, 46 (suppl.–Fossil Insects): 147–152.
- Jux, U. 1982. *Somaspidion hammapheron* n.gen. n.sp. – ein Arachnide aus dem Oberkarbon der subvaristischen Saumsenke NW Deutschlands. *Paläontologische Zeitschrift*, 56: 77–86.
- Kaddumi, H. F. 2007. *Amber of Jordan: the oldest prehistoric insects in fossilized resin. Second edition*. Eternal River Museum of Natural History, Amman, Jordan, 224 pp.

- Karg, W. 1965. Larvalsystematische und phylogenetische Untersuchung sowie Revision des Systems der Gamasina Leach, 1915 (Acarina, Parasitiformes). *Mitteilungen aus dem Zoologischen Museum Berlin*, 41, 193–340.
- Karg, W. 1978. Zur Kenntnis der Gattungen *Macrocheles* Latreille, 1829 und *Leptolaelaps* Berlese, 1918 (Acarina, Parasitiformes). *Zoologische Jahrbücher, Systematik*, 105, 360–367.
- Karpinen, E. & Koponen, M. 1973. The subfossil oribatid fauna of Piilonsuo, a bog in southern Finland. *Annales entomologici Fennici*, 39: 22–32.
- Karpinen, E. & Koponen, M. 1974. Further observations on subfossil remains of oribatids (Acar., Oribatei) and insects in Piilonsuo, a bog in southern Finland. *Annales entomologici Fennici*, 40: 172–175.
- Karpinen, E., Krivolutsky, D. A., Koponen, M., Kozlovskaja, L. S., Laskova, L. M. & Viitasaari, M. 1979. List of subfossil oribatid mites (Acarina, Oribatei) of northern Europe and Greenland. *Annales entomologici Fennici*, 45: 103–108.
- Karsch, F. 1879. Arachnologische Beiträge. *Zeitschrift für die gesammten Naturwissenschaften*, 52: 534–562.
- Karsch, F. 1880a. Arachnologische Blätter. I. Ueber *Corinna* (C. L. Koch) und ihre Verwandtschaften. *Zeitschrift für die gesammten Naturwissenschaften*, 53: 373–378.
- Karsch, F. 1880b. Arachnologische Blätter. X. Scorpionologische Fragmente. *Zeitschrift für die gesammten Naturwissenschaften*, 53: 404–409.
- Karsch, F. 1882. Ueber ein neues Spinnenthier aus der Schlesischen Steinkohle und die Arachnoiden überhaupt. *Zeitschrift der Deutschen geologischen Gesellschaft*, 34: 556–561.
- Karsch, F. 1884. Neue Milben in Bernstein. *Berliner Entomologische Zeitschrift*, 28: 175–176.
- Kaufuss, U., Lee, D., Bannister, J., Lindqvist, J., Mildenhall, D., Perrichot, V., Maraun, M. & Schmidt, A. 2011. Discovering the New Zealand amber forest biota. *Geological Society of New Zealand, Newsletter*, 2011(5): 20–25.
- Keegan, H. L., Yunker, C. E. & Baker, E. W. 1960. Malaysian parasites. XLVI. *Hystrichonyssus turneri*, n.sp. n.g. representing a new subfamily of Dermasyddidae (Acarina) from a Malayan porcupine. *Studies from the Institute for Medical Research Federation of Malaya*, 107: 455–473.
- Keferstein, C. 1834. *Die Naturgeschichte des Erdkörpers in ihren ersten Grundzügen*, Vol. 2. F. Fleischer, Leipzig, 896 pp.
- Keifer, H. H. 1966. [untitled.] *Californian Department of Agriculture. Eriophyid Series*, B-21: 1–20.
- Keirans, J. E., Lane, R. S. & Cauble, R. 2002. A series of larval *Amblyomma* species (Acari : Ixodidae) from amber deposits in the Dominican Republic. *International Journal of Acarology*, 28: 61–66.
- Kethley, J. B. 1974. Developmental chaetotaxy of a paedomorphic celaenopsoid, *Neotenogynium malkini* n.g., sp. (Acari: Parasitiformes: Neotenogyniidae, n. fam.) associated with millipedes. *Annals of the Entomological Society of America*, 67: 571–579.

- Kethley, J. B. 1977a. The Status of *Hybolicus* Berlese, 1913 and *Oehserchestes* Jacot, 1939 (Acari: Acariformes: Endeostigmata). *Fieldiana Zoology*, 72: 59–64.
- Kethley, J. B. 1977b. An unusual Parantennuloid, *Philodana johnstoni* n.g., n.sp. (Acari: Parasitiformes: Philodanidae, n. fam.) associated with *Neatus tenebrioides* (Coleoptera: Tenebrionidae) in North America. *Annals of the Entomological Society of America*, 70: 487–494.
- Kethley, J. B. 1979. A cladistic analysis of the Trigynaspida (Acari: Parasitiformes) with a review of the higher categories and nominate taxa. In Piffel, E. (ed). *Proceedings of the 4th International Congress of Acarology – Saalfelden (Austria)*. Akadémiai Kiadó, Budapest, pp. 459–466.
- Kethley, J. B. 1989. Proteonematolycidae (Acari: Acariformes), a new mite family from fore-dune sand of Lake Michigan. *International Journal of Acarology*, 15: 209–217.
- Kethley, J. B., Norton, R. A., Bonamo, P. M. & Shear, W. A. 1989. A terrestrial alicorhagiid mite (Acari: Acariformes) from the Devonian of New York. *Micropaleontology*, 35: 367–373.
- Kew, H. W. 1911. A synopsis of the false scorpions of Britain and Ireland. *Proceedings of the Royal Irish Academy (B)*, 29: 38–64.
- Keyserling, E. 1877. Ueber amerikanische Spinnenarten der Unterordnung Citigradae. *Verhandlungen der Zoologisch-Biologischen Gesellschaft in Wien*, 26: 609–708.
- Keyserling, E. 1880a. *Die Spinnen Amerikas, I. Laterigradae*. Nürnberg, 1, 283 pp.
- Keyserling, E. 1880b. Neue Spinnen aus Amerika. I. *Verhandlungen der Zoologisch-Biologischen Gesellschaft in Wien*, 29: 293–349.
- Keyserling, E. 1882. Neue Spinnen aus Amerika. III. *Verhandlungen der Zoologisch-Biologischen Gesellschaft in Wien*, 31: 269–314.
- Keyserling, E. 1884. *Die Spinnen Amerikas. Theridiidae*. Nürnberg, 2, 222 pp.
- Khaustov A. A. 2000. Bembidiacaridae, a new family of mites (Acari: Heterostigmata) associated with carabid beetles of the genus *Bembidion* (Coleoptera: Carabidae). *Acarina*, 8: 3–8.
- Khaustov, A. A. & Perkovsky, E. E. 2010. The first fossil record of mites of the family Pyemotidae (Acari: Heterostigmata), with description of a new species from Rovno Amber. *Palaeontological Journal*, 44: 418–421.
- Khaustov, A. A. & Poinar jr., G. O. 2010. *Protoresinacarus brevipedis* gen. n., sp. n. from Early Cretaceous Burmese amber: the first fossil record of mites of the family Resinacaridae (Acari: Heterostigmata: Pyemotoidea). *Historical Biology*: 23: 219–222.
- Khaustov A. A., Sergeyenko A. L. & Perkovsky E. E. 2014. First fossil record of mites of the family Tuckerellidae (Acari: Tetranychoida) from Rovno amber with description of a new species. *International Journal of Acarology*, 40: 367–369.
- Kirchner, H. 1923. *Limulus Sandbergi* n. sp. aus dem fränkischen oberen Buntsandstein (Plattensandstein). *Centralblatt für Mineralogie, Geologie und Paläontologie*, 20: 634–639.

- Kim, C. M. 2008. Euphysalozzerconidae, a new mesostigmatid mite family (Acari: Mesostigmata: Trigynaspida: Aenictequoidea). *Acarologia*, 48: 33–38.
- Kim, J.-p. & Nam, K.-s. 2008. [Mesozoic spider (Araneae: Pisauridae) from Korea.] *Korean Arachnology*, 24: 119–125. [in Korean with English summary]
- Kim, J.-p. & Nam, K.-s. 2008. [Mesozoic spider (Aranea: Lycosidae) from China.] *Korean Arachnology*, 28: 35–45. [in Korean with English summary]
- Kin, A. & Błazejowski, B. 2014. The horseshoe crab of the genus *Limulus*: living fossil or stabilomorph? *PLoS ONE*, 9(10): e108036.
- Kishida, K. 1930. A new scheme of classification of spider families and genera. *Lansania*, 2: 33–43.
- Kjellesvig-Waering, E. N. 1934. Note on a new eurypterid from the Moscow Shales of New York. *American Journal of Science*, 5th Series, 27: 386–387.
- Kjellesvig-Waering, E. N. 1948a. Two new eurypterids from the Silurian of Indiana. *Journal of Paleontology*, 22: 465–472.
- Kjellesvig-Waering, E. N. 1948b. The Mazon Creek Eurypterid: A revision of the genus *Lepidoderma*. *Scientific Papers, Illinois*, 3(4): 1–48.
- Kjellesvig-Waering, 1950a. A new Silurian Hughmilleria from West Virginia. *Journal of Paleontology*, 24: 226–228.
- Kjellesvig-Waering, 1950b. A new Silurian Eurypterid from Florida. *Journal of Paleontology*, 24: 229–231.
- Kjellesvig-Waering, E. N. 1951. Downtonian (Silurian) Eurypterida from Perton, near Stoke Edith, Herefordshire. *Geological Magazine*, 88: 1–24.
- Kjellesvig-Waering, E. N. 1954. Note on a new Silurian (Downtonian) scorpion from Shropshire, England. *Journal of Palaeontology*, 28: 485–486.
- Kjellesvig-Waering, E. N. 1955. A new phyllocarid and eurypterid from the Silurian of Florida. *Journal of Paleontology*, 29: 295–297.
- Kjellesvig-Waering, E. N. 1958. The genera, species and subspecies of the family Eurypteridae Burmeister, 1845. *Journal of Paleontology*, 32: 1107–1148.
- Kjellesvig-Waering, E. N. 1959. A taxonomic review of some late Paleozoic Eurypterida. *Journal of Palaeontology*, 33: 251–256.
- Kjellesvig-Waering, E. N. 1961a. Eurypterida of the Devonian Holland Quarry Shale of Ohio. *Fieldiana, Geology*, 14(5): 79–98.
- Kjellesvig-Waering, E. N. 1961b. The Silurian Eurypterida of the Welsh Boderland. *Journal of Paleontology*, 35: 251–256.
- Kjellesvig-Waering, E. N. 1963a. Revision of some Upper Devonian Stylonuridae (Eurypterida) from New York and Pennsylvania. *Journal of Paleontology*, 37: 490–495.
- Kjellesvig-Waering, E. N. 1963b. Pennsylvanian invertebrates of the Mazon Creek area, Illinois, Eurypterida. *Fieldiana, Geology*, 14(9): 169–197.

- Kjellesvig-Waering, E. N. 1964a. A synopsis of the Family Pterygotidae Clarke and Ruedemann 1912 (Eurypterida). *Journal of Paleontology*, 38: 331–361.
- Kjellesvig-Waering, E. N. 1964b. Eurypterida: Notes on the subgenus *Hughmilleria* (*Nanahughmilleria*) from the Silurian of New York. *Journal of Paleontology*, 38: 410–412.
- Kjellesvig-Waering, E. N. 1966b. Silurian scorpions of New York. *Journal of Paleontology*, 40: 359–375.
- Kjellesvig-Waering, E. N. 1966c. The scorpions of Trinidad and Tobago. *Caribbean Science*, 6: 123–135.
- Kjellesvig-Waering, E. N. 1969. A new phalangiotarbid (Arachnida) from the Pennsylvanian of Oklahoma. *Journal of Paleontology*, 43: 1280–1282.
- Kjellesvig-Waering, E. N. 1971. A new Downtonian stylonurid from Central England (Silurian, Eurypterida). *Journal of Paleontology*, 45: 538–539.
- Kjellesvig-Waering, E. N. 1972. *Brontoscorpius anglicus*: a giant Lower Palaeozoic scorpion from central England. *Journal of Paleontology*, 46: 39–42.
- Kjellesvig-Waering, E. N. 1973. A new Silurian *Slimonia* (Eurypterida) from Bolivia. *Journal of Paleontology*, 47: 549–550.
- Kjellesvig-Waering, E. N. 1979. Eurypterids. In Jaanusson, V., Laufeld, S. & Skoglund, R. (eds). Lower Wenlock faunal and floral dynamics – Vattenfallet section, Gotland. *Sveriges Geologiska Undersökning, Serie C, NR 762, Årsbok 73 NR, 3*: 121–136.
- Kjellesvig-Waering, E. N. 1986. A restudy of the fossil Scorpionida of the world. *Palaeontographica Americana*, 55: 1–287.
- Kjellesvig-Waering, E. N. & Caster, K. E. 1955. The Pterygotidae of the Silurian Vernon Shales of New York. *Journal of Paleontology*, 29: 1041–1047.
- Kjellesvig-Waering, E. N. & Heubusch, C. A. 1962. Some Eurypterida from the Ordovician and Silurian of New York. *Journal of Paleontology*, 36: 211–221.
- Kjellesvig-Waering, E. N. & Leutze, W. P. 1966. Eurypterida from the Silurian of West Virginia. *Journal of Paleontology*, 40: 1109–1122.
- Kjellesvig-Waering, E. N. & Størmer, L. 1952. The *Dolichopterus*–*Strobilopterus* group in the Eurypterida. *Journal of Palaeontology*, 26: 659–661.
- Klompen, H. & Grimaldi, D. 2001. First Mesozoic record of a parasitiform mite: a larval argasid tick in Cretaceous amber (Acari: Ixodida: Argasidae). *Annals of the Entomological Society of America*, 94: 10–15.
- Kobayashi, T. 1933. On the occurrence of Xiphosuran remains in Chosen (Korea). *Japanese Journal of Geology and Geography*, 10: 175–182.
- Koçak, A. Ö. & Kemal, M. 2008. New synonyms and replacement names in the genus group taxa of Araneida. *Centre for entomological Studies, Miscellaneous Papers*, 139–140: 1–4.
- Koch, C. L. 1829–1844. Arachniden. In Panzer (ed). *Faunae Insectorum Germaniae initia. Fortgesetzt von Herrich-Schäffer, Hefte 111-190*. Regensburg. [1833, Hefte 119–121]

- Koch, C. L. 1834. Arachniden. In Panzer (ed). *Faunae Insectorum Germaniae initia. Hefte 122-125*, 127. Regensburg.
- Koch, C. L. 1837. *Uebersicht des Arachnidensystems 1*. C. H. Zeh'sche Buchhandlung, Nürnberg, 39 pp.
- Koch, C. L. 1839a. *Uebersicht des Arachnidensystems 2*. C. H. Zeh'sche Buchhandlung, Nürnberg, 38 pp.
- Koch, C. L. 1839b. *Die Arachniden. Getreu nach der Natur abgebildet und beschrieben. Sechster Band*. C. H. Zeh'sche Buchhandlung, Nürnberg, 156 pp.
- Koch, C. L. 1839c. *Deutschlands Crustaceen, Myriapoden und Arachniden*. Hefte 23–30.
- Koch, C. L. 1842a. *Die Arachniden. Getreu nach der Natur abgebildet und beschrieben. Neunter Band*. C. H. Zeh'sche Buchhandlung, Nürnberg, 108 pp.
- Koch, C. L. 1842b. *Uebersicht des Arachnidensystems 3*. C. H. Zeh'sche Buchhandlung, Nürnberg, 130 pp.
- Koch, C. L. 1843a. *Die Arachniden. Getreu nach der Natur abgebildet und beschrieben. Zehnter Band*. C. H. Zeh'sche Buchhandlung, Nürnberg, 142 pp.
- Koch, C. L. 1843b. *Uebersicht des Arachnidensystems 3*. C. H. Zeh'sche Buchhandlung, Nürnberg, 130 pp [continuation of 1842b; see above].
- Koch, C. L. 1844. Systematische Übersicht über die Ordnung der Zecken. *Archiv für Naturgeschichte*, 1: 217–239.
- Koch, C. L. 1846. *Die Arachniden. Getreu nach der Natur abgebildet und beschrieben. Dreizehnter Band*. C. H. Zeh'sche Buchhandlung, Nürnberg, 234 pp.
- Koch, C. L. 1847. *Die Arachniden. Getreu nach der Natur abgebildet und beschrieben. Vierzehnter Band*. C. H. Zeh'sche Buchhandlung, Nürnberg, 210 pp.
- Koch, C. L. 1851. *Übersicht des Arachnidensystems 5*. C. H. Zeh'sche Buchhandlung, Nürnberg, 104 pp.
- Koch, C. L. & Berendt, G. C. 1854. Die im Bernstein befindlichen Myriapoden, Arachniden und Apteren der Vorwelt. In Berendt, G. C. *Die in Bernstein befindlichen organischen Reste der Vorwelt gesammelt in Verbindung mit mehreren bearbeitet und herausgegeben 1*. Berlin, Nicolai, 124 pp.
- Koch, L. 1866. *Die Arachniden-Familie der Drassiden. 1–6*. J. L. Lotzbeck, Nürnberg, 352 pp.
- Koch, L. 1871–1883. *Die Arachniden Australiens nach der Natur beschrieben und abgebildet*. Bauer & Raspe, Nürnberg, 1489 pp.
- Koch, L. 1873. *Uebersichtliche Darstellung der europäischen Chernetiden (Pseudoscorpione)*. Bauer und Raspe, Nürnberg, xx pp.
- Konikiewicz, M & Małol, J. 2014. A fossil Paratrombiinae mite (Actinotrichida: Trombidioidea) from the Rovno amber, Ukraine. *Zootaxa*, 3847: 583–589.
- Kraepelin, K. 1899. Zur Systematik der Solifugen. *Mitteilungen aus dem Naturhistorischen Museum in Hamburg*, 16: 195–258.
- Kraepelin, K. 1901. Palpigradi und Solifugae. *Tierreich*, 12: i–x, 1–159.

- Kraepelin, K. 1905. Die geographische Verbreitung der Skorpione. - *Zoologische Jahrbücher, Abtheilung für Systematik*, 22: 321–364.
- Kramer, P. 1879. Neue Acariden. *Archiv für Naturgeschichte*, 45: 13–16.
- Kramer, P. 1885. Ueber Halarachne Halichoeri, Allm. *Zeitschrift für Naturwissenschaften*, 58: 1–31.
- Krause, T., Hauschke, N. & Wilde, V. 2009. Ein Limulide aus den Gelben Basisschichten des Oberen Muschelkalks von Ohrdruf bei Gotha (Thüringen). *Geowissenschaftliche Mitteilungen von Thüringen*, 13: 163–168.
- Kratochvíl, J. 1958. Höhlenweberknechte Bulgariens (Palpatores – Nemastomatidae). *Acta Academiae Scientiarum Čechoslovenicae Basis Brunensis*, 30: 523–576.
- Križnar, M. & Hitij, T. 2010. Nevretenčarji (Invertebrates) Strelovške formacije. *Scopolia*, Suppl. 5: 91–107.
- Krivolutsky, D. A. & Krasilov, B. A. 1977. Oribatid mites from Upper Jura deposits of USSR. 16–24. In Skarlato, O. A. & Balashov, Y. S. (eds) *Morphology and Diagnostics of Mites*. Zoological Institute, Leningrad, 85 pp. [in Russian]
- Krüger, J. & Dunlop, J. A. 2010. Schizomids (Arachnida: Schizomida) from Dominican Republic amber. *Alavesia*, 3: 43–53.
- Kues, B. S. & Kietzke, K. K. 1981. A large assemblage of a new eurypterids from the Red Tanks Member, Madera Formation (Late Pennsylvania - Early Permian) of New Mexico. *Journal of Paleontology*, 55: 709–729.
- Kühl, G. & Lourenço, W. 2017. A new genus and species of fossil scorpion (?Euscorpidae) from the Early–Middle Eocene of Pesciara (Bolca, Italy). *Paläontologische Zeitschrift*, 91: 283–290.
- Kühl, G., Poschmann, M. & Rust, J. 2013. A ten-legged sea spider (Arthropoda: Pycnogonida) from the Lower Devonian Hunsrück Slate (Germany). *Geological Magazine*, 150: 556–564.
- Kühl, G., Bergamnn, A., Dunlop, J. A., Garwood, R. J. & Rust, J. 2012. Redescription and palaeobiology of *Palaeoscorpis devonicus* Lehmann, 1944 from the Lower Devonian Hunsrück Slate of Germany. *Palaentology*, 55: 775–787.
- Kulczynski, L. 1902. Species Oribatinarum (Oudms.) (Damaeinarum Michael) in Galicia collectae. *Dissertationum mathematicarum et physicarum Academiae Litterarum Cracoviensis*, 42: 1–50.
- Kulicka, R. 1990. The list of animal inclusions in Baltic amber from collection of the Museum of Earth in Warsaw. *Prace Muzeum Ziemi*, 41: 144–146.
- Kumar, P. 2004. Antiquity of Phthiraptera: fossil evidence. *Journal of the Paleontological Society of India*, 49: 159–168.
- Kumar, P. & Kumar, P. 1999. Insect remains from the Upper Triassic sediments of Satpura Basin, India. *Current Science*, 76: 1539–1541.
- Kury, A. B. 2003. Annotated catalogue of the Laniatores of the New World (Arachnida, Opiliones). *Revista Ibérica de Aracnología*, Volumen especial monográfico 1: 1–337.

- Kury, A. B. & Pérez González, A. 2002. A new family of Laniatores from northwestern South America (Arachnida, Opiliones). *Revista Ibérica de Aracnología*, 6: 3–11.
- Kušta, J. 1883. *Anthracomartus krejci*, eine neue Arachnide aus dem Böhmischem Karbon. *Sitzungsberichte der Königlich Böhmischem Gesellschaft der Wissenschaften, Mathematisch-Naturwissenschaftliche Klasse*, 1883: 7.
- Kušta, J. 1884a. Neue Arachniden aus der Steinkohlenformation von Rakonitz. *Sitzungsberichte der Königlich Böhmischem Gesellschaft der Wissenschaften, Mathematisch-Naturwissenschaftliche Klasse*, 1884: 398–401.
- Kušta, J. 1884b. *Thelyphonus bohemicus* n. sp., ein fossiler Geisselscorpion aus der Steinkohlenformation von Rakonitz. *Sitzungsberichte der Königlich Böhmischem Gesellschaft der Wissenschaften, Mathematisch-Naturwissenschaftliche Klasse*, 1884: 186–191.
- Kušta, J. 1885. Neue fossile Arthropoden aus dem Noeggarathienschiefer von Rakonitz. *Sitzungsberichte der Königlich Böhmischem Gesellschaft der Wissenschaften, Mathematisch-Naturwissenschaftliche Klasse*, 1885: 1–7.
- Kušta, J. 1888. O nových arachnidech z karbonu Rakovnického. (Neue Arachniden aus der Steinkohlenformation bei Rakonitz). *Sitzungsberichte der Königlich Böhmischem Gesellschaft der Wissenschaften, Mathematisch-Naturwissenschaftliche Klasse*, 1888: 194–208.
- Kutorga, S. 1838. *Beitrag zur Kenntnis der organischen Überreste des Kupfersandsteins am westlichen Abhange des Urals*. St. Petersburg, 38 pp.
- Kuznetsov, N. N., Khaustov, A. A. & Perkovsky, E. E. 2010. First record of mites of the family Stigmaeidae (Acari, Raphignathoidea) from Rovno amber with description of a new species of the genus *Mediolata*. *Vestnik zoologii*, 44: 545–547.
- Lamarck, J. B. P. A. 1801. *Système des animaux sans vertèbres*. Lamarck and Deterville, Paris, xx pp.
- Lamont, A. 1955. Scottish Silurian Chelicerata. *Transactions of the Edinburgh Geological Society*, 16: 200–216.
- Lamsdell, J. C. 2011. The eurypterid *Stoermeropterus conicus* from the Lower Silurian of the Pentland Hills, Scotland. *Monographs of the Palaeontographical Society*, 165: 1–84.
- Lamsdell, J. C. 2012. Redescription of *Drepanopterus pentlandicus* Laurie, 1892, the earliest known mycteropoid (Chelicerata: Eurypterida) from the early Silurian (Llandovery) of the Pentland Hills, Scotland. *Earth and Environmental Science Transactions of the Royal Society of Edinburgh*, 103: 77–103.
- Lamsdell, J. C. 2013a. Revised systematics of the Palaeozoic 'horseshoe crabs' and the myth of the monophyletic Xiphosura. *Zoological Journal of the Linnaen Society*, 167: 1–27.
- Lamsdell, J. C. 2013b. Redescription of *Drepanopterus pentlandicus* Laurie, 1892, the earliest known mycteropoid (Chelicerata: Eurypterida) from the early Silurian (Llandovery) of the Pentland Hills, Scotland. *Earth and Environmental Science Transactions of the Royal Society of Edinburgh*, 103: 77–103.

- Lamsdell, J. C. & Selden, P. A. 2013. Babes in the wood – a unique window into sea scorpion ontogeny. *BMC Evolutionary Biology* 13: 98.
- Lamsdell, J. C., Braddy, S. J. & Tetlie, O. E. 2010. The systematics and phylogeny of the Stylonurina (Arthropoda: Chelicerata: Eurypterida). *Journal of Systematic Palaeontology*, 8: 49–61.
- Lamsdell, J. C., Hoşgör, İ & Selden, P. A. 2013. A new Ordovician eurypterid (Arthropoda: Chelicerata) from southeast Turkey: evidence for a cryptic Ordovician record of Eurypterida. *Gondwana Research*, 23: 354–366.
- Lamsdell, J. C., Simonetta, L. & Selden, P. A. 2013. First eurypterid from Italy: a new species of *Adelophthalmus* (Chelicerata: Eurypterida) from the Upper Carboniferous of the Carnic Alps (Friuli, NE Italy). *Revista Italiana di Paleontologia et Stratigrafia*, 119: 147–151.
- Lamsdell, J. C., Xue, J.-h. & Selden, P. A. 2013. A horseshoe crab (Arthropoda: Chelicerata: Xiphosura) from the Lower Devonian (Lochkovian) of Yunnan, China. *Geological Magazine*, 150: 367–370.
- Lamsdell, J. C., Braddy, S. J., Loeffler, E. J. & Dineley, D. L. 2010. Early Devonian stylonurine eurypterids from Arctic Canada. *Canadian Journal of Earth Sciences*, 47: 1405–1415.
- Lane, R. S. & Poinar jr., G. O. 1986. First fossil tick (Acari: Ixodidae) in new world amber. *International Journal of Acarology*, 12: 75–78.
- Latreille, P. A. 1795. Observations sur la variété des organes de la bouche des tiques, et distribution méthodique des insectes de cette famille d'après les caractères établis sur la conformation de ces organes. *Magasin Encyclopédique, ou Journal des Sciences, des Lettres et des Arts*, 4: 15–20.
- Latreille, P. A. 1796. *Précis de caractères génériques des insectes, disposés dans un ordre naturel*. Prévot, Paris, xx pp.
- Latreille, P. A. 1802. *Histoire naturelle, générale et particulière, des Crustacés et des Insectes*. Dufart, Paris, xx pp.
- Latreille, P. A. 1804a. Tableau méthodique des Insectes. *Nouveau Dictionnaire d'histoire naturelle*, 24: 129–200.
- Latreille, P. A. 1804b. *Histoire naturelle, générale et particulière, des Crustacés et des Insectes, Vol. 7*. F. Dufart, Paris, pp. 144–305.
- Latreille, P. A. 1806. *Genera Crustaceorum et Insectorum. Vol. 1*. A. Koenig, Paris, pp. 82–127.
- Latreille, P. A. 1809. *Genera Crustaceorum et Insectorum. Vol. 4*. Paris, pp. 73–371.
- Latreille, P. A. 1810. *Considérations générales sur l'Ordre Naturel des Animaux composant les Classes des Crustacés, des Arachnides et des Insectes*. Paris, 446 pp.
- Latreille, P. A. 1819. [Articles sur les Araignées]. *Nouveau Dictionnaire d'histoire naturelle* 30-35 : ?? pp.
- Latreille, P. A. 1829. Les Arachnides. In Cuvier, G (ed.) *Le règne animal, nouv. ed.* Paris, pp. 206–291.
- Laurentiaux-Viera, F. & Laurentiaux, D. 1961. *Prothelyphonus neerlandicus*, nov. sp., Uropyge du Westphalien du Limbourg Hollandais. *Mededelingen van de Geologische Stichting, N.S.*, 13: 29–34.

- Laurentiaux-Viera, F. & Laurentiaux, D. 1963. Sur quelques restes nouveaux d'Arachnides du terrain houiller. *Annales de la Société Géologique du Nord*, 83: 23–29.
- Laurie, M. 1892. On some eurypterid remains from the Upper Silurian rocks of the Pentland Hills. *Transactions of the Royal Society of Edinburgh*, 37: 151–162.
- Laurie, M. 1896. Further notes on the anatomy and development of scorpions, and their bearing on the classification of the order. *Annals and Magazine of Natural History, series 6*, 17: 185–193.
- Laurie, M. 1899. On a Silurian scorpion and some additional eurypterid remain from the Pentland Hills. *Transactions of the Royal Society of Edinburgh*, 39: 575–590.
- Lawrence, R. F. 1931. The harvest-spiders (Opiliones) of South Africa. *Annals of the South African Museum*, 29: 341–508.
- Leach, W. E. 1815. A tabular view of the external characters of four classes of animals which Linné arranged under Insecta; with the distribution of the genera composing three of these classes into orders, andc. And descriptions of several new genera and species. *Transactions of the Linnean Society of London*, 11: 306–400.
- Leach, W. E. 1819. *Dictionnaire des Sciences Naturelles, Vol. 14*. Paris, pp. 537–538.
- Leary, R.L. 1980. *Labriscorpio alliedensis*, a new Carboniferous scorpion from Rock Island County, Illinois. *Journal of Paleontology*, 54: 1255–1257.
- Lee, D.C. 1985. Sarcoptiformes (Acari) of South Australian soils. 4. Primitive oribate mites (Cryptostigmata) with an extensive unfissured hysteronotal shield and aptychoid. *Records of the South Australian Museum*, 19: 39–68.
- Leech, R. & Matthews Jr., J. V. 1971. *Xysticus archaeopalpus* (Arachnida: Thomisidae), a new species of crab spider from Pliocene sediments in western Alaska. *Canadian Entomologist*, 103: 1337–1340.
- Legg, D. A. 2014. *Sanctacaris uncata*: the oldest chelicerate (Arthropoda). *Naturwissenschaften*, 101: 1065–1073.
- Lehmann, W.M. 1944. *Palaeoscorpius devonicus* n. g., n. sp., ein Skorpion aus dem rheinischen Unterdevon. *Neues Jahrbuch für Paläontologie, Monatshefte, B*: 177–185.
- Lehtinen, P. T. 1967. Classification of the cribellate spiders and some allied families, with notes on the evolution of the suborder Araneomorpha. *Annales Zoologici Fennici*, 4: 199–468.
- Lehtinen, P. T. 1981. New Holothyryna (Arachnida, Anactinotrichida) from New Guinea and South America. *Acarologia*, 22: 3–13.
- Lenz, H. 1886. Beiträge zur Kenntniss der Spinnenfauna Madagascars. *Zoologische Jahrbücher, Systematik*, 1: 379–408.
- Lerner, A. J., Lucas, S. G. & Lockley, M. 2017. First fossil horseshoe crab from the Triassic of North America. *Neues Jahrbuch für Geologie und Paläontologie, Abhandlungen*, 286/3: 289–302.
- Leutze, W. P. 1958. Eurypterids from the Silurian Tymochtee dolomite of Ohio. *Journal of Paleontology*, 32: 937–942.

- Leutze, W. P. 1961. Arthropods from the Syracuse Formation, Silurian of New York. *Journal of Paleontology*, 35: 49–64.
- Levy, G. 2007. The first troglobite scorpion from Israel and a new chactoid family (Arachnida: Scorpiones). *Zoology in the Middle East*, 40: 91–96.
- Li S.-q. & Wunderlich, J. 2008. Sinopimoidae, a new spider family from China (Arachnida, Araneae). *Acta zootaxonomica sinica*, 33: 1–6.
- Lin Q.-b., Zhang, Z.-f. & Wang, B.-z. 1989. New evidences for Miocene climatic optimum event—review on the Miocene spider fossils from Shanwang collection. *Proceedings of International Symposium on Pacific Neogene and Marine Events*. Nanjing University Press, pp. 137–147.
- Lin Q.-b., Yao Y.-m., Xiang W.-d. & Xia Y.-r. 1988. An Oligocene micropalaeontomofauna from Gubei district of Shandong and its ecological environment. *Acta Micropalaeontologica Sinica*, 5: 331–345.
- Lindquist E. E. & Krantz, G. W. 2002. Description of, and validation of names for, the genus *Crotalomorpha* and the family Crotalomorphidae (Acari: Heterostigmata). *Systematic & Applied Acarology*, 7: 129–142.
- Lindquist, E. E. & Moraza, M. L. 1993. Pyrosejidae, a new family of trigynaspid mites (Acari: Mesostigmata: Cercomegistina) from Middle America. *Acarologia*, 34: 283–307.
- Lindquist, E. E. & Palacios-Vargas, J. G. 1991. Proterorhagiidae (Acari: Endeostigmata), a new family of rhagidiid-like mites from Mexico. *Acarologia*, 32: 341–363.
- Lindquist, E. E., Kaliszewski, M. & Rack, G. 1990. Athyreacaridae, a new family of mites (Acari: Heterostigmata) associated with scarab beetles of the genus *Neoathyreus* (Coleoptera: Scarabaeidae). *Acarologia*, 31: 161–176.
- Linnaeus, C. 1758. *Systema naturae*, 10th edition. Vol 1. L. Salvii, Holmiae.
- Loman, J. C. C. 1900. Ueber die geographische Verbreitung der Opilioniden. *Zoologische Jahrbücher, Systematik*, 16: 71–104.
- Lourenço, W. R. 1995. Description de trois nouveaux genres et quatre nouvelles espèces de scorpions Buthidae de Madagascar. *Bulletin du Muséum National d'Histoire Naturelle (4)*, 17A: 95–106.
- Lourenço, W. R. 1996a. *Faune de Madagascar. 87. Scorpions (Chelicerata, Scorpiones)*. Muséum National d'Histoire Naturelle, Paris, 102 pp.
- Lourenço, W. R. 1996b. Premier cas connu d'un sub-fossile de scorpion dans le copal de Madagascar. *Compte Rendus de l'Académie des Sciences, Paris, Sér. Ila*, 323: 889–891.
- Lourenço, W. R. 1998. Panbiogeographie, les distributions disjointes et le concept de famille relictuelle chez les Scorpions. *Biogeographica*, 74: 133–144.
- Lourenço, W. R. 2000a. More about the Buthoidea of Madagascar, with special references to the genus *Tityobuthus* Pocock (Scorpiones, Buthidae). *Revue suisse de Zoologie*, 107: 721–736.

- Lourenço, W. R. 2000b. Premier cas d'un sub-fossile d'araignee appartenant au genre *Archaea* Koch and Berendt (Archaeidae) dans le copal de Madagascar. *Comptes rendus de l'Académie des Sciences Paris, Sciences de la Terre et des planets*, 330: 509–512.
- Lourenço, W. R. 2001. A remarkable scorpion fossil from the amber of Lebanon. Implications for the phylogeny of Buthoidea. *Comptes rendus de l'Académie des Sciences Paris, Sciences de la Terre et des planets*, 332: 641–646.
- Lourenço, W. R. 2002. The first scorpion fossil from the Cretaceous amber of Burmese (Burma). New implications for the phylogeny of Buthoidea. *Comptes Rendus Palevol*, 1: 97–101.
- Lourenço, W. R. 2003. The first scorpion fossil from the Cretaceous amber of France. New implications for the phylogeny of Chactioidea. *Comptes Rendus Palevol*, 2: 213–219.
- Lourenço, W. R. 2004. Description of a further species of fossil scorpion in Baltic amber. In Wunderlich, J. (ed.) *Beiträge zur Araneologie*, 3: 1886–1889.
- Lourenço, W. R. 2009a. A new sub-fossil scorpion of the genus *Microcharmus* Lourenço from Malagasy copal (Scorpiones, Microcharmidae). *Boletín Sociedad Entomológica Aragonesa*, 44: 135–137.
- Lourenço, W. R. 2009b. A new species of *Tityus* C. L. Koch, 1836 (subgenus *Brazilotityus* Lourenço, 2006) from the Dominican amber (Scorpiones: Buthidae). *Euscorpius*, 83: 1–5.
- Lourenço, W. R. 2012a. Further considerations on scorpions found in Baltic amber, with a description of a new species (Scorpiones: Buthidae). *Euscorpius*, 146: 1–7.
- Lourenço, W. R. 2012b. About the scorpion fossils from the Cretaceous amber of Burmese (Burma) with the descriptions of a new family, genus and species. *Acta Biológica Paranaense, Curitiba*, 41: 75–87.
- Lourenço, W. R. 2013a. A new species of *Tityus* C. L. Koch, 1836 (Scorpiones: Buthidae) from Dominican amber. *Euscorpius*, 156: 1–5.
- Lourenço, W. R. 2013b. A new species of *Chaerilobuthus* Lourenço & Beigel, 2011 from Cretaceous Burmese amber (Scorpiones: Chaerilobuthidae). *Acta Biológica Paranaense, Curitiba*, 42: 1–5.
- Lourenço, W. R. 2014. A new species of scorpion from Chiapas amber, Mexico (Scorpiones: Buthidae). *Revista Ibérica de Aracnología*, 24: 59–63.
- Lourenço, W. R. 2015a. A new subfamily, genus and species of fossil scorpions from Cretaceous Burmese amber (Scorpiones: Palaeoeuscorpiidae). In Wunderlich, J. (ed.) *Beiträge zur Araneologie*, 9: 457–464.
- Lourenço, W. R. 2015b. Clarification of the familiar status of the genus *Palaeoburmesebuthus* Lourenço, 2002 from Cretaceous Burmese amber (Scorpiones: Archaeobuthidae: Palaeoburmesebuthinae). In Wunderlich, J. (ed.) *Beiträge zur Araneologie*, 9: 465–475.
- Lourenço, W. R. 2015c. New contributions to the knowledge of Cretaceous Burmese amber scorpions: descriptions of two new species of *Betaburmesebuthus* Lourenço, 2015 (Scorpiones: Archaeobuthidae: Palaeoburmesebuthinae). *Revista Arachnologica Italiana*, 1(3): 27–36.

- Lourenço, W. R. 2015d. An unusual new species of *Chaerilobuthus* Lourenço & Beigel, 2011 (Scorpiones: Cherilobuthidae) from the Cretaceous amber of Myanmar (Birmanian). *Revista Aracnologica Italiana*, 1(5): 44–48.
- Lourenço, W. R. 2016a. A preliminary synopsis on amber scorpions with special reference to Burmite species: an extraordinary development of our knowledge in only 20 years. *ZooKeys*, 600: 75–87.
- Lourenço, W. R. 2016b. A new genus and three new species of scorpions from Cretaceous Burmese amber (Scorpiones: Chaerilobuthidae: Palaeoescorpiidae). *Arthropoda Selecta*, 25: 67–74.
- Lourenço, W. R. & Beigel, A. 2011. A new scorpion fossil from the Cretaceous amber of Myanmar (Burma). New phylogenetic implications. *Comptes Rendus Palevol*, 10: 635–639.
- Lourenço, W. R. & Beigel, A. 2015a. A new genus and species of Palaeoburmesebuthinae Lourenço, 2015 (Scorpiones: Archaeobuthidae) from Cretaceous amber of Burmese. In Wunderlich, J. (ed.) *Beiträge zur Araneologie*, 9: 476–480.
- Lourenço, W. R. & Gall, J.-C. 2004. Fossil scorpions from the Buntsandstein (Early Triassic) of France. *Comptes Rendus Palevol*, 3: 369–378.
- Lourenço, W. R. & Henderickx, H. 2012. Another new sub-fossil species of scorpion of the genus *Palaeogrosphus* Lourenço, 2000 from Malagasy copal (Scorpiones: Buthidae). *Euscorpius*, 137: 1–4.
- Lourenço, W. R. & Velten, J. 2015. Another new species of *Chaerilobuthus* Lourenço & Beigel, 2011 (Scorpiones: Chaerilobuthidae) from the Cretaceous amber of Myanmar (Burma). *Rivista Aracnologica Italiana*, 1(5): 2–8.
- Lourenço, W. R. & Velten, J. 2016. One more new species of *Betaburmesebuthus* Lourenço, 2015 (Scorpiones: Paleoburmesebuthinae) from Cretaceous burmite. *Rivista Aracnologica Italiana*, 2(6): 4–11.
- Lourenço, W. R. & Weitschat, W. 1996. More than 120 years after its description, the enigmatic status of the genus of the Baltic amber scorpion “*Tityus eogenus*” Menge, 1869 can finally be clarified. *Mitteilungen aus dem Geologisch-Paläontologischen Institut der Universität Hamburg*, 79: 183–188.
- Lourenço, W. R. & Weitschat, W. 2000. New fossil scorpions from the Baltic amber – implications for Cenozoic biodiversity. *Mitteilungen aus dem Geologisch-Paläontologischen Institut der Universität Hamburg*, 84: 247–260.
- Lourenço, W. R. & Weitschat, W. 2001. Description of another fossil scorpion from Baltic amber with considerations on the evolutionary levels of Cenozoic Buthoidea. *Mitteilungen aus dem Geologisch-Paläontologischen Institut der Universität Hamburg*, 85: 277–283.
- Lourenço, W. R. & Weitschat, W. 2005a. A new genus and species of fossil scorpion from a different kind of Baltic amber (Scorpiones, Buthidae). – *Mitteilungen aus dem Geologisch-Paläontologischen Institut der Universität Hamburg*, 89, 183–188.

- Lourenço, W. R. & Weitschat, W. 2005b. First sub-fossil scorpion of genus *Chactas* Gervais from Colombian copal (Scorpiones, Chactidae). *Mitteilungen aus dem Geologisch-Paläontologischen Institut der Universität Hamburg*, 89: 179–182.
- Lourenço, W. R. & Weitschat, W. 2009. A new species of *Palaeoananteris* Lourenço & Weitschat, 2001, fossil scorpion from Ukrainian amber (Scorpiones, Buthidae). *Boletín Sociedad Entomológica Aragonesa*, 45: 231–235.
- Lourenço, W. R., Henderickx, H. & Weitschat, W. 2005. A new genus and species of fossil scorpion from Baltic amber (Scorpiones, Buthidae). *Mitteilungen aus dem Geologisch-Paläontologischen Institut der Universität Hamburg*, 89: 159–166.
- Lucas, H. 1835. Sur une monographie du genre Thélyphone. *Magasin de Zoologie*, 5: Classe VIII, pls. 8–10.
- Lucas, H. 1846. Histoire naturelle des Animaux articulés. In *Exploration scientifique de l'Algérie pendant les années 1840, 1841, 1842, publiée par ordre du Gouvernement et avec le concours d'une commission académique. Sciences physiques, Zoologie, 5 tomes, Paris, 1846–1850*. Vol. 1: 89–271.
- Luxton, M. 1985. Cryptostigmata (Arachnida: Acari): a concise review. *Fauna of New Zealand*, 7: 1–112.
- Luxton, M. 1988. A new mite superfamily (Acari: Cryptostigmata). *Zoological Journal of the Linnean Society*, 93: 71–91.
- Lyubarsky, G. Y. & Perkovsky, E. E. 2012. The first Eocene species of the genus *Cryptophagus* (Coleoptera, Clavicornia, Cryptophagidae). *Vestnik zoologii*, 46: 36–40.
- MacLeay, W. S. 1839. On some new forms of Arachnida. *Annals and Magazine of Natural History*, 2: 1–14.
- Magowski, W. Ł. 1994. Discovery of the first representative of the mite subcohort Heterostigmata (Arachnida: Acari) in the Mesozoic Siberian amber. *Acarologia*, 35: 229–241.
- Magowski, W. Ł. 1995. Fossil heterostigmatid mites in amber – 85 million year-old an arthropod mite Relationships 53–58. in Kropczynska, D., Boczek, J. & Tomczyk, A. (eds) *The Acari: Physiological and Ecological Aspects of Acari – Host Relationships* Dabor, Warsaw, 698 pp.
- Malz, H. & Poschmann, M. 1993. Erste Süßwasser-Limuliden (Arthropoda, Chelicerata) aus dem Rotliegenden der Saar-Nahe-Senke. *Osnabrücker naturwissenschaftliche Mitteilungen*, 19: 21–24.
- Mahnert, V. 1979. Pseudoskopione (Arachnida) aus dem Amazonas-Gebiet (Brasilien). *Revue suisse de Zoologie*, 86: 719–810.
- Mahunka, S. 1970. Considerations of the systematics of the Tarsonemina and the description of new European taxa (Acari: Trombidiformes). *Acta Zoologica Academiae Scientiarum Hungaricae*, 16: 137–174.
- Mahunka S. 1975. Neue und auf Insekten lebende Milben aus Australien und Neu-Guinea (Acari: Acarida, Tarsonemida). *Annales Historico-Naturales Musei Nationalis Hungarici*, 67: 317–325.
- Mahunka, S. 1978. Schizoglyphidae fam. n. and new taxa of Acaridae and Anoetidae (Acari: Acarida). *Acta Zoologica Hungarica*, 24: 107–131.

- Mahunka, S. 1986. A survey of the family Carabodidae C. L. Koch, 1836 (Acari: Oribatida). *Acta Zoologica Hungarica*, 32: 73–135.
- Mahunka, S. 1987. Neue und interessante milben aus dem Genfer Museum LX. Oribatids from Sabah (East Malaysia). II. (Acari: Oribatida). *Revue suisse de Zoologie*, 94: 765–817.
- Mahunka, S. 1990. A survey of the superfamily Euphthiracaroida Jacot, 1930 (Acari: Oribatida). *Folia Entomologica Hungarica*, 51: 37–80.
- Mahunka, S. 1993. Oribatids from Madagascar I: (Acari: Oribatida). New and interesting mites from the Geneva Museum. LXXVI. *Revue suisse de Zoologie*, 100: 289–315.
- Mahunka, S. 1994. Oribatids from Madagascar II. (Acari: Oribatida). *Revue suisse de Zoologie*, 101: 47–88.
- Märkel, K. 1964. Die Euphthiracaridae Jacot, 1930, und ihre Gattungen (Acari, Oribatei). *Zoologische Verhandelingen*, 67: 1–78.
- Märkel, K. & Meyer, I. 1959. Zur Systematik der deutschen Euphthiracarini. *Zoologischer Anzeiger*, 163: 327–342.
- Marshall, D. J., Lamsdell, J. C., Shpinev, E. & Braddy, S. J. 2014. A diverse chasmataspimid (Arthropoda: Chelicerata) fauna from the Early Devonian (Lochkovian) of Siberia. *Palaeontology*, 57, 631–655.
- Martens, J. 1976. Genitalmorphologie, System und Phylogenie der Weberknechte (Arachnida: Opiliones). *Entomologica Germanica*, 3: 51–68.
- Martens, J. 1988. Fissiphallidae, a new family of South American laniatorean harvestmen (Arachnida: Opiliones). *Zeitschrift für zoologische Systematik und Evolutionsforschung*, 26: 114–127.
- Martin, W. 1809. *Petrificata Derbiensia* 1, Wigan, xx pp.
- Marusik, Y. M. & Penney, D. 2004. A survey of Baltic amber Theridiidae (Araneae) inclusions, with descriptions of six new species. In Logunov, D. V. & Penney, D (eds). *European Arachnology 2003 (Proceedings of the 21st European Colloquium of Arachnology, St.-Petersburg, 4–9 August 2003)*. *Arthropoda Selecta*, Special Issue No. 1: 201–208.
- Marx, G. 1888. On a new and interesting spider. *Entomologica Americana*, 4: 160–162.
- Marx, G. 1890a. Arachnida. In Howard, L. O. (ed.) *Scientific results of the explorations by the U. S. Fish Commission Steamer Albatross. No. V. – Annotated catalogue of the insects collected in 1887–'88. – Proceedings of the United States National Museum*, 12: 207–211.
- Marx, G. 1890b. Catalogue of the described Araneae of temperate North America. *Proceedings of the United States National Museum*, 12: 497–594.
- Matthew, G. F. 1888. On some remarkable organisms of the Silurian and Devonian rocks in Southern New Brunswick. *Transactions of the Royal Society of Canada*, 1888: 49–61.
- Matthew, G. F. 1895. Organic remains of the Little River Group, No. IV. *Transactions of the Royal Society of Canada*, 2nd Ser., 1: 273–279.
- McAlpine, J. F. & Martin, J. E. H. 1969. Canadian amber – a paleontological treasure chest. *Canadian Entomologist*, 101: 819–838.

- McCook, H. C. 1888. A new fossil spider, *Eoatypus woodwardii*. *Proceedings of the Academy of Natural Sciences of Philadelphia*, 1888: 200–202.
- Meek, F. B. 1867. Notes on a new genus of fossil Crustacea. *Geological Magazine, Decade 4*, **xx**: 320–321.
- Meek, F. B. & Worthen, A. H. 1865. Notice of some new types of organic remains from the Coal Measures of Illinois. *Proceedings of the Academy of Natural Sciences of Philadelphia*, 17: 41–45.
- Meek, F.B & Worthen, A.H. 1868a. Preliminary notice of a scorpion, a *Eurypterus*? and other fossils from the Coal Measures of Illinois and Iowa. *American Journal of Science and Arts, series 2*, 45: 25.
- Meek, F.B. & Worthen, A.H. 1868b. Palaeontology of Illinois. In *Geological Survey of Illinois*, 3: 289–565.
- Melander, A. L. 1903. Some additions to the Carboniferous terrestrial fauna of Illinois. *Journal of Geology*, 11: 178–198.
- Melendez, B. 1971. Un novel Eurypteride du Westphalien des Asturies (NW Espagne). In Krefeld (ed.) *Septieme Congres de Stratigraphie et de Geologie du Carbonifere*, 3: 415–417.
- Mello-Leitão, C. F. de 1932. Notas sobre as Micratheneas do Brasil. *Anais do Academia Brasileira dos Ciências*, 4: 73–97.
- Mello-Leitão, C. F. de 1937. Distribution et Phylogénie des Faucheurs Sud-Américains. *Proceedings of the 12th International Congress of Zoology, Lisbon*, 2(5): 1217–1228.
- Mello-Leitão, C. F. de 1940. Arañas de las islas Juan Fernandez, recogidas por el Señor R. Wagenknecht. *Revista Chilena de Historia Natural*, 44: 236–239.
- Menge, A. 1854. Footnotes in Koch, C. L. & Berendt, G. C. Die im Bernstein befindlichen Myriapoden, Arachniden und Apteren der Vorwelt. In Berendt, G. C. *Die in Bernstein befindlichen organischen Reste der Vorwelt gesammelt in verbindung mit mehreren bearbeitet und herausgegeben 1*. Berlin, Nicolai, 124 pp.
- Menge, A. 1855. Ueber die Scheerenspinnen, Chernetidae. *Neueste Schriften der Naturforschenden Gesellschaft*, 5: 1–43.
- Menge, A. 1856. Lebenszeichen vorweltlicher, im Bernstein eingeschlossener Thiere. *Programm der Petrischule zu Danzig*, 8: 32 pp.
- Menge, A. 1866. Preussische Spinnen. Erste Abtheilung. *Schriften der Naturforschenden Gesellschaft in Danzig (Neue Folge)*, 2: 1–152.
- Menge, A. 1868. Preussische Spinnen. II. Abtheilung. *Schriften der Naturforschenden Gesellschaft in Danzig (Neue Folge)*, 2: 153–218.
- Menge, A. 1869. Ueber einen Scorpion und zwei Spinnen im Bernstein. *Schriften der Naturforschenden Gesellschaft in Danzig (Neue Folge)*, 2: 1–9.
- Mesquita, M. V. 1996. *Cretaraneus matensnetoi* n.sp. (Araneoidea) da Formação Santana, Cretáceo Inferior da Bacia do Araripe. *Revista Universidade Guarulhos, Série Geociências*, 1(3): 24–31.
- Miko, L. 2015. Oribatid mite fossils from pre-Quaternary sediments in Slovenian caves III. Two new species of *Dissorhina* (Oppiidae) from the Pliocene. *Acarologia*, 55: 449–457.

- Miko, L. & Travé, J. 1996. Hungarobelbidae n.fam., with description of *Hungarobelba pyrenaica* n.sp. (Acarina, Oribatida). *Acarologia*, 37: 133–155.
- Miko, L., Mourek, J., Meleg, I. N. & Moldovan, O. T. 2012. Oribatid mite fossils from pre-Quaternary sediments in Slovenian caves I. Two new genera and two new species of the family Oppiidae from the Early Pleistocene. *Acta Musei Nationalis Pragae, Series B, Historia Naturalis*, 68: 23–34.
- Miko, L., Mourek, J., Meleg, I. N. & Moldovan, O. T. 2013. Oribatid mite fossils from pre-Quaternary sediments in Slovenian caves II. *Amiracarus pliocennatus* n.gen., n.sp. (Microzetidae) from Pliocene, with comments on the other species of the genus. *Zootaxa*, 3670, 557–578.
- Miller, S. A. 1874. Notes and descriptions of Cincinnati Group fossils. *Cincinnati Quarterly Journal of Science*, 1: 343–351.
- Miller, S. A. & Gurley, W. F. E. 1896. New species of Echinodermata and a new crustacean from the Palaeozoic rocks. *Illinois State Museum Natural History Bulletin*, 10: 1–91.
- Millot, J. 1947. Une araignée malgache énigmatique, *Gallieniella mygaloides* n. g., n. sp. *Bulletin du Muséum National d'Histoire Naturelle, 2^e Série*, 19: 158–160.
- Millot, J. 1948. Faits nouveaux concernant les *Archaea* [Aranéides]. *Mémoires de l'Institut Scientifique de Madagascar*, 1(A1): 3–14.
- Mitov, P. G., Dunlop, J. A. & Penney, D. 2015. A new species of *Lacinius* in amber (Arachnida: Opiliones). *Fossil Record*, 18: 37–42.
- Moberg, J. C. 1892. Om en nyupptäckt fauna i block af kambrisk sandsten, insamlade af Dr N.O. Holst. *Geologiska Föreningens i Stockholm Förhandlingar*, 14: 103–120.
- Moore, J. I. 1923. A review of the present knowledge of fossil scorpions, with the description of a new species from the Pottsville Formation of Clay County, Indiana. *Proceedings of the Indiana Academy of Science*, 38: 125–134.
- Moore, R. A., McKenzie, S. C. & Lieberman, B. S. 2007. A Carboniferous synziphosurine (Xiphosura) from the Bear Gulch Limestone, Montana, USA. *Palaeontology*, 50: 1013–1019.
- Moore, R. A., Briggs, D. E. G., Braddy, S. J. & Shultz, J. W. 2011. Synziphosurines (Xiphosura: Chelicerata) from the Silurian of Iowa. *Journal of Paleontology*, 85: 83–91.
- Moore, R. A., McKenzie, S. C., Braddy, S. J., Anderson, L. I., Mikulic, D. G. & Kluessendorf, J. 2005. A new synziphosurine (Chelicerata: Xiphosura) from the Late Llandovery (Silurian) Waukesha Lagerstätte, Wisconsin, USA. *Journal of Paleontology*, 79: 242–250.
- Moran, R. J. 1986. The Sternodidae (Araneae, Araneomorpha), a new family of spiders from eastern Australia. *Bulletin of the British Arachnological Society*, 7: 87–96.
- Moraza, M. L. & Lindquist, E. E. 1999. Coprozerconidae, a new family of zerconoid mites from North America (Acari: Mesostigmata: Zerconoidea). *Acarologia*, 39: 291–313

- Müller, O. F. 1785. *Entomotraca, seu, Insecta testacea quae in aquis Daniae et Norvegiae reperit, descripsit et iconibus illustravit*. Hauniae, Thiele, xx pp.
- Müller, A. H. 1957. Ein Arachnidenrest (*Brachylycosa ? manebachensis* n. sp.) aus dem Unteren Rotliegenden (Manebacher Schichten) von Thüringen. *Geologie*, 6: 95–98.
- Münster, G. Graf zu 1839. Die Rhyncholiten des Muschelkalks mit ihrem Fortsätzen. In Münster, G. Graf zu (ed.) *Beiträge zur Petrefacten-Kunde 1*: 48–51.
- Münster, G. Graf zu 1840. Über die fossilen Arten *Limulus* in den lithographischen Schiefen von Bayern. In Münster, G. Graf zu (ed.) *Beiträge zur Petrefacten-Kunde 3*: 26–27.
- Murdoch, J.B. 1893. Proceedings for Session 1890–91. *Transactions of the Geological Society of Glasgow*, 9: 414–422.
- Murray, A. 1877. *Economic Entomology, Aptera*. South Kensington Museum Handbooks, 433 pp.
- Nalepa, A. 1898. Eriophyidae (Phytoptidae). In *Das Tierreich. Eine Zusammenstellung und Kennzeichnung der rezenten Tierformen. 4. Lieferung. Acarina*. Deutsche Zoologische Gesellschaft, 4: 72 pp.
- Nicolet, H. 1855. Histoire naturelle des Acariens qui se trouvent aux environs de Paris. *Archives de Museum Nationale d'Histoire Naturelle de Paris*, 7: 381–482.
- Niedbala, W. 1984. Mesoplophoridae (Acari, Oribatida). Changement du système et redescription d'espèces-types. *Bulletin of the Polish Academy of Sciences, Biological Sciences*, 32: 137–155.
- Niedbala, W. 1986. Système des Phthiracaroida (Oribatida, Euptyctima). *Acarologia*, 27: 61–84.
- Nieszkowski, J. 1859. Zusätze zur Monographie der Trilobiten der Ostseeprovinzen, nebst der Beschreibung einiger neuen obersilurischen Crustaceen. *Archiv für die Naturkunde Liv., Ehst.- und Kurlands (Ser. 1)*, 1: 345–384.
- Nindel, F. 1955. Die tierischen Reste aus dem Karbon von Karl-Marx-Stadt und Hainichen i.S. *Geologie*, 4: 673–694.
- Nishikawa, Y. 1974. [Amber spiders from Mizunami, Japan.] *Bulletin of the Mizunami Fossil Museum*, 1: 401–406.
[in Japanese with English summary]
- Norton, R. A. 1975. Elliptochthoniidae, a New Mite Family (Acarina: Oribatei) from Mineral Soil in California. *Journal of the New York Entomological Society*, 83: 209–216.
- Norton, R. A. 2006. First record of *Collohmannia* (*C. schusteri* n. sp.) and *Hermannia* (*H. sellnicki* n. sp.) from Baltic amber, with notes on Sellnick's genera of fossil oribatid mites (Acari: Oribatida). *Acarologia*, 46: 111–125.
- Norton R.A. & Metz, L. 1980. Nehypochthoniidae (Acari: Oribatei), a new family from the southeastern United States. *Annals of the Entomological Society of America*, 73: 54–62.
- Norton, R. A., Bonamo, P. N., Grierson, J. D. & Shear, W. A. 1988. Oribatid mite fossils from a terrestrial Devonian deposit near Gilboa, New York. *Journal of Paleontology*, 62: 259–269.

- Novojilov, N. J. 1959. Mérostomes du Dévonien inférieur et moyen de Sibérie. *Annales de la Société Géologique du Nord*, 78: 241–258.
- Novojilov, N. & Størmer, L. 1963. A new scorpion from the Upper Carboniferous of Siberia. *Norsk Geologisk Tidsskrift* 43: 83–87.
- O'Connell, M. 1916. The habitat of the Eurypterida. *Bulletin of the Buffalo Society of Natural Sciences*, 11: 1–278.
- Olivier, P. A. S. & Theron, P. D.. 2000. Pentapalpidae, a new family of eupodoid mites (Prostigmata:Eupodoidea) from South Africa. *Acarologia*, 40: 385–392.
- Ono, H. 1981. First record of a crab spider (Thomisidae) from Dominican amber (amber collection Stuttgart : Arachnida, Araneae). *Stuttgarter Beitrage zur Naturkunde (B)*, 73: 1–13.
- Opluštil, S. 1985. New findings of Arachnida from the Bohemian Upper Carboniferous. *Věstník Ústředního ústavu geologického*, 60: 35–42.
- Opluštil, S. 1986. *Promygale janae* sp. n., the new anthracomartid (Arachnida) from the Upper Carboniferous of central Bohemia. *Věstník Ústředního ústavu geologického*, 61: 287–292.
- Oppenheim, P. 1887–1888. Die Insectenwelt des lithographischen Schiefers in Bayern. *Palaeontographica*, 34: 215–247.
- Orr, P. J., Siveter, D. J., Briggs, D. E. G., Siveter, D. J. & Sutton, M. D. 2000. A new arthropod from the Silurian Konservat-Lagerstätte of Herefordshire, UK. *Proceedings of the Royal Society B*, 267: 1497–1504.
- Oudemans, A. C. 1902. Classificatie der Acari. *Tijdschrift voor Entomologie*, 45: 50–64. [Oppiella nova](#)
- Oudemans, A. C. 1909. Über die bis jetzt genauer bekannten Thrombidium-larven und über eine neue Klassifikation der Prostigmata. *Tijdschrift voor Entomologie*, 52: 19–61.
- Oudemans, A. C. 1916. Acarologische Aanteekeningen LX. *Entomologische berichten*, 4: 308–316.
- Oudemans, A. C. 1923. Studie over de sedert 1977 ontworpen system der Acari; nieuwe classificatie; phylogenerische beschouwingen. *Tijdschrift voor Entomologie*, 66: 49–85.
- Oudemans, A.C. 1937. Kritisch historich overzicht der acarologie door Dr. A. C. Oudemans. Pp. 2737–3379 In *Derde Gedeelte 1805–1850, Band G, Algemeen register*. E.J. Brill, Leiden.
- Özdikmen, H. 2007. Nomenclatural changes for seven preoccupied spider genera (Arachnida: Araneae). *Munis Entomology & Zoology*, 2: 137–142.
- Packard, A. S. 1885. Types of Carboniferous Xiphosura new to North America. *American Naturalist*, 1885: 291–294.
- Packard, A. S. 1886. On the Carboniferous xiphosurous fauna of North America. *Memoirs of the National Academy of Sciences*, 3: 143–157.
- Page, D. 1856. *Advanced textbook of geology*. William Blackwood and Sons, Edinburgh, 326 pp.
- Page, D. 1859. *Advanced textbook of geology, 2nd edn*. William Blackwood and Sons, London, xx pp.
- Palmer, A. R. 1957. Miocene arthropods from the Mojave Desert California. *Geological Survey Professional Paper*, 294-G: 237–280.

- Pampaloni, L. 1902. I resti organici nel disodile di Melilli in Sicilia. *Palaeontographica Italica*, 8: 121–130.
- Panesar, A. R. 2004. Evolution in water mites (Hydrachnellae, Actinedidida, Acari). A revision of the Anisitsiellidae Koenike, 1910. *Bonner Zoologische Monographien*, 52: 1–144.
- Paschoal, A. D. 1989d. Description of *Nooliodes* gen. n. and Nooliodidae fam. n. (Acari, Oribatei) from Madagascar. *Revista Brasileira de Zoologia*, 6:179–182.
- Patrick, R. R. 1989. A new phalangiotarbid (Arachnida) from the McLeansboro Group (Pennsylvanian) of Indiana. *Journal of Paleontology*, 63: 327–331.
- Peach, R. N. 1882. Further researches among Crustacea and Arachnida. *Transactions of the Royal Society of Edinburgh*, 30: 511–529.
- Peach, R. N. 1883. A new species of fossil scorpions from the Carboniferous rocks of Scotland and the English borders, with a review of the genera *Eoscorpius* and *Mazonia* of Messrs. Meek and Worthen. *Transactions of the Royal Society of Edinburgh*, 30: 397–412.
- Peach, R. N. 1888. On a new eurypterid from the Upper Coal-measures of Radstock, Somersetshire. *Proceedings of the Royal Physical Society, Edinburgh*, 9: 438–445.
- Peckham, G. W. & Peckham, E. G. 1892. Ant-like spiders of the Family Attidae. *Occasional Papers of the Natural History Society of Wisconsin*, 2(1): 1–83.
- Peckham, G. W. & Wheeler, W. H. 1889. Spiders of the subfamily Lyssomanae. *Transactions of the Wisconsin Academy of Science, Arts and Letters*, 7: 222–256.
- Peñalver, E., Arillo, A., Delclòs, X., Peris, D., Grimaldi, D. A., Anderson, S. R., Nascimbene, P. C., Pérez-de la Fuente, R. 2017. Ticks parasitized feathered dinosaurs as revealed by Cretaceous amber assemblages. *Nature Communications*, 8: 1924.
- Penney, D. 2000. Miocene spiders in Dominican amber (Oonopidae, Mysmenidae). *Palaeontology*, 43: 343–357.
- Penney, D. 2001. Advances in the taxonomy of spiders in Miocene amber from the Dominican Republic (Arthropoda: Araneae). *Palaeontology*, 44: 987–1009.
- Penney, D. 2002. Spiders in Upper Cretaceous amber from New Jersey (Arthropoda: Araneae). *Palaeontology*, 45: 709–724.
- Penney, D. 2003a. *Afrarchaea grimaldii*, a new species of Archaeidae (Araneae) in Cretaceous Burmese amber. *The Journal of Arachnology*, 31: 122–130.
- Penney, D. 2003b. A new deinopid spider from Cretaceous Lebanese amber. *Acta Palaeontologica Polonica*, 48: 569–574.
- Penney, D. 2004a. New spiders in Upper Cretaceous amber from New Jersey in the American Museum of Natural History (Arthropoda: Araneae). *Palaeontology*, 47: 367–375.
- Penney, D. 2004b. Cretaceous Canadian amber spider and the palpimanoidean nature of lagonomegopids. *Acta Palaeontologica Polonica*, 49: 579–584.

- Penney, D. 2004c. A new genus and species of Pisauridae (Araneae) in Cretaceous Burmese amber. *Journal of Systematic Palaeontology*, 2: 141–145.
- Penney, D. 2005a. First fossil Filistatidae: a new species of *Misionella* in Miocene amber from the Dominican republic. *The Journal of Arachnology*, 33: 93–100.
- Penney, D. 2005b. The fossil spider family Lagonomegopidae in Cretaceous ambers with descriptions of a new genus and species from Burmese. *The Journal of Arachnology*, 33: 439–444.
- Penney, D. 2005c. First Caribbean *Floricomus* (Araneae: Linyphiidae), a new fossil species in Miocene Dominican Republic amber. A new synonymy from the extant North American fauna. *Geologica Acta*, 3: 59–64.
- Penney, D. 2005d. An annotated systematic catalogue, including synonymies and transfers, of Miocene Dominican Republic amber spiders described up until 2005. *Revista Ibérica de Aracnología*, 12: 25–52.
- Penney, D. 2006a. Fossil oonopid spiders in Cretaceous ambers from Canada and Burmese. *Palaeontology*, 49: 229–235.
- Penney, D. 2006b. The oldest lagonomegopid spider, a new species in Lower Cretaceous amber from Álava, Spain. *Geologica Acta*, 4: 377–382.
- Penney, D. 2007a. The oldest fossil pholcid and selenopid spiders (Araneae) in lowermost Eocene amber from the Paris Basin France. *The Journal of Arachnology*, 34: 592–598.
- Penney, D. 2007b. A new fossil oonopid spider in lowermost Eocene amber from the Paris Basin, with comments on the fossil spider assemblage. *African Invertebrates*, 48: 71–75.
- Penney, D. 2009. A new spider family record for Hispaniola – a new species of *Plectreurys* (Araneae: Plectreuridae) in Miocene Dominican amber. *Zootaxa*, 2144: 65–68.
- Penney, D. 2010. Dominican amber. 22–41. In Penney, D. (ed.). Biodiversity of fossils in amber from the major world deposits. Siri Scientific Press, Manchester, UK, 304 pp.
- Penney, D. 2011. Grandoculidae: a new fossil spider family from the Upper Cretaceous of Canada. *Bulletin of the British arachnological Society*, 15: 179–180.
- Penney, D. 2014. A fossil ray spider (Araneae: Theridiosomatidae) in Cretaceous amber from Vendée, France. *Paleontological Contributions*, 10B: 1–8.
- Penney, D. & Ortuño, V. N. 2006. Oldest true orb-weaving spider (Araneae: Araneidae). *Biology Letters*, 2: 447–450.
- Penney, D. & Selden, P. A. 2002. The oldest linyphiid spider in Lower Cretaceous Lebanese amber (Araneae, Linyphiidae, Linyphiinae). *The Journal of Arachnology*, 30: 487–493.
- Penney, D. & Selden, P. A. 2006. First fossil Huttoniidae (Arthropoda: Chelicerata: Araneae) in late Cretaceous Canadian amber. *Cretaceous Research*, 27: 442–446.
- Penney, D., Dierick, M., Cnudde, V., Masschaele, B., Vlassenbroeck, J., Hoorebeke, L. van & Jacobs, P. 2007. First fossil Micropholcommatidae (Araneae), imaged in Eocene Paris amber using X-Ray Computed Tomography. *Zootaxa*, 1623: 47–53.

- Penney, D., Green, D. I., Tichner, S. B., Titchner, B. G., Brown, T. A., Preziosi, R. F. 2012c. An unusual palaeobiocoenosis of subfossil spiders in Colombian copal. *Bulletin of the British Arachnological Society*, 15: 241–244.
- Penney, D., McNeil, A., Green D. I., Bradley, R., Marusik, Y. M., Withers, P. J. & Preziosi, R. F. 2011. A new species of anapid spider (Araneae: Araneoidea, Anapidae) in Eocene Baltic amber, imaged using phase contrast X-ray computed micro-tomography. *Zootaxa*, 2742: 60–66.
- Penney, D., McNeil, A., Green D. I., Bradley, R., Withers, P. J. & Preziosi, R. F. 2012a. The oldest fossil pirate spider (Araneae: Mimetidae), in uppermost Eocene Indian amber, imaged using X-ray computed tomography. *Bulletin of the British Arachnological Society*, 15: 299–302.
- Penney, D., Green D. I., McNeil, A., Bradley, R., Marusik, Y. M., Withers, P. J. & Preziosi, R. F. 2012b. A new species of *Craspedisia* (Araneae: Theridiidae) in Miocene Dominican amber, imaged using X-ray computed tomography. *Paleontological Journal* 46: 583–588. [Translation of Russian original]
- Pérez, d’A.V. 1988. Un oribatido del Eoceno (Terciario). Primar acaro fosil de Chile (Arachnida: Acari: Oribatida). *Revista Chilena de Entomología*, 16: 23–24.
- Pérez-de la Fuente, R., Saupe, E. E. & Selden, P. A. 2013. New lagonomegopid spiders (Araneae: †Lagonomegopidae) from Early Cretaceous Spanish amber. *Journal of Systematic Paleontology*, 11: 531–553.
- Pérez González, A. & Kury A. 2007. Kimulidae. In Pinto da Rocha, R., Machado, G. & Giribet, G. (eds). *Harvestmen. The Biology of Opiliones*. Harvard University Press, Cambridge MA, pp. 207–209.
- Perkovsky, E. E., Zosimovich, V. Y. & Vlaskin, A. P. 2010. Rovno amber. 116–136. In Penney, D. (ed.). *Biodiversity of fossils in amber from the major world deposits*. Siri Scientific Press, Manchester, UK, 304 pp.
- Perkovsky, E. E., Rasnitsyn, A. P., Vlaskin, A. P., Taraschuk, M. V. 2007. A comparative analysis of the Baltic and Rovno amber arthropod faunas: representative samples. *African Invertebrates*, 48:229–245
- Perry, M. L. 1995. Preliminary description of a new fossil scorpion from the middle Eocene Green River Formation, Rio Blanco County, Colorado. In Dayvault, R. D. & Averett, W. R. (eds). *The Green River Formation in Piceance Creek and Estern Unita Basins Field Trip*. Grand Junction Geological Society, Grand Junction Colorado, pp. 131–133.
- Peters, W. 1861. (Ueber eine neue Eintheilung der Skorpione und ueber die von ihm in Mossambique gesammelten Arten von Skorpionen). *Monatsberichte der Königlich Preussischen Akademie der Wissenschaft zu Berlin*, 1861: 507–516.
- Petrunkévitch, A. I. 1913. A monograph of the terrestrial Palaeozoic Arachnida of North America. *Transactions of the Connecticut Academy of Arts and Sciences*, 18: 1–137.
- Petrunkévitch, A. I. 1922. Tertiary spiders and opilionids of North America. *Transactions of the Connecticut Academy of Arts and Sciences*, 25: 211–279.

- Petrunkévitch, A. I. 1923. On families of spiders. *Annals of the New York Academy of Science*, 29: 145–180.
- Petrunkévitch, A. I. 1928. Systema Araneorum. *Transactions of the Connecticut Academy of Arts and Sciences*, 29: 1–270.
- Petrunkévitch, A. I. 1942. A study of amber spiders. *Transactions of the Connecticut Academy of Arts and Sciences*, 34: 119–464.
- Petrunkévitch, A. I. 1945a. Palaeozoic Arachnida. An inquiry into their evolutionary trends. *Scientific Papers, Illinois State Museum*, 3(2): 1–76.
- Petrunkévitch, A. I. 1945b. *Calcitro fisheri*. A new fossil arachnid. *American Journal of Science*, 243: 320–329.
- Petrunkévitch, A. I. 1946. Fossil spiders in the collection of the American Museum of Natural History. *American Museum Novitates*, 1328: 1–36.
- Petrunkévitch, A. I. 1949. A study of Palaeozoic Arachnida. *Transactions of the Connecticut Academy of Arts and Sciences*, 37: 69–315.
- Petrunkévitch, A. I. 1950. Baltic amber spiders in the Museum of Comparative Zoology. *Bulletin of the Museum of Comparative Zoology*, 103: 257–337.
- Petrunkévitch, A. I. 1953. Palaeozoic and Mesozoic Arachnida of Europe. *Memoirs of the Geological Society of America*, 53: 1–128.
- Petrunkévitch, A. I. 1955a. Arachnida. 42–162. In Moore, R. C. (ed.) *Treatise on invertebrate paleontology, Part P, Arthropoda 2*. Geological Society of America, Boulder, and University of Kansas Press, Lawrence, xvii + 181 pp.
- Petrunkévitch, A. I. 1955b. *Trigonotarbus arnoldi*, a new species of fossil arachnid from Southern France. *Journal of Paleontology*, 29: 475–477.
- Petrunkévitch, A. I. 1958. Amber spiders in European collections. *Transactions of the Connecticut Academy of Arts and Sciences*, 41: 97–400.
- Petrunkévitch, A. I. 1963. Chiapas amber spiders. *University of California Publications in Entomology*, 31: 1–40.
- Petrunkévitch, A. I. 1971. Chiapas amber spiders, II. *University of California Publications in Entomology*, 63: 1–44.
- Piffel, E. 1972. Zur Systematik der Oribatiden (Acari). (Neue Oribatiden aus Nepal, Costa Rica und Brasilien ergeben eine neue Familie der Unduloribatidae und erweitern die Polypterozetidae um die Gattungen *Podopterozetegaeus*, *Nodocepheus*, *Eremaezetes* und *Tumerozetes*. *Khumbu Himal*, 4: 269–314.
- Pickett, J. W. 1984. A new freshwater limuloid from the middle Triassic of New South Wales. *Palaeontology*, 27: 609–621.
- Pickett, J. W. 1993. A Late Devonian xiphosuran from near Parkes, New South Wales. *Memoirs of the Association of Australian Palaeontologists*, 15: 279–287.
- Pickford, M. 2000. Fossil spider's webs from the Namib Desert and the antiquity of *Seothyra* (Araneae, Eresidae). *Annales de Paléontologie*, 86: 147–155.

- Pictet, F. J. 1846. *Traite élémentaire de paléontologie. Vol. 4.* Paris, 458 pp.
- Pierce, W. D. 1945. A fossil whiptail scorpion from Cabrillo Beach. *Bulletin of the Southern California Academy of Sciences*, 44: 7–8.
- Pierce, W. D. 1950. Fossil arthropods from onyx-marble. *Bulletin of the Southern Californian Academy of Sciences*, 49: 101–104.
- Pierce, W. D. 1951. Fossil arthropods from onyx-marble. *Bulletin of the Southern Californian Academy of Sciences*, 50: 34–49.
- Pinto, I. D. & Hünicken, M. A. 1980. *Gondwanarachne* a new genus of the order Trigonotarbida (Arachnida) from Argentina. *Boletín de la Academia Nacional de Ciencias Córdoba*, 53: 307–315.
- Pirozhnikov, L. P. 1957. [Remains of Gigantostraca from the the series of Matakara (Devonian of North Minusinsk Depression).] *Annuaire de la Société paléontologique de Russie*, 16: 207–213. [in Russian]
- Platnick, N. I. 1977. The hypochiloid spiders: a cladistic analysis, with notes on the Atypoidea (Arachnida, Araneae). *American Museum Novitates*, 2627, 1–23.
- Platnick, N. I. 1989. *Advances in Spider Taxonomy 1981-1987: A Supplement to Brignoli's A Catalogue of the Araneae described between 1940 and 1981.* Manchester University Press, 673 pp.
- Pocock, R. I. 1892. *Liphistius* and its bearing upon the classification of spiders. *Annals and Magazine of Natural History, series 6*, 10: 306–314.
- Pocock, R. I. 1893. Notes on the classification of scorpions, followed by some observations on synonymy, with descriptions of new genera and species. *Annals and Magazine of Natural History, series 6*, 12: 303–330.
- Pocock, R. I. 1895. Description of two new spiders obtained by Messrs J. J. Quelch and F. MacConnel on the summit of Mount Roraima, in Demerara; with a note upon the systematic position of the genus *Desis*. *Annals and Magazine of Natural History, series 6*, 16: 139–143.
- Pocock, R. I. 1897. On the genera and species of tropical African Arachnida of the order Solifugae, with notes upon the taxonomy and habits of the group. *Annals and Magazine of Natural History, series 6*, 20: 249–272.
- Pocock, R. I. 1898. The Arachnida from the Province of Natal, South Africa, contained in the collection of the British Museum. *Annals and Magazine of Natural History, series 7*, 2: 197–226.
- Pocock, R. I. 1901. The Scottish Silurian scorpions. *Quarterly Journal of Microscopical Science*, (2) 44: 291–311.
- Pocock, R. I. 1902. *Eophrynus* and allied Carboniferous Arachnida. *Geological Magazine, Decade 4*, 9: 439–448, 487–493.
- Pocock, R. I. 1903a. A new Carboniferous arachnid. *Geological Magazine, Decade 4*, 10: 247–251.
- Pocock, R. I. 1903b. Further remarks upon the Carboniferous arachnid *Anthracosiro*, with the description of a second species of the genus. *Geological Magazine, Decade 4*, 10: 405–408.
- Pocock, R. I. 1903c. On the geographical distribution of spiders of the order Mygalomorphae. *Proceedings of the Zoological Society of London*, 1903: 340–368.

- Pocock, R. I. 1911. A monograph of the terrestrial Carboniferous Arachnida of Great Britain. *Monographs of the Palaeontographical Society*, 64: 1–84.
- Pohlman, J. 1882. Additional Notes on the Fauna of the Water-Lime Group near Buffalo. *Bulletin of the Buffalo Society of Natural Sciences*, 4(2): 41–47.
- Poinar Jr., J. O. 1985. Fossil evidence of insect parasitism by mites. *International Journal of Acarology*, 11: 37–38.
- Poinar Jr., G.O. 1988. Hair in Dominican amber: evidence for Tertiary land mammals in the Antilles. *Experientia*, 44: 88–89.
- Poinar Jr., G. O. 1995. First fossil soft tick, *Ornithodoros antiquus* n. sp. (Acari: Argasidae) in Dominican amber with evidence of their mammalian host. *Experimentia Basel*, 51: 584–587.
- Poinar Jr., G. [O.] 2008. *Palaeosiro burmanicum* n. gen., n. sp., a fossil Cyphophthalmi (Arachnida: Opiliones: Sironidae) in Early Cretaceous Burmese amber. In Makarov, S. E. & Dimitriević, R. N. (eds) *Advances in Arachnology and Developmental Biology. Papers dedicated to Prof. Dr. Božidar Čurčić*. Inst. Zool., Belgrade; BAS, Sofia; Fac. Life Sci., Vienna; SASA, Belgrade & UNESCO MAB Serbia. Vienna — Belgrade — Sofia, Monographs, 12: 267–274 .
- Poinar Jr., G. O. 2015. *Pulchellaranea pedunculata* n. gen. n. sp. (Araneae: Araneidae), a new genus of spiders with a review of araneid spiders in Cenozoic Dominican amber. *Historical Biology*, 27: 103–108.
- Poinar Jr., G. O. & Brown, A. E. 2003. A new genus of hard ticks in Cretaceous Burmese amber (Acari: Ixodida: Ixodidae). *Systematic Parasitology*, 54: 199–205.
- Poinar Jr., G. O. & Brown, A. E. 2004. A new whip spider (Arachnida: Amblypygi), *Phrynus mexicana*, is described from Mexican amber. In Wunderlich, J. (ed.) *Beiträge zur Araneologie*, 3: 1881–1885.
- Poinar Jr., G. O. & Buckley, R. 2008. *Compluriscutula vetulum* (Acari: Ixodida: Ixodidae), a new genus and species of hard tick from Lower Cretaceous Burmese amber. *Proceedings of the Entomological Society of Washington*, 110: 445–450.
- Poinar Jr., G. O. & Buckley, R. 2012. Predatory behaviour of the social orb-weaver spider, *Geratonephila burmanica* n. gen., n. sp. (Araneae: Nephilidae) with its wasp prey, *Cascoscelio incassus* n. gen., n. sp. (Hymenoptera: Platygasteridae) in Early Cretaceous Burmese amber. *Historical Biology*, 24: 519–525.
- Poinar Jr., G. O. & Santiago-Blay, J. A. 1989. A fossil solpugid, *Haplodontus proterus*, new genus, new species (Arachnida: Solpugida) from Dominican amber. *Journal of the New York Entomological Society*, 97: 125–132.
- Poinar Jr., G. O., Krantz, G. W., Boucot, A. J., Pike, T. M. 1997. A unique Mesozoic parasitic association. *Naturwissenschaften*, 84: 321–322.
- Ponomarenko, A. G. 1985. King crabs and eurypterids from the Permian and Mesozoic of the USSR. *Paleontological Journal*, 19: 100–104. [Translation of *Paleontologičeskij Žurnal*, 1985: 115–117.]

- Poschmann, M. 2009. Ein fossiler Skorpion aus der Oberkarbon (Westfalium C) des Saar-Nahe-Beckens (SW Deutschland). *Mitteilungen der Pollichia*, 94: 5–10.
- Poschmann, M. & Dunlop, J. A. 2006. A new sea spider (Arthropoda: Pycnogonida) with a flagelliform telson from the Lower Devonian Hunsrück Slate, Germany. *Palaeontology*, 49: 983–989.
- Poschmann, M. & Dunlop, J. A. 2010. Trigonotarbid arachnids from the Lower Devonian (Lower Emsian) of Alken an der Mosel (Rhineland-Palatinate, SW Germany). *Paläontologische Zeitschrift*, 84: 467–484.
- Poschmann, M. & Dunlop, J. A. 2011. Trigonotarbid arachnids from the Lower Devonian (Siegenian) of Bürdenbach (Lahrbach Valley, Westerwald area, Rhenish Slate Mountains, Germany). *Paläontologische Zeitschrift*, 85: 433–447.
- Poschmann, M. & Dunlop, J. A. 2012. Reassessing *Devonotarbus*, a phalangiotarbid arachnid from the Lower Devonian (Siegenian and Emsian) of the Rheinisches Schiefergebirge (SW Germany). *Paläontologisches Zeitschrift*, 86: 377–387.
- Poschmann, M. & Tetlie, O. E. 2004. On the Emsian (Early Devonian) arthropods of the Rhenish Slate Mountains: 4. The eurypterids *Alkenopterus* and *Vinetopterus* n. gen. (Arthropoda: Chelicerata). *Senckenbergiana lethaea*, 84: 173–193.
- Poschmann, M., Anderson, L. I. & Dunlop, J. A. 2005. Chelicerate arthropods, including the oldest phalangiotarbid arachnid, from the Early Devonian (Siegenian) of the Rhenish Massif, Germany. *Journal of Paleontology*, 79: 110–124.
- Poschmann, M., Dunlop, J. A., Bértoux, O. & Galtier, J. 2016. Carboniferous arachnids from the Graissessac Basin, Central Massif, France. *Paläontologische Zeitschrift*, 90: 33–48.
- Poschmann, M., Dunlop, J. A., Kamenz, C. & Scholtz, G. 2008. The Lower Devonian scorpion *Waeringoscorpio* and the respiratory nature of its filamentous structures, with a description of a new species from the Westerwald area, Germany. *Paläontologische Zeitschrift*, 82: 418–436.
- Prach, F. K. 1860. Život Pavouků pravých či přédoueích (Araneae). *Živa*, 8: 80–93.
- Presl, J. S. 1822. Additamenta ad faunam protogaeam, sistens descriptiones aliquot animalium in succino inclusorum. In Presl, J. S. & Presl, C. B. (eds). *Deliciae Pragenses Historiam Naturalem Spectantes. Tome I. Calvae, Pragae*, viii + 244 pp.
- Prestwich, J. 1840. Memoir on the geology of Coalbrook Dale. *Transactions of the Geological Society of London* 5: 413–495.
- Příbyl, A. 1952. On the genus *Adelophthalmus* Jordan and Meyer, 1854 (Euryperida) and its representatives in the Upper Carboniferous of Czechoslovakia. *Bulletin International de l'Académie tchèque des Sciences*, 53: 63–70.
- Příbyl, A. 1958. Some new Carboniferous arachnids from the Ostrava-Karviná coal district. *Časopis pro Mineralogii a Geologii*, 3: 425–434.

- Příbyl, A. 1967. *Moravurus* gen.n. eine neue Xiphosurida Gattung aus dem mährisch-schlesischen Oberkarbon. *Časopis pro Mineralogii a Geologii*, 12: 457–460.
- Pritchard A. E. 1956. A new superfamily of trombidiform mites with the description of a new family, genus and species (Acarina: Iolinidea: Iolinidae: *Iolina nana*). *Annals of the Entomological Society of America*, 49: 204–206.
- Protescu, O. 1937. Etude géologique et paléobiologique de l'ambre roumain. *Bulletin de la Société române Géologique*, 3: 65–110.
- Prószyński, J. & Żabka, M. 1980. Remarks on Oligocene amber spiders of the family Salticidae. *Acta Palaeontologica Polonica*, 25: 213–223.
- Pruvost, P. 1912. Note sur les Araignées du terrain houiller du Nord de la France. *Annales de la Société Géologique du Nord*, 41: 85–100.
- Pruvost, P. 1919. *Introduction à l'étude du terrain houiller du Nord et du Pas-de-Calais: La faune continentale du terrain houiller de la France*. pp. 339–364. *Classe des Arachnides*. Thèse Université de Lille, Lille.
- Pruvost, P. 1922. Les arachnides fossiles du Houiller de Belgique. *Annales de la Société Scientifique de Bruxelles*, 41: 349–355.
- Pruvost, P. 1926. Description de deux fossiles du terrain houiller de Noeux (*Anthracosiro corsini*, nov. sp. et *Fayolia sterzeli* Weiss). *Annales de la Société Géologique du Nord*, 51: 144–149.
- Pruvost, P. 1930. La Faune continentale du terrain houiller de la Belgique. Arachnides. *Mémoires du Musée royal d'Histoire naturelle de Belgique*, 44: 206–217.
- Pruvost, P. 1939. *Euypterus (Anthraconectes) corneti* du Westphalien A du couchant de Mons. *Annales de la Société Scientifique de Bruxelles*, 59: 56–59.
- Qin, T. K. & Halliday, R. B. 1997. Eriorhynchidae, a new family of Prostigmata (Acarina), with a cladistic analysis of eupodoid species of Australia and New Zealand. *Systematic Entomology*, 22: 151–171.
- Quintero Jr., D. 1996. Revision de la clasificación de Amblypygidos pulvanados: creación de subordenes, una nueva familia y un nuevo género con tres nuevas especies (Arachnida: Amblypygi). 203–212. In Eberhardt, W. G., Lubin, Y. D. & Robinson, B. C. (eds). *Proceedings of the Ninth International Congress of Arachnology, Panama 1983*. Smithsonian Institution Press, Washington, DC, xx pp.
- Racheboeuf, P. R. 1992. *Valloisella lievinensis* n. g. n. sp.: nouveau Xiphosure carbonifère du nord de la France. *Neues Jahrbuch für Geologie und Paläontologie, Monatshefte*, 1992(6): 336–342.
- Racheboeuf, P. R., Vannier, J. & Anderson, L. I. 2002. A new three-dimensionally preserved xiphosuran chelicerate from the Montceau-les-Mines Lagerstätte (Carboniferous, France). *Palaeontology*, 45: 125–147.
- Ramírez, M. J. & Grismado, C. J. 1997. A review of the spider family Filistatidae in Argentina (Arachnida: Araneae), with a cladistic reanalysis of filistatid genera. *Entomologica Scandinavica*, 28: 319–349.

- Ramsay, G.W. 1960. Sub-fossil mites from the Hutt Valley. *Transactions of the Royal Society of New Zealand*, 88: 575–576.
- Raymond, P. E. 1944. Late Paleozoic xiphosurans. *Bulletin of the Museum of Comparative Zoology*, 94: 475–508.
- Raven, R. J. 1985. The spider infraorder Mygalomorphae (Araneae): cladistics and systematics. *Bulletin of the American Museum of Natural History*, 182: 1–180.
- Raven, R. J., Jell, P. A. & Knezour, R. A. 2015. *Edwa maryae* gen. et sp. nov. in the Norian Blackstone Formation of the Ipswich Basin – the first Triassic spider (Mygalomorphae) from Australia. *Alcheringa*, 39: 259–263.
- Redell, J. R. & Cokendolpher, J. C. 1995. Catalogue, bibliography and generic revision of the order Schizomida (Arachnida). *Texas Memorial Museum, Speleological Monographs*, 4: 1–170.
- Reeside, J. B. & Harris, D. V. 1952. A Cretaceous horseshoe crab from Colorado. *Journal of the Washington Academy of Science*, 42: 174–178.
- Reiskind, J. 1986. A new *Lyssomanes* from the Dominican amber and the possible use of insular fossils in building phylogenies. 423. In Barrientos, J. A. (ed.) *Actas X Congreso Internacional de Aracnología, Jaca. España*, Volume 1. Barcelona.
- Reiskind, J. 1989. The potential use of amber fossils in the study of the biogeography of spiders in the Caribbean with the description of a new species of *Lyssomanes* from Dominican amber (Araneae: Salticidae). 217–228. In Woods, C. A. (ed.) *Biogeography of the West Indies, past, present and future*. Sandhill Crane Press, Gainesville, Florida.
- Remy, W. & Remy, R. 1959. Arthropodenfunde im Stefan der Halleschen Mulde. *Monograph-Bericht der Deutschen Akademie Wissenschaft Berlin*, 1: 299–312.
- Reuss, A. E. 1855. Palaeontologische Miscellen. III. Über eine neue Krusterspecies aus der Böhmischen Steinkohlenformation. *Denkschrift der königlich-kaiserlichen Akademie der Wissenschaft in Wien*, 10: 81–83.
- Reuter, E. 1909. Zur Morphologie und Ontogenie der Acariden mit besonderen Berücksichtigung von *Pediculopsis graminum* (E. Reut.). *Acta Societatis Scientiarum Fennicae*, 36: 1–288.
- Richter, R. & Richter, E. 1929. *Weinbergina opitzi* n. g., n. sp., ein Schwerträger (Merost. Xiphos.) aus dem Devon (Rheinland). *Senckenbergiana*, 11: 193–209.
- Ribera, C. 2003. El arácanido del Plesiotoceno inferior de Incaral V (Girona, NE de la Península Ibérica). *Paleontologia i Evolució*, 34: 51–53.
- Riek, E. F. 1955. A new xiphosuran from the Triassic sediments at Brookvale, New South Wales. *Records of the Australian Museum*, 23: 281–282.
- Riek, E. F. & Gill, E. D. 1971. A new xiphosuran genus from Lower Cretaceous Freshwater sediments at Koonwarra, Victoria, Australia. *Palaeontology*, 14: 206–210.
- Riquelme, F. & Menéndez-Acuña, M. 2017. Miocene spider *Maevia eureka* nov. sp. (Araneae: Salticidae). *PeerJ*, 5: e3614; DOI 10.7717/peerj.3614.

- Riquelme, F., Piedra-Jiménez, D.F., Córdova-Tabares, V. & Luna-Castro, B. 2014. A new chernetid pseudoscorpion from the Miocene Chiapas – amber Lagerstätte, Mexico. *Canadian Journal of Earth Sciences*, 51: 902–908.
- Riquelme, F., Villegas-Guzmán, G., González-Santillán, E., Córdova-Tabares, V., Francke, O. F., Piedra-Jiménez, D., Estrada-Ruiz, E. & Luna-Castro, B. 2015. New fossil scorpion from the Chiapas amber Lagerstätte. *PLoS ONE*, 10(8): e0133396.
- Risso, A. 1827. Animaux articulés: description de quelques Myriapodes, Scorpionides, Arachnides et Acarides, habitant les Alpes Maritimes. In Risso, A. (ed.). *Histoire Naturelle des Principales Productions de l'Europe Méridionale et Principalement de Celles des Environs de Nice et des Alpes Maritimes*. Levrault, Paris, xx pp.
- Ritchie, A. 1968. *Lanarkopterus dolichoshelus* (Størmer) gen. nov., a mixopterid eurypterid from the Upper Silurian of the Lesmahagow and Hagshaw Hills inliers, Scotland. *Scottish Journal of Geology*, 4: 317–338.
- Rivas, G., Serrano-Sánchez, L. & Vega, F. J. 2016. First record of *Procaeculus* (Acari: Caeculidae) in Miocene amber from Chiapas, Mexico. *Boletín de la Sociedad Geológica Mexicana*, 68: 87–92.
- Robin, N., Béthoux, O., Sidorchuk, E., Cui, Y.y., Li, Y.n., Germain, D., King, A., Berenguer, F. & Ren, D. 2016. A Carboniferous mite on an insect reveals the antiquity of an inconspicuous interaction. *Current Biology*, 26: 1–7.
- Robineau-Desvoidy, J. B. 1828. *Recherches sur l'organisation vertébrale des Crustacés, Arachnides et Insectes*. Comprè Jeune, Paris, 228 pp.
- Roemer, F. 1866. *Protolycosa anthracophila*, eine fossile Spinne aus dem Steinkohlengebirge Oberschlesiens. *Neues Jahrbuch für Mineralogie, Geologie und Paläontologie*: 136–143.
- Roemer, F. 1878. Auffindung und Vorlegung eines neuen Gliderthieres in dem Steinkohlengebiete der Ferdinandsgrube bei Glatz. *Jahresbericht der Schlesischen Gesellschaft für Vaterländische-Kultur.*, pp. 54–55.
- Roewer, C. F. 1912. Die Familien der Assamiden und Phalangodiden der Opiliones-Laniatores. (=Assamiden, Dampetriden, Phalangodiden, Epedaniden, Biantiden, Zalmoxiden, Samoiden, Palpipediden anderer Autoren.) *Archiv für Naturgeschichte* 78A (3): 1–242.
- Roewer, C.-F. 1913. Die Familie der Gonyleptiden der Opiliones-Laniatores. *Archiv für Naturgeschichte*, 79A (4, 5): 1–256, 257–473.
- Roewer, C.-F. 1923. *Die Weberknechte der Erde. Systematische Bearbeitung der bisher bekannten Opiliones*. Gustav Fischer, Jena, 1116 pp.
- Roewer, C.-F. 1933. Solifugae, Palpigradi. 161–480. In Bronn, H. G. (ed.). *Klassen und Ordnung des Tierreichs*. 5: *Arthropoda IV: Arachnoidea, vol. 5(IV) (4) (2–3)*. Akademische Verlagsgesellschaft M.B.H, Leipzig.

- Roewer, C.-F. 1934. Solifugae, Palpigradi. 481–723. In Bronn, H. G. (ed.). *Klassen und Ordnung des Tierreichs. 5: Arthropoda IV: Arachnoidea, vol. 5(IV) (4) (4–5)*. Akademische Verlagsgesellschaft M.B.H, Leipzig.
- Roewer, C.-F. 1935. Zwei myrmecophile Spinnen-Arten Brasiliens. *Veröffentlichungen aus dem Deutschen Kolonial- und Übersee-Museum in Bremen*, 1: 193–197.
- Roewer, C.-F. 1939. Opilioniden im Bernstein. *Palaeobiologica*, 7(1): 1–4.
- Roewer, C.-F. 1942. *Katalog der Araneae von 1758 bis 1940. 1. Band*. Kommissions-Verlag von „NATURA“: 1040 pp.
- Roewer, C.-F. 1943. Über Gonyleptiden. Weitere Webernechte (Arachn., Opil.) XI. *Senckenbergiana*, 26: 12–68.
- Roewer, C.-F. 1951. Über Nemastomatiden. Weitere Weberknechte XVI. *Senckenbergiana*, 32: 95–153.
- Roivainen, H. 1953. Subfamilies of European eriophyid mites. *Annales entomologici Fennici*, 19: 83–87.
- Romero, A. & Via Boada, L. 1977. *Tarracolimulus rieki*, nov. gen., nov. sp., nuevo limulido del Triásico de Montral-Alcover (Tarragona). *Cuadernos de Geología Ibérica*, 4: 239–246.
- Ross, A. J. & Vannier, J. 2002. Crustacea (excluding Ostracoda) and Chelicerata of the Purbeck Limestone Group, southern England: a review. *Special Papers in Palaeontology*, 68: 71–82.
- Ross, A., Mellish, C., York, P. and B. Crighton. 2010. Burmese amber. 208–235. In Penney, D. (ed.). *Biodiversity of fossils in amber from the major world deposits*. Siri Scientific Press, Manchester, UK, 304 pp.
- Rossi, A. 2015. A new family, genus and species of scorpion from the burmite of Burmese amber (Scorpiones: Sucinlourencoidae). *Rivista Aracnologica Italiana*, 1: 3–21.
- Rößler, R. & Schneider, J. 1997. Eine bemerkenswerte Paläobiocoenose im Unterkarbon Mitteleuropas – Fossilführung und Paläoenvironment der Hainichen-Subgruppe (Erzgebirge-Becken). *Veröffentlichungen des Museums für Naturkunde Chemnitz*, 20: 5–44.
- Roth, J. R. 1851. Ueber fossile Spinnen des lithographischen Schiefers. *Gelehrte Anzeigen herausgegeben von Mitgliedern der Königlichen Bayerischen Akademie der Wissenschaften in München*, 32: 164–167.
- Rowland, J. M. 1975. A partial revision of Schizomida (Arachnida) with descriptions of new species, genus, and family. *Occasional Papers of the Museum, Texas Tech University*, 31: 1–21.
- Rowland, J. M. & Sissom, W. D. 1980. Report on a fossil palpigrade from the Tertiary of Arizona, and a review of the morphology and systematics of the order (Arachnida: Palpigradida). *The Journal of Arachnology*, 8: 69–86.
- Rudkin, D. M., Young, G. A. & Nowlan, G. S. 2008. The oldest horseshoe crab: a new xiphosurid from late Ordovician Konservat-Lagerstätten deposits, Manitoba, Canada. *Palaeontology*, 51: 1–9.
- Rudkin, D. M., Cuggy, M. B., Young, G. A. & Thompson, D. P. 2013. An Ordovician pycnogonid (sea spider) with serially subdivided 'head' region. *Journal of Paleontology*, 87: 395–405.
- Ruedemann, R. 1916. Account of some new or little known species of fossils, mostly from the Palaeozoic rocks of New York. *New York State Museum Bulletin*, 189: 7–112.
- Ruedemann, R. 1921. A recurrent Pittsford (Salina) fauna. *New York State Museum Bulletin*, 219–20: 205–215.

- Ruedemann, R. 1926. The Utica and Lorraine Formations of New York, Part 2, Systematic Paleontology, no. 2, Mollusks, Crustacea and Eurypterids. *New York State Museum Bulletin*, 189: 98–112.
- Ruedemann, R. 1942. Some new eurypterids from New York. *New York State Museum Bulletin*, 327: 24–29.
- Russell, L. S. 1953. A new species of eurypterid from the Devonian of Gaspé. *Annual Report of the National Museum for the Fiscal Year 1952–1953, Bulletin*, 132: 83–91.
- Ryke, P. A. J. 1962. The subfamily Rhodacarinae with notes on a new subfamily Ologamasinae (Acarina: Rhodacaridae). *Entomologische Berichte Amsterdam*, 22: 155–162.
- Salter, J. W. 1856. On some new Crustacea from the uppermost Silurian Rocks. *Quarterly Journal of the Geological Society of London*, 12: 26–34.
- Sanchez, J. P., Nava, S., Lareschi, M., Ortiz, P. E. & Guglielmono, A. A. 2010. Finding of an ixodid tick inside a late Holocene owl pellet from northwestern Argentina. *Journal of Parasitology*, 96: 820–822.
- Santiago-Blay, J. A. & Poinar Jr., G. O. 1988. A fossil scorpion *Tityus geratus* new species (Scorpiones: Buthidae) from Dominican amber. *Historical Biology*, 1: 345–354.
- Santiago-Blay, J. A., Fet, V., Soleglad, M. E. & Anderson, S. R. 2004. A new genus and subfamily of scorpions from Lower Cretaceous Burmese amber (Scorpiones: Chaerilidae). *Revista Ibérica de Aracnología*, 9: 3–14.
- Sarle, C. J. 1903. A new eurypterid fauna from the base of the Salina in western New York. *New York State Museum Bulletin*, 69: 1080–1108.
- Sars, G. O. 1891. Pycnogonidea. *Norwegian North-Atlantic Expedition, 1876–1878*, 6 (Zool. 20): 1–163.
- Saupe, E. E. & Selden, P. A. 2009. First fossil Mecysmaucheniidae (Arachnida, Chelicerata, Araneae), from Lower Cretaceous (uppermost Albian) amber of Charente-Maritime, France. *Geodiversitas*, 31: 49–60.
- Saupe, E. E., Selden, P. A. & Penney, D. 2010. First fossil *Molinaranea* Mello-Leitão, 1940 (Araneae: Araneidae), from middle Miocene Dominican amber, with a phylogenetic and palaeobiogeographical analysis of the genus. *Zoological Journal of the Linnean Society*, 158: 711–725.
- Saupe, E. E., Pérez-de la Fuente, R., Selden, P. A., Delclòs, X., Tafforeau, P. & Soriano, C. 2012. New *Orchestina* Simon, 1882 (Araneae: Oonopidae) from Cretaceous ambers of Spain and France: First spider described using phase-contrast x-ray synchrotron microtomography. *Palaeontology*, 55: 127–143.
- Savage, T. E. 1916. Alexandrian rocks of northeastern Illinois and eastern Wisconsin. *Bulletin of the Geological Society of America*, 27: 305–324.
- Sayre, R. M., Smiley, R. L. & Walter, D. E. 1992. Report of a teneriffiid mite (Acari) in Baltic amber and notes on recent discoveries. *International Journal of Acarology*, 18: 303–305.
- Scharf, W. 1924. Beitrag zur Geologie des Steinkohlengebietes im Südharz. *Jahrbuch des Halleschen Verbands für die Erforschung der Mitteldeutschen Bodenschätze und ihrer Verwaltung*, 4: 404–437.
- Schawaller, W. 1978. Neue Pseudoscorpione aus dem Baltischen Bernstein der Stuttgarter Bernsteinsammlung (Arachnida: Pseudoscorpionidea). *Stuttgarter Beiträge zur Naturkunde (B)*, 42: 1–21.

- Schawaller, W. 1979a. Erstdnachweis eines Skorpions in Dominikanischem Bernstein (Stuttgarter Bernsteinsammlung: Arachnida, Scorpionida). *Stuttgarter Beiträge zur Naturkunde (B)*, 45: 1–15.
- Schawaller, W. 1979b. Erstdnachweis der Ordnung Geißelspinnen in Dominikanischem Bernstein (Stuttgarter Bernsteinsammlung: Arachnida, Amblypygi). *Stuttgarter Beiträge zur Naturkunde (B)*, 50: 1–12.
- Schawaller, W. 1980a. Fossile Chthoniidae in Dominikanischem Bernstein, mit phylogenetischen Anmerkungen (Stuttgarter Bernsteinsammlung: Arachnida, Pseudoscorpionida). *Stuttgarter Beiträge zur Naturkunde (B)*, 63: 1–19.
- Schawaller, W. 1980b. Erstdnachweis tertiärer Pseudoskorpione (Chernetidae) in Dominikanischen Bernstein. *Stuttgarter Beitrag zur Naturkunde (B)*, 57: 1–20.
- Schawaller, W. 1981. Cheiridiidae in Dominikanischem Bernstein, mit Anmerkungen zur morphologischen Variabilität (Stuttgarter Bernsteinsammlung: Arachnida, Pseudoscorpionida). *Stuttgarter Beiträge zur Naturkunde (B)*, 75: 1–14.
- Schawaller, W. 1982a. Zwei weitere Skorpione in Dominikanischem Bernstein (Stuttgarter Bernsteinsammlung: Arachnida, Scorpionida). *Stuttgarter Beiträge zur Naturkunde (B)*, 82: 1–14.
- Schawaller, W. 1982b. Der erste Pseudoskorpion (Chernetidae) aus Mexikanischem Bernstein. *Stuttgarter Beiträge zur Naturkunde (B)*, 85: 1–9.
- Schawaller, W. 1982c. Spinnen der Familien Tetragnathidae, Uloboridae und Dipluridae in Dominikanischem Bernstein und allgemeine Gesichtspunkte (Arachnida, Araneae). *Stuttgarter Beiträge zur Naturkunde (B)*, 89: 1–19.
- Schawaller, W. 1982d. Zur fossilen Spinnenfauna des Pliozäns von Willershäusen in Norddeutschland (Arachnida, Araneae). *Berichte der Naturhistorischen Gesellschaft zu Hannover*, 125: 89–95.
- Schawaller, W. 1984. The family Selenopidae in Dominican amber (Arachnida: Araneae). *Stuttgarter Beiträge zur Naturkunde (B)*, 103: 1–8.
- Schawaller, W., 1991. The first Mesozoic pseudoscorpion, from Cretaceous Canadian amber. *Palaeontology*, 34: 971–976.
- Schawaller, W. & Ono H. 1979. Fossile Spinnen aus miozänen Sedimenten des Randecker Maars in SW-Deutschland (Arachnida: Araneae). *Jahreshefte der Gesellschaft für Naturkunde in Württemberg*, 134: 131–141.
- Schawaller, W., Shear, W. A. & Bonamo, P. M. 1991. The first Paleozoic pseudoscorpions (Arachnida, Pseudoscorpionida). *American Museum Novitates*, 3009: 1–17.
- Schille, F. 1916. Entomologie aus der Mammut- und Rhinoceros-Zeit Galiziens. *Entomologische Zeitschrift*, 30: 42–43.
- Schimkewitsch, W. 1913. Ein Beitrag zur Klassifikation der Pantopoden. *Zoologischen Anzeiger*, 41: 597–615.
- Schimper, W. P. 1853. Paleontologica alsatica ou fragments paléontologiques des différents terrains stratifiés qui se rencontrent en Alsace. *Mémoires de la Société du Muséum d'Histoire Naturelle de Strasbourg*, 4: 1–10.

- Schmidt, A. R., Jancke, S., Lindquist, E. E., Ragazzi, E., Roghi, G., Nascimbene, P. C., Schmidt, K., Wappler, T. & Grimaldi, D. A. 2012. Arthropods in amber from the Triassic period. *Proceedings of the National Academy of Science, USA*, doi/10.1073/pnas.1208464109.
- Schmidt, A. R., Perrichot, V., Svojtka, M. Anderson, K. B., Belete, K. H., Bussert, R., Dörfelt, H., Jancke, S., Mohr, B., Mohrmann, E., Nascimbene, P. C., Nel, A., Nel, P., Ragazzi, E., Roghi, G., Saupe, E. E., Schmidt, K., Schneider, H., Selden, P. A., Vávra, N. 2010. Cretaceous life captured in amber. *Proceedings of the National Academy of Sciences, USA*: doi/10.1073/pnas.1000948107.
- Schmidt, F. 1883. Nachtrag zur Monographie der Russischen Leperditen II. Die Crustaceenfauna der Euryptereenschichten von Rootziküll auf Oesel. *Miscellanea silurica III. Memoirs of the Academy of Science de St. Petersburg*, 31: 28–85.
- Schram, F. R. 1979. Limulines of the Mississippian Bear Gulch Limestone of Central Montana, USA. *Transactions of the San Diego Society of Natural History*, 19: 67–74.
- Schram, F. R. 1984. Upper Pennsylvanian arthropods from black shales of Iowa and Nebraska. *Journal of Paleontology* 58(1): 197–209.
- Schultka, S. 1991. *Trigonotarbus stoermeri* n. sp. – ein Spinnentier aus den Bensberger Schichten (Ems/Unter-Devon) des Rheinisches Schiefergebirge. *Neues Jahrbuch für Geologie und Paläontologie, Abhandlungen*, 183: 375–390.
- Schuster, R. 1963. *Thalassozetes riparius* n. gen., n. sp., eine litoralbewohnende Oribatide von bemerkenswerter morphologischer Variabilität (Oribatei-Acari). *Zoologischer Anzeiger*, 171: 391–403.
- Scopoli, J. A. 1763. *Entomologia Carniolica, exhibens Insecta Carniolae indigena et distributa in ordines, genera, species, varietates. Methodo Linnaeana. Vindobonae*, 1763: 420 pp.
- Scott, A. G. 2003. Sub-fossil spiders from Holocene peat cores. *Journal of Arachnology*, 31: 1–7.
- Scudder, S. H. 1868. Supplement to descriptions of Articulates. Description of fossil insects found on Mazon Creek and near Morris, Grundy Co., Ill. *Geological Survey of Illinois*, 3: 566–572.
- Scudder, S. H. 1876. New and interesting insects from the Carboniferous of Cape Breton. *Canadian Naturalist and Quarterly Journal of Science*, 8: 88–90.
- Scudder, S. H. 1878. Additions to the Insect-Fauna of the Tertiary Beds at Quesnel, British Columbia. *Geological Survey of Canada. Report of Progress, 1876–1877*: 457–464.
- Scudder, S. H. 1884. A contribution to our knowledge of Paleozoic Arachnida. *Proceedings of the American Academy of Arts and Sciences*, 20: 13–22.
- Scudder, S. H. 1885. 3. Classe. Arachnoidea. Spinnen. Skorpione. 732–746. In Zittel, K. A. (ed), *Handbuch der Palaeontologie. I. Abtheilung. Palaeozoologie* 2. R. Oldenbourg, München & Leipzig.
- Scudder, S. H. 1890a. The Tertiary Insects of North America. *Report of the United States Geological Survey*, 13: 734 pp.

- Scudder, S. H. 1890b. Illustrations of the Carboniferous Arachnida of North America, of the orders Anthracomarti and Pedipalpi. *Memoirs of the Boston Society of Natural History*, 4: 443–456.
- Scudder, S. H. 1891. Index to the known fossil insects of the world including myriapods and arachnids. *Bulletin of the United States Geological Survey* 71: 1–744.
- Seemann, F. 1906. Beiträge zur Gigantotrakenfauna Böhmens. *Beiträge zur Paläontologie Österreich-Ungarns und des Orients*, 19: 49–57.
- Selden, P. A. 1990. Lower Cretaceous spiders from the Sierra de Montsech, north-east Spain. *Palaeontology*, 33: 257–285.
- Selden, P. A. 1992. Revision of the fossil ricinuleids. *Transactions of the Royal Society of Edinburgh: Earth Sciences*, 83: 595–634.
- Selden, P. A. 1996. First fossil mesothele spider from the Carboniferous of France. *Revue suisse de Zoologie*, hors série: 585–596.
- Selden, P. A. 2000. *Palaeothele*, replacement name for the fossil mesothele spider *Eothele* non Rowell. *Bulletin of the British arachnological Society*, 11: 292.
- Selden, P. A. 2001. Eocene spiders from the Isle of Wight with preserved respiratory structures. *Palaeontology*, 44: 695–729.
- Selden, P. A. 2002. First British Mesozoic spider, from Cretaceous amber of the Isle of Wight, southern England. *Palaeontology*, 45: 973–983.
- Selden, P. A. 2010. A theridiosomatid spider from the Early Cretaceous of Russia. *Bulletin of the British arachnological Society*, 15: 69–78.
- Selden, P. A. 2014a. A new spider (Araneae: Haplogynae: Plectreuridae) from the Cretaceous Fossil-Lagerstätte of El Montsec, Spain. *The Journal of Arachnology*, 42: 16–23.
- Selden, P. A. 2014b. Spiders (Arachnida: Araneae) from the Insect Limestone (Bembridge Marls, Late Eocene) of the Isle of Wight, southern England. *Earth and Environmental Science Transactions of the Royal Society of Edinburgh*, 104: 1–8.
- Selden, P. A. & Beattie, R. G. 2013. A spider fossil from the Jurassic Talbragar Fossil Fish Bed of New South Wales. *Alcheringa*, 37: 203–208.
- Selden, P. A. & Drygant, D. M. 1987. A new xiphosuran from the Silurian of Podolia, Ukraine, USSR. *Palaeontology*, 30: 537–542.
- Selden, P. A. & Dunlop, J. A. 2014. The first fossil spider (Araneae: Palpimanoidea) from the Lower Jurassic (Grimmen, Germany). *Zootaxa*, 3894: 161–168.
- Selden, P. A. & Gall, J.-C. 1992. A Triassic mygalomorph spider from the northern Vosges, France. *Palaeontology*, 35: 211–235.
- Selden, P.A. & Huang, D.-y. 2010. The oldest haplogyne spider (Araneae: Plectreuridae), from the Middle Jurassic of China. *Naturwissenschaften*, 97: 449–459

- Selden, P. A. & Penney, D. 2003. Lower Cretaceous spiders (Arthropoda: Arachnida: Araneae) from Spain. *Neues Jahrbuch für Geologie und Paläontologie, Monatshefte*, 2003: 175–192.
- Selden, P. A. & Penney, D. 2009. A fossil spider (Araneae: Pisauridae) of Eocene age from Horsefly, British Columbia, Canada. *Contributions to Natural History*, 12: 1269–1282.
- Selden, P. A. & Shear, W. A. 1996. The first Mesozoic solifuge (Arachnida), from the Cretaceous of Brazil, and a redescription of the Palaeozoic solifuge. *Palaeontology*, 39: 583–604.
- Selden, P. A. & Siveter, D. J. 1987. The origin of the limuloids. *Lethaia*, 20: 383–392.
- Selden, P. A. & Wang, Y. 2014. Fossil spiders (Araneae) from the Eocene Green River Formation of Colorado. *Arthropoda Selecta*, 23: 207–219.
- Selden, P. A., Baker, A. S. & Phipps, K. J. 2008. An oribatid mite (Arachnida: Acari) from the Oxford Clay (Jurassic: Upper Callovian) of South Cave Station Quarry, Yorkshire, UK. *Palaeontology*, 51: 623–633.
- Selden, P. A., Casado, F. C. & Mesquita, M. V. 2006. Mygalomorph spiders (Araneae: Dipluridae) from the Lower Cretaceous Crato Lagerstätte, Araripe Basin, north-east Brazil. *Palaeontology*, 49: 817–826.
- Selden, P. A., Dunlop J. A. & Simonetto, L. 2016. A fossil whip-scorpion (Arachnida: Thelyphonida) from the Upper Carboniferous of the Carnic Alps (Friuli, NE Italy). *Rivista Italiana di Paleontologia e Stratigrafia*, 122: 9–14.
- Selden, P. A., Huang, D.-y. & Ren, D. 2008. Palpimanoid spiders from the Jurassic of China. *Journal of Arachnology*, 36: 306–321.
- Selden, P. A., Ren, D. & Shih, C.-K. 2016. Mesozoic cribellate spiders (Araneae: Deinopoidea) from China. *Journal of Systematic Palaeontology*, 14: 49–74.
- Selden, P. A., Shear, W. A. & Bonamo, P. M. 1991. A spider and other arachnids from the Devonian of New York, and reinterpretations of Devonian Araneae. *Palaeontology*, 34: 241–281.
- Selden, P. A., Shear, W. A. & Sutton, M. D. 2008. Fossil evidence for the origin of spider spinnerets, and a proposed arachnid order. *Proceedings of the National Academy of Sciences of the United States of America*, 105: 20781–20785.
- Selden, P. A., Shih, C.-K. & Ren, D. 2011. A golden orb-weaver spider (Araneae: Nephilidae: Nephila) from the Middle Jurassic of China. *Biology Letters*, 7: 775–778.
- Selden, P. A., Shih, C.-K. & Ren, D. 2013. A giant spider from the Jurassic of China reveals greater diversity of the orbicularian stem group. *Naturwissenschaften*, 100: 1171–1181.
- Selden, P. A., Zhang, W. & Ren, D. 2016. A bizarre armoured spider (Araneae: Tetrablemmidae) from Upper Cretaceous Myanmar amber. *Cretaceous Research*, 66: 129–135.
- Selden, P. A., Anderson, J. M., Anderson, H. M. & Fraser, N. C. 1999. Fossil araneomorph spiders from the Triassic of South Africa and Virginia. *Journal of Arachnology*, 27: 401–414.
- Selden, P. A., Nam, K.-s., Kim, S. H. & Kim, H. J. 2012. A fossil spider from the Cretaceous of Korea. *Journal of Palaeontology*, 86: 1–6.

- Selden, P. A., Shcherbakov, D. E., Dunlop, J. A. & Eskov, K. Y. 2014. Arachnids from the Carboniferous of Russia and Ukraine, and the Permian of Kazakhstan. *Paläontologische Zeitschrift*, 88: 297–307.
- Selden, P. A., Dunlop, J. A., Giribet, G., Zhang, W. & Ren, D. 2016. The oldest armoured harvestman (Arachnida: Opiliones: Laniatores), from Upper Cretaceous Myanmar amber. *Cretaceous Research*, 65: 206–212.
- Sellnick, M. 1918. Die Oribatiden der Bernsteinsammlung der Universität Königsberg I Pr. *Schriften der Physikalisch-Ökonomischen Gesellschaft zu Königsberg (1919)*, 59: 21–42.
- Sellnick, M. 1922. Milben der Sammlung des Deutschen Entomologischen Instituts. I. Oribatidae. *Entomologische Mitteilungen*, 11: 18–20.
- Sellnick, M. 1928. Formenkreis: Hornmilben, Oribatei. In Brohmer, P., Ehrmann, P. & Ulmer, G. (eds). *Die Tierwelt Mitteleuropas*, 3, 4(9): 1–42.
- Sellnick, M. 1931. Milben im Berstein. *Bersteinforschung*, 2: 148–180.
- Semper, M. 1898. Die Gigantostriken des älteren böhmischen Paläozoicum. *Beiträge zur Paläontologie Österreich-Ungarns und des Orients*, 2: 71–88.
- Shear, W. A., 1980. A review of the Cyphophthalmi of the United States and Mexico, with a proposed reclassification of the suborder (Arachnida, Opiliones). *American Museum Novitates*, 2705: 1–34.
- Shear, W. A., 1986. A cladistic analysis of the opilionid superfamily Ischyropsalidoidea, with description of the new family Ceratolasmatidae, the new genus *Acuclavella* and four new species. *American Museum Novitates*, 2844: 1–29.
- Shear, W. A., 1993. The genus *Troglosiro* and the new family Troglosironidae (Opiliones, Cyphophthalmi). *Journal of Arachnology*, 21: 81–90.
- Shear, W. A. 2000. *Gigantocharinus szatmaryi*, a new trigonotarbid arachnid from the Late Devonian of North America (Chelicerata, Arachnida, Trigonotarbida). *Journal of Paleontology*, 74: 25–31.
- Shear, W. A. 2010. New species and records of ortholasmatine harvestmen from México, Honduras, and the western United States (Opiliones, Nemastomatidae, Ortholasmatinae). *ZooKeys*, 52: 9–45.
- Shear, W. A., Selden, P. A., Rolfe, W. D. I., Bonamo, P. M. & Grierson, J. D. 1987. New terrestrial arachnids from the Devonian of Gilboa, New York. *American Museum Novitates*, 2901: 1–74.
- Sharma, P. P. & Giribet, G. 2011. The evolutionary and biogeographic history of the armoured harvestmen – Laniatores phylogeny based on ten molecular markers, with the description of two new families of Opiliones (Arachnida). *Invertebrate Systematics*, 25: 106–142.
- Sharma, P. P., Prieto, C. E. & Giribet, G. 2011. A new family of Laniatores (Arachnida: Opiliones) from the Afrotropics. *Invertebrate Systematics*, 25: 143–154.
- Shpinev, E. S. 2006. A new species of *Adelophthalmus* (Eurypterida) from the Lower Carboniferous of the Krasnoyarsk Region. *Paleontological Journal*, 40: 431–433. [English translation of Russian original]
- Shpinev, E. S. 2012. On some eurypterids (Eurypterida, Chelicerata) from the Devonian of South Siberia. *Paleontological Journal*, 46: 370–377. [English translation of Russian original]

- Shuler, E. W. 1915. A new Ordovician eurypterid. *American Journal of Science*, 4th Series, 39: 551–554.
- Sidorchuk, E. A. & Behan-Pelletier, V. M. 2017. *Megeremaeus cretaceous* new species (Acari: Oribatida), the first oribatid mite from Canadian amber. *Canadian Entomologist*, 149: 277–290.
- Sidorchuk, E. A. & Bertrand, M. 2013. New fossil labidostomatids (Acari: Labidostomatidae) from Eocene amber and presence of an apustulate species in Europe. *Acarologia*, 53: 25–39.
- Sidorchuk E. A. & Khaustov A. A. 2018a. A parasite without host: The first fossil pterygosomatid mite (Acari: Prostigmata: Pterygosomatidae) from French Lower Cretaceous amber. *Cretaceous Research*, 91: 131–139.
- Sidorchuk E. A. & Khaustov A. A. 2018b. Two Eocene species of peacock mites (Acari: Tetranychoida: Tuckerellidae). *Acarologia*, 58: 99–115.
- Sidorchuk, E. A. & Klimov, P. B. 2011. Redescription of the mite *Glaesacarus rhombeus* (Koch & Berendt, 1854) from Baltic amber (Upper Eocene): evidence for female-controlled mating. *Journal of Systematic Palaeontology*, 9: 183–196.
- Sidorchuk, E. A. & Norton, R. A. 2011. The fossil mite family Archaeorchestidae (Acari, Oribatida) I: redescription of *Stieremaeus illibatus* and synonymy of *Strieremaeus* with *Archaeorchestes*. *Zootaxa*, 2993: 34–58.
- Sidorchuk, E. A., Perrichot, V. & Lindquist, E. E. 2016. A new fossil mite from French Cretaceous amber (Acari: Heterostigmata: Nasutiacaroida superfam. nov.), testing evolutionary concepts within the Eleutherengona (Acariformes). *Journal of Systematic Palaeontology*, 14: 297–317.
- Sidorchuk, E. A., Schmidt, A. R., Ragazzi, E., Roghi, G., Lindquist, E. E. 2015. Plant-feeding mite diversity in Triassic amber (Acari: Tetrapodili). *Journal of Systematic Palaeontology*, 13: 129–151.
- Siebold, C. T. E. von. 1850. Ueber *Eriophyes*. *Jahresbericht der Schlesischen Gesellschaft*, 28: 88–89.
- Siegfried, P. 1972. Ein Schwertschwanz (Merostomata, Xiphosurida) aus dem Oberkarbon von Ibbenburen/Westfalen. *Paläontologische Zeitschrift*, 46, 180–186.
- Šilhavý, V. 1973. Two new systematic groups of the gonyleptomorph phalangids from the Antillean-Caribbean Region. Agoristenidae fam. n. and Caribbantinae subfam. n. *Věstník Československé Společnosti Zoologické*, 37: 110–143.
- Šilhavý, V. 1979. New American representatives of the subfamily Samoinae (Opiliones, Phalangodidae, Arach.). *Annotationes zoologicae et botanicae, Bratislava*, 130: 1–27.
- Simon, E. 1864. *Histoire naturelle des Araignées (Aranéides)*. Paris, 540 pp.
- Simon, E. 1874. *Les arachnides de France. Tome 1*. Paris, 272 pp.
- Simon, E. 1876a. *Les Arachnides de France. Tome 3*. Paris, 360 pp.
- Simon, E. 1876b. Etude sur les Arachnides du Congo. *Bulletin de la Société zoologique de France*, 1: 12–15, 216–224.
- Simon, E. 1879a. *Les Arachnides de France VII. Contenant les ordres des Chernetes, Scorpiones et Opiliones*. Paris, : 332 pp. oder 79-115.??

- Simon, E. 1879b. Essai d'une classification des Opiliones Mecostethi. Remarques synonymiques et descriptions d'espèces nouvelles. *Annales de la Société Entomologique de Belgique*, 22: 183–241.
- Simon, E. 1880. Études arachnologiques 12e Mémoire(1). XVII. Descriptions de Genres et Espèces de l'ordre des Scorpiones. *Annales de la Société Entomologique de France*, (5)10: 377–398.
- Simon, E. 1881. *Les Arachnides de France. Tome 5, 1^{re} partie*. Paris, 179 pp.
- Simon, E. 1882. Etudes arachnologiques. 13^e Mémoire. 20. Descriptions d'espèces et de genres nouveaux de la famille des Dysderidae. *Annales de la Société Entomologique de France*, (6) 2: 201–240.
- Simon, E. 1884a. Note synonymique sur les genres *Prodidomus* Hentz et *Miltia* E.S. *Annales de la Société Entomologique de Belgique*, 28: 302.
- Simon, E. 1884b. Note complémentaire sur la famille des Archaeidae. *Annali del Museo Civico di Storia Naturale di Genova*, 20: 373–380.
- Simon, E. 1884c. *Les Arachnides de France. Tome 5, 2^e et 3^e parties*. Paris, pp. 180–808.
- Simon, E. 1884d. Description d'une nouvelle famille de l'ordre des Araneae (Bradystichidae). *Annales de la Société Entomologique de Belgique*, 28: 297–301.
- Simon, E. 1885a. Etudes arachnologiques. 17e Mémoire. XXVI. Arachnides recueillis dans la vallée de Templé et sur le mont Ossa (Thessalie). *Annales de la Société Entomologique de France*, 5: 209–217.
- Simon, E. 1885b. Etude sur les Arachnides recueillis en Tunisie en 1883 et 1884 par MM. A. Letourneux, M. Sédillot et Valéry Mayet, membres de la Mission de l'Exploration scientifique de la Tunisie. *In Exploration scientifique de la Tunisie*, Paris, 55 pp.
- Simon, E. 1885c. Etudes arachnologiques. 18e Mémoire. XXVI. Matériaux pour servir à la fauna des Arachnides du Sénégal. (Suivi d'un appendice intitulé: Descriptions de plusieurs espèces africaines nouvelles). *Annales de la Société Entomologique de France*, 5: 345–396.
- Simon, E. 1887. Espèces et genres nouveaux de la famille des Sparassidae. *Bulletin de la Société zoologique de France*, 12: 466–474.
- Simon, E. 1888. Etudes arachnologiques. 21^e Mémoire. 29. Descriptions d'espèces et de genres nouveaux de l'Amérique centrale et des Antilles. *Annales de la Société Entomologique de France*, (6) 8: 203–216.
- Simon, E. 1889a. Etudes arachnologiques. 21^e Mémoire. 31. Descriptions d'espèces et de genres nouveaux de Madagascar et de Mayotte. *Annales de la Société Entomologique de France*, (6) 8: 223–236.
- Simon, E. 1889b. Arachnides. *In Voyage de M. E. Simon au Venezuela (décembre 1887 – avril 1888)*. 4^e Mémoire. *Annales de la Société Entomologique de France*, (6) 9: 169–220.
- Simon, E. 1890. Etudes arachnologiques. 22^e Mémoire. 34. Etude sur les Arachnides de l'Yemen. *Annales de la Société Entomologique de France*, 10: 77–124.
- Simon, E. 1891a. Observations biologiques sur les Arachnides. I. Araignées sociables. *In Voyage de M. E. Simon au Venezuela (Décembre 1887 – avril 1888)*. 11^e Mémoire. *Annales de la Société Entomologique de France*, 60: 5–14.

- Simon, E. 1891*b*. On the spiders of the Island of St. Vincent. Part I. *Proceedings of the Zoological Society of London*, 1891: 549–575.
- Simon, E. 1892*a*. Arachnides. In Raffray, A., Bolivar, I. & Simon, E. (eds) Etude sur les Arthropodes cavernicoles de île Luzon, Voyage de M. E. Simon aux îles Philippines (Mars et avril 1890). *Annales de la Société Entomologique de France*, 61: 35–52.
- Simon, E. 1892*b*. *Histoire naturelle des Araignées. Volume 1, part 1*. Roret, Paris, pp. 1–254.
- Simon, E. 1893. *Histoire naturelle des Araignées. Volume 1, part 2*. Roret, Paris, pp. 255–488.
- Simon, E. 1894. *Histoire naturelle des Araignées, Volume 1, part 3*. Roret, Paris, pp. 489–760.
- Simon, E. 1895. *Histoire naturelle des Araignées, Volume 1, part 4*. Roret, Paris, pp. 761–1084.
- Simon, E. 1896. Description d'un Arachnide cavernicole de l'Afrique australe. *Bulletin de la Société Entomologique de France*, 1869: 285–286.
- Simon, E. 1897*a*. *Histoire naturelle des Araignées, Volume 2, part 1*. Roret, Paris, 1–192.
- Simon, E. 1897*b*. On the Spiders of the Island of St. Vincent. Part III. *Proceedings of the Zoological Society of London*, 1897: 860–890.
- Simon, E. 1898*a*. *Histoire naturelle des Araignées, Volume 2, part 2*. Roret, Paris, 1–269.
- Simon, E. 1898*b*. Etude sur les Arachnides de la région des Maures (Var.) *Feuille des Jeunes Naturalistes*, (3) 29: 2–4.
- Simon, E. 1900. Descriptions d'arachnides nouveaux de la famille des Attidae. *Annales de la Société Entomologique de Belgique*, 44: 381–407.
- Simon, E. 1903. *Histoire naturelle des Araignées, Volume 2, part 4*. Roret, Paris, 669–1080.
- Simon, E. 1929. *Les Arachnides de France. Tome 6*. Paris, pp. 533–772.
- Simon, R. 1971. Neue Arthropodenfunde aus dem Stephan der Halleschen Mulde. *Bericht der Deutschen Gessellschaft für Geologische Wissenschaft, Reihe A: Geologie/Paläontologie*, 16: 53–62.
- Simonetta, A. M. & Delle Cave, L. 1978. Una possibile interpretazione filogenetica degli artropodi paleozoici. *Bollettino di zoologia*, 45: 87–90.
- Simpson, S. 1951. A new Eurypterid from the Upper Old Red Sandstone of Portishead. *Annals and Magazine of Natural History, series 12*, 4: 849–861.
- Siveter, D. J. & Selden, P. A. 1987. A new, giant xiphosurid from the lower Namurian of Weardale, County Durham. *Proceedings of the Yorkshire Geological Society*, 46: 153–168.
- Siveter, D. J., Sutton, M. D., Briggs, D. E. G. & Siveter, D. J. 2004. A Silurian sea spider. *Nature*, 431: 978–980.
- Sivhed, U. & Wallwork, J. A. 1978. An early Jurassic oribatid mite from southern Sweden. *Geologiska Föreningens I Stockholm Förhandlingar*, 100: 65–70.
- Smith, F. P. 1902. The spiders of Epping Forest. *Essex Naturalist*, 12: 181–201.
- Sørensen, W. E. 1884. Opiliones Laniatores (Gonyleptides W. S. Olim) Musei Hauniensis. *Naturhistorisk Tidsskrift, Kjøbenhavn, series 3*, 14: 555–646.

- Sørensen, W. 1886. Opiliones. pp. 53–86. In Koch, L. & Keyserling, E. (eds) *Die Arachniden Australiens nach der Natur Beschrieben und Abgebildet*. Bauer und Raspe, Nürnberg, xx pp.
- Sørensen, W. 1932. Descriptiones Laniatorum (Arachnidorum Opilionum Subordinis). (Opus posthum recognovit et editit Kai L. Henriksen). – *Kongelige Danske Videnskabernes Selskabs Skrifter - Naturvidenskab og Mathematisk Afdeling, København, ser. 9*, 3(4): 197–422.
- Soriano, C., Archer, M., Azar, D., Creaser, P., Delclòs, X., Godhelp, H., Hand, S., Jones, A., Nel, A., Nèraudeau, D., Ortega-Blanco, J., Pérez-de la Fuente, R., Perrichot, V., Saupe, E., Solòrzano-Kraemer, M., Taffreau, P. 2010. Synchrotron X-ray imaging on inclusions in amber. *Comptes Rendus Palevol*, 9, 361–368.
- Southcott, R. V. 1957a. Description of a new Australian raphignathoid mite, with remarks on the classification of the Trombidiformes (Acarina). *Proceedings of the Linnean Society of New South Wales*, 81(3): 306–312.
- Southcott, R.V. 1957b. On *Vatacarus ipoides* n. gen., n. sp. (Acarina: Trombidoidea). A new respiratory endoparasite from a Pacific sea-snake. *Transactions Royal Society South Australia*, 80: 165–176.
- Southcott, R. V. & Lange, R. T. 1971. Acarine and other microfossils from the Maslin eocene, South Australia. *Records of the South Australian Museum*, 16(xx): 1–21.
- Stahnke, H. L. 1940. The scorpions of Arizona. *Iowa State College Journal of Science*, 15: 101–103. [Thesis abstract.]
- Stainier, X. 1917. On a new eurypterid from the Belgian Coal Measures. *Quarterly Journal of the Geological Society*, 71: 639–647.
- Sterzel, J.T. 1918. Die organischen Reste des Kulms und Rotliegenden der Gegend von Chemnitz. *Abhandlungen der Königlich Sächsischen Gesellschaft der Wissenschaften, Mathematisch-physikalische Klasse*, 35: 1–315.
- Stock, J. H. 1954. Papers from Dr. Th. Mortensen's Pacific expedition 1914–1916. LXXVII. Pycnogonida from Indo-West-Pacific, Australian, and New-Zealand waters. *Videnskabelige Meddelelser fra Dansk naturhistorisk Forening*, 116(1): 1–168.
- Stott, C. A., Tetlie, O. E., Braddy, S. J., Nowlan, G. S., Glasser, P. M. & Devereux, M. G. 2005. A new eurypterid (Chelicerata) from the Upper Ordovician of Manitoulin Island, Ontario, Canada. *Journal of Paleontology*, 79: 1166–1174.
- Størmer, L. 1934a. Downtonian Merostomata from Spitsbergen with remarks on the suborder Synziphosura. *Skrifter utgitt av Det Norske Videnskaps-Akademi i Oslo, I. Matem.-Naturvid. Klasse*, 1933(3): 1–26.
- Størmer, L. 1934b. Merostomata from the Downtonian Sandstones of Ringerike, Norway. *Skrifter utgitt av Det Norske Videnskaps-Akademi i Oslo, I. Matem.-Naturvid. Klasse*, 1933(10): 1–125.
- Størmer, L. 1934c. Über den neuen von W. Gross beschriebenen Eurypteriden aus dem Unterdevon von Overath im Rheinland. *Jahrbuch der Preussischen Geologischen Landesanstalt*, 55: 284–291.
- Størmer, L. 1934d. A new Eurypterid from the Saaremaa-(Oesel-)Beds in Estonia. *Publications of the Geological Institution of the University of Tartu*, 37: 1–8.

- Størmer, L. 1936a. Eurypteriden aus dem Rheinischen Unterdevon. *Abhandlungen der Preussischen Geologischen Landesanstalt, Neue Folge*, 175: 1–74.
- Størmer, L. 1936b. *Mixopterus dolichoshelus* (Laurie MS), a Downtonian eurypterid from Scotland. *Summary of Progress of the Geological Survey for 1934*: 41–46.
- Størmer, L. 1951. A new eurypterid from the Ordovician of Montgomeryshire, Wales. *Geological Magazine*, 88: 409–422.
- Størmer, L. 1952. Phylogeny and taxonomy of fossil horseshoe crabs. *Journal of Paleontology*, 26: 630–639.
- Størmer, L. 1963. *Gigantoscrapio willsi*, a new scorpion from the Lower Carboniferous of Scotland and its associated preying microorganisms. *Skrifter Utgitt av det Norske Videnskaps-Akademi I Oslo. Matematisk-Naturvidenskabelig Klasse*, 8: 1–171.
- Størmer, L. 1969. Eurypterids from the Lower Devonian of Willwerath, Eifel. *Senckenbergiana lethaea*, 50: 21–35.
- Størmer, L. 1970. Arthropods from the Lower Devonian (Lower Emsian) of Alken an der Mosel, Germany. Part 1: Arachnida. *Senckenbergiana lethaea*, 51: 335–369.
- Størmer, L. 1972. Arthropods from the Lower Devonian (Lower Emsian) of Alken an der Mosel, Germany. Part 2: Xiphosura. *Senckenbergiana lethaea*, 53: 1–29.
- Størmer, L. 1973. Arthropods from the Lower Devonian (Lower Emsian) of Alken an der Mosel, Germany. Part 3: Eurypterida, Hughmilleridae. *Senckenbergiana lethaea*, 54: 119–205.
- Størmer, L. 1974. Arthropods from the Lower Devonian (Lower Emsian) of Alken an der Mosel, Germany. Part 4: Eurypterida, Drepanopteridae, and other groups. *Senckenbergiana lethaea*, 54: 359–451.
- Størmer, L. 1976. Arthropods from the Lower Devonian (Lower Emsian) of Alken an der Mosel, Germany. Part 5: Myriapoda and additional forms, with general remarks on the fauna and problems regarding invasion of land by arthropods. *Senckenbergiana lethaea*, 57: 87–183.
- Størmer, L. & Waterston, C. D. 1968. *Cyrtoctenus* gen. nov., a large late Palaeozoic arthropod with pectinate appendages. *Transactions of the Royal Society Edinburgh*, 68: 63–104.
- Strand, E. 1926. Miscellanea nomenclatorial zoologica et palaeontologica. I–II. *Archiv für Naturgeschichte A*, 92(8): 30–75.
- Strand, E. 1929. Zoological and palaeontological nomenclatorial notes. *Acta Universitatis Latviensis*, 20: 29 pp.
- Strand, E. 1932. Miscellanea nomenclatorial zoologica et palaeontologica, III, IV. *Folia zoologica et hydrobiologica*, 4: 133–147, 193–196.
- Strand, E. 1942. Miscellanea nomenclatorial zoologica et palaeontologica. *Folia Zoologica et Hydrobiologica*, 11: 386–402.
- Straus, A. 1967. Zur Paläontologie des Pliozäns von Willershausen. *Berichte der Naturhistorischen Gesellschaft Hannover*, 111: 15–24.
- Strenzke K. 1954. *Nematolychus nematoides* n. gen. n. sp. (Acarina, Trombidiformes) aus dem Grundwasser der algerischen Kuste. *Vie et Milieu*, 4: 638–647.

- Strenzke, K. 1963. Entwicklung und Verwandtschaftsbeziehungen der Oribatidengattung *Gehyochthonius* (Arach., Acari). *Senckenbergiana Biologica*, 44: 231–255.
- Stumm, E. C. & Kjellesvig-Waering, E. N. 1962. A new eurypterid from the Upper Silurian of southern Michigan. *Contributions from the Museum of Paleontology, The University of Michigan*, 17: 195–204.
- Stur, D. 1877. Die Culm-Flora der Ostrauer und Waldenburger Schichten. *Abhandlung der königliche geologische Reichanstalt*, 4: 5.
- Subías, L. S. 2004. Listado sistemático, sinonímico y biogeográfico de los ácaros oribátidos (Acariformes: Oribatida) del mundo. *Graellsia* 60 (número extraordinario), 3–305. Available from: <http://www.ucm.es/info/zoo/Artropodos/Catalogo.pdf>.
- Subías, L. S. & Arillo, A. 2002. Oribatid mite fossils from the Upper Devonian of South Mountain, New York and the Lower Carboniferous of County Antrim, Northern Ireland (Acariformes, Oribatida). *Estudios del Museo de Ciencias Naturales de Alava*, 17: 93–106.
- Sundevall, J.C. 1833. *Conspectus Arachnidium*. C. F. Berling, Londini Gothorum, 39 pp.
- Swartz, C. K. 1923. Order Eurypterida. 716–778. In Swartz, C. K., Prouty, W. F., Ulrich, E. O. & Bassler, R. S. (eds). *Silurian Volume*. Maryland Geological Survey, 795 pp.
- Taczanowski, L. 1879. Les aranéides du Pérou central (suite). *Horae Societatis entomologicae Rossicae*, 15: 102–136.
- Tasch, P. 1961. Paleolimnology: part 2 – Harvey and Sedgwick counties, Kansas: stratigraphy and biota. *Journal of Paleontology*, 35: 836–865.
- Tasch, P. 1963. Paleolimnology: part 3 – Marion and Dickinson counties, Kansas, with additional sections in Harvey and Sedgwick counties: stratigraphy and biota. *Journal of Paleontology*, 37: 1233–1251.
- Tesakov, A. S. & Alekseev, A.S. 1992. Myriapod-like arthropods from the Lower Devonian of central Kazakhstan. *Paleontological Journal*, 26: 18–23.
- Tesakov, A. S. & Alekseev, A.S. 1998. *Maldybulakia* – new name for *Lophodesmus* Tesakov and Alekseev, 1992 (Arthropoda). *Paleontological Journal*, 32: 29.
- Tetlie, O. E. 2002. A new *Baltoeurypterus* (Eurypterida: Chelicerata) from the Wenlock of Norway. *Norwegian Journal of Geology*, 82: 37–44.
- Tetlie, O. E. 2006a. Two new Silurian species of *Eurypterus* (Chelicerata: Eurypterida) from Norway and Canada and the phylogeny of the genus. *Journal of Systematic Palaeontology* 4: 397–412.
- Tetlie, O. E. 2006b. Eurypterida (Chelicerata) from the Welsh Borderlands, England. *Geological Magazine*, 143: 723–735.
- Tetlie, O. E. & Braddy, S.J. 2004. The first Silurian chasmataspid, *Loganamaraspis dunlopi* gen. et sp. nov. (Chelicerata: Chasmataspidida) from Lesmahagow, Scotland, and its implications for eurypterid phylogeny. *Transactions of the Royal Society of Edinburgh, Earth Sciences*, 94: 227–234.

- Tetlie, O. E. & Briggs, D. E. G. 2009. The origin of pterygotid eurypterids (Chelicerata: Eurypterida). *Palaeontology*, 52: 1141–1148.
- Tetlie, O. E. & Dunlop, J. A. 2008. *Geralinura carbonaria* (Arachnida; Uropygi) from Mazon Creek, Illinois, USA, and the origin of subchelate pedipalps in whip scorpions. *Journal of Paleontology*, 82: 299–312.
- Tetlie, O. E. & Van Roy, P. 2006. A reappraisal of *Eurypterus dumonti* Stainier, 1917 and its position within the Adelophthalmidae Tollerton, 1989. *Bulletin de l'Institut Royal des Sciences Naturelles de Belgique, Sciences de la Terre* 76: 79–90.
- Tetlie, O. E. & Poschmann, M. 2008. Phylogeny and palaeoecology of the Adelophthalmoidea (Arthropoda; Chelicerata; Eurypterida). *Journal of Systematic Palaeontology*, 6: 237–249.
- Tetlie, O. E., Selden, P. A. & Ren D. 2007. A new Silurian eurypterid (Arthropoda: Chelicerata) from China. *Palaeontology*, 50: 619–625.
- Tetlie O. E., Braddy, S. J., Butler, P.D. & Briggs, D.E.G. 2004. A new eurypterid (Chelicerata: Eurypterida) from the Upper Devonian Gogo Formation of Western Australia, with a review of the Rhenopteridae. *Palaeontology* 47: 801–809.
- Thevenin, A. 1901. Sur le découverte d'arachnides dans le Terrain Houiller de Commeny. *Bulletin de la Société Géologique de France, 4^e Série*, 1: 605–611.
- Thevenin, A. 1902. Sur une araignée du terrain houiller der Valenciennes. *Procès-Verbaux de la Société d'Histoire Naturelle de Autun*, 15: 195–203.
- Thompson, W. D'Arcy 1909. Pycnogonida. In Harmer, S. F. & Shipley, B. E. (eds). *The Cambridge Natural History*, pp. 501–542.
- Thor, S. 1900 (?). Norske hydrachnider IV. – *Archiv för Matematik og Naturvidenskab* 23: 1-56.
- Thor, S. 1905. Eine interessante neue Milbengattung aus der schweizerischen Sammlung des Herrn Dr. W. Volz. *Zoologischer Anzeiger*, 28: 505–509.
- Thor, S. 1911a. *Lebertia*-Studien XXIV–XXV. *Zoologischer Anzeiger*, 37: 385–394.
- Thor, S. 1911b. Eine neue Acarinenfamilie (Teneriffiidae) und zwei neue Gattungen, die eine von Teneriffa, die andre aus Paraguay. *Zoologischer Anzeiger*, 38: 171–179.
- Thor, S. 1927. Acarinologische Notizen. *Zoologischer Anzeiger*, 72: 155–159.
- Thor, S. 1933. Über die prostigmatische Familie: Eupodidae C.L.Koch 1842 und über die Teilung dieser Familie, mit Definitionen der neuen Familien. *Zoologischer Anzeiger*, 101: 271–277.
- Thor, S. 1934. Neue Beiträge zur Kenntnis der invertibraten Fauna von Svalbard. (Nach Sammlungen von Garteninspektor L. Lange, Dozent B. Lynge und dem Verfasser.). *Zoologischer Anzeiger*, 107: 114–139.
- Thor, S. 1935. Übersicht und Einteilung der Familie Trombidiidae W.E. Leach 1814 in Unterfamilien. *Zoologischer Anzeiger*, 109: 107–112.
- Thor, S. 1937. Übersicht der norwegischen *Cryptostigmata* mit einzelnen Nebenbemerkungen. *Saertrykk av Nytt Magasin for Naturvidenskapene*, 77: 275–307.

- Thorell, T. 1856. Recensio critica Araneorum Suecicarum quas descripserunt Clerckius, Linnaeus, de Geerus. *Nova Acta Societas Scientiae Uppsalensis*, 2: 61–176.
- Thorell, T. 1869. On European spiders. Part I. Review of the European genera of spiders, preceded by some observations on zoological nomenclature. *Nova Acta Societas Scientiae Uppsalensis*, (3)7: 1–108.
- Thorell, T. 1870a. On European spiders. Part 2. *Nova Acta Societas Scientiae Uppsalensis*, (3)7: 109–242.
- Thorell, T. 1870b. *Remarks on synonyms of European spiders. Part I.* Uppsala, pp. 1–96.
- Thorell, T. 1873. *Remarks on synonyms of European spiders. Part IV.* Uppsala, pp. 375–645.
- Thorell, T. 1875. Diagnoses Araneorum Europaeorum aliquot novarum. *Tijdschrift voor Entomologie*, 18: 81–108.
- Thorell, T. 1876a. Études Scorpiologiques. *Atti della Società Italiana di Scienze Naturali*, 19: 75–272.
- Thorell, T. 1876b. On the classification of scorpions. *Annals and Magazine of Natural History, series 4*, 17: 1–15.
- Thorell, T. 1876c. Sopra alcuni Opilioni (Phalangidea) d'Europa e dell'Asia occidentale, con un quadro dei generi europei di quest'Ordine. *Annali del Museo Civico di Storia Naturale (Genoa) series 1*, 8: 452–508.
- Thorell, T. 1881. Studi sui Ragni Malesi e Papuani. III. Ragni dell'Austro Malesia e del Capo York, conservati nel Museo civico di storia naturale di Genova. *Annali del Museo Civico di Storia Naturale di Genova*, 17: 1–727.
- Thorell, T. 1882. Descrizione di Alcuni Aracnidi Inferiori dell' Arcipelago Malese. *Annali del Museo Civico di Storia Naturale di Genova*, 18: 21–69.
- Thorell, T. 1887. Viaggio di L. Fea in Birmania e regioni vicine. II. Primo saggio sui ragni birmani. *Annali del Museo Civico di Storia Naturale di Genova*, 25: 5–417.
- Thorell, T. 1888. Pedipalpi e Scorpioni dell'Arcipelago Malese conservati nel Museo Civico di Storia Naturale di Genova. *Annali del Museo Civico di Storia Naturale di Genova*, 26: 327–428.
- Thorell, T. 1889. Viaggio di Leonardo Fea in Birmania e regioni vicine. XXI. Aracnidi Artrogastri Birmani raccolti da L. Fea nel 1885–1887. *Annali del Museo Civico di Storia Naturale di Genova*, 27: 521–729.
- Thorell, T. 1890. Studi sui ragni Malesi e Papuani. Part IV, 1. *Annali del Museo Civico di Storia Naturale di Genova*, 28: 1–419.
- Thorell, T. 1891. Spindlar från Nikobarerna och andra delar af södra Asien. *Bihang till Kongl. Svenska Vetenskaps-Akademiens Handlingar*, 24: 149 pp.
- Thorell, T. & Lindström, G. 1884. Discovery of a Silurian fossil scorpion. *The Glasgow Herald*, Dec. 19, 1884.
- Thorell, T. & Lindström, G. 1885. On a Silurian scorpion from Gotland. *Bihang till Kongl. Svenska Vetenskaps-Akademiens Handlingar*, 21(9): 1–33.
- Tollerton, V. P., Jr. 1989. Morphology, taxonomy, and classification of the order Eurypterida Burmeister, 1843. *Journal of Paleontology*, 63: 642–657.
- Trägårdh, I. 1902. Beiträge zur Kenntnis der schwedischen Acaridenfauna. *Bihang till Kongliga Svenska Vetenskaps-Akademiens Handlingar*, 28: 1–26.

- Trägårdh, I. 1915. Bidrag till kännedomen om spinnkvalstren (*Tetranychus* Duf.). *Centralanstalten för försöksväsendet på jordbruksområdet. Entomologiska avdelningen*, 20: 1–60.
- Trägårdh, I. 1946. Outlines of a new classification of the Mesostigmata (Acarina) based on comparative morphological data. *Lunds Universitets Arsskrift, N.F.* 42: ??
- Trägårdh, I. 1950. Description of a new species of *Heterocheylus* Lombardini from Africa, with notes on the classification of the Pseudocheyletidae. *Entomologisk tidskrift*, 71: 104–110.
- Travé, J. 1959. Sur le genre *Niphocephus* Balogh 1943. Les Niphocephidae, famille nouvelle (Acariens, Oribates). *Acarologia*, 1: 475–498.
- Travé, J. 1967. *Phyllochthonius aoutii* nov. gen., nov. spec., un Enarthronota (Acarien, Oribate) nouveau de Côte d'Ivoire, avec la création d'une superfamille nouvelle, Phyllochthonoidea. *Zoologische Mededelingen*, 42: 83–105.
- Treat, A. E. 1955. An ectoparasite (Acarina: Mesostigmata) from moths of the genus *Zale*. *Journal of Parasitology* 41: 555–561.
- Türk, E. 1963. A new tyroglyphid deutonymph in amber from Chiapas, Mexico. *University of California Publications in Entomology* 31: 49–51.
- Ubick, D. & Dunlop, J. A. 2005. On the placement of the Baltic amber harvestman *Gonyleptes nemastomoides* Koch & Berendt, 1854, with notes on the phylogeny of Cladonychiidae (Opiliones, Laniatores, Travunioidea). *Mitteilungen aus dem Musuem für Naturkunde Berlin, Geowissenschaftliche Reihe* 8: 75–82.
- Vachon, M. & Heyler, D. 1985. Description d'une nouvelle espèce de Scorpion: *Buthiscorpius pescei* (Stéphaniens de Montceau-les-Mines, France). Remarques sur la classification des Scorpions (Arachnida) du Carbonifère. *Bulletin de la Société d'Histoire Naturelle d'Autun* 113: 29–47.
- Vaillant, L. 1909. Observations paléontologiques faites dans les Sables éocènes landéniens aux environs d'Arras. *Bulletin de la Société Géologique de France, 4^e Ser.*, 9: 277–282.
- Vandenbergh, A. 1960. *Pringlia demaisteri* nov. sp., un xiphosure (Chélicérate) du Stéphaniens de la Loire. – *Bulletin de la Société géologique de France*, 7: 687–689.
- Vercammen-Grandjean, P. H. 1973. Study of the "Erythraeidae, R.O.M. No. 8" of Ewing, 1937. 329–335. In Daniel, M. and Rosický, B. (eds). *Proceedings of the 3rd International Congress of Acarology*. Academia, Prague, 837 pp.
- Via Boada, L. & Villalta, J. F. de 1966. *Hetrolimulus gadeai*, nov. gen., nov. sp., représentant d'une nouvelle famille de Limulacés dans le Trias d'Espagne. *Comptes Rendues Sommaire Séances Société Géologique France*, 1966: 57–59.
- Viets, K. O. 1978. New water mites (Hydrachnellae: Acari) from Australia. *Australian Journal of Marine and Freshwater Research*, 29: 77–92.

- Villalta, J. F. 1957. Dos zoocecidias fósiles del Mioceno de Cerdaña (prov. de Lérida). *Cursillos y conferencias del Instituto Lucas Mallada*, 4: 63–64.
- Vitzthum, H. Graf 1931. Acari=Milben. In Kükenthal, W. (ed.) *Handbuch der Zoologie, Vol. III 2. 3.* Walter de Gruyter & Co., Berlin, pp. 1–160.
- Vitzthum, H. G. 1942. Acarina. In *Bronn's Klassen und Ordnungen des Tierreiches, IV. Abt., 5. Buch, 5. Lieferung* (1942), Leipzig, Akademische Verlagsgesellschaft Becker u. Erler: pp. 641–800.
- Waddington, J. Rudkin, D. M. & Dunlop, J. A. 2015. A new mid-Silurian aquatic scorpion—one step closer to land? *Biology Letters*, 11: 20140815.
- Wagner, W. A. 1887. Copulationsorgane des Männchens als Criterium für die Systematik der Spinnen. *Horae Societatis Entomologicae Rossicae*, 22: 3-132.
- Walcott, C. D. 1882. Description of a new genus of the order Eurypterida from the Utica Slate. *American Journal of Science, 3rd Series*, 23: 213–216.
- Walckenaer, C. A. 1802. *Faune parisienne. Insectes. Ou Histoire abrégée des Insectes des environs de Paris.* Paris, 2: 187–250.
- Walckenaer, C. A. 1805. *Tableau des Aranéides ou Caractères essentiels des tribus, genres, familles et races que renferme le genre Aranea de Linné, avec la désignation des espèces comprises dans chacune de ces divisions.* Paris, 88 pp.
- Walckenaer, C. A. 1826. Aranéides. In *Faune française...*, Paris: 96 pp.
- Walckenaer, C. A. 1837. *Histoire naturelle des insectes. Aptères. Vol. 1.* Librairie Encyclopédique de Roret, Paris, 682 pp.
- Walker, N. A. 1965. Euphthiracaroida of California Sequoia litter : with a reclassification of the families and genera of the world (Acarina: Oribatei). *Fort Hays Studies, New Series, Science Series*, 3: 154 pp.
- Wallwork, J. A. 1963. The Oribatei (Acari) of Macquarie Island. *Pacific Insects*, 5: 721-769
- Walossek, D., Li, C.S. & Brauckmann, C. 1990. A scorpion from the Upper Devonian of Hubei Province, China (Arachnida, Scorpiones). *Neues Jahrbuch für Geologie und Paläontologie, Monatshefte*, 1990(3): 169–180.
- Waloszek, D. & Dunlop, J. A. 2002. A larval sea spider (Arthropoda: Pycnogonida) from the Upper Cambrian 'Orsten' of Sweden and the phylogenetic position of pycnogonids. *Palaeontology*, 45: 421–446.
- Walter, D. E. 1997. Heatherellidae – a new family of Mesostigmata (Acari: Parasitiformes) based on two new species from rainforest litter in Australia. *International Journal of Acarology*, 23: 167–175.
- Walter, D. E. 2000. A jumping mesostigmatan mite, *Saltiseius hunteri* n. g., n. sp. (Acari: Mesostigmata: Trigynaspida: Saltiseiidae, n. fam.) from Australia. *International Journal of Acarology*, 26: 25–31.
- Walter, D. E. & Gerson, U. 1998. Dasythyreidae, new family, and *Xanthodasythyreus* n. g. (Acari: Prostigmata: Raphignathoidea) from Australia. *International Journal of Acarology*, 24: 189–197.

- Walter, D. E. & Krantz, G. W. 1999. New early derivative mesostigmatans from Australia: *Nothogynus* n. g., *Nothogynidae* n. fam. (Mesostigmata: Microgyniina). *International Journal of Acarology*, 25: 67–76.
- Wang, B., Dunlop, J. A., Selden, P. A. Garwood, R. J., Shear, W. A., Müller, P. & Lei, X.-j. 2018. Cretaceous arachnid *Chimerarachne yingi* gen. et sp. nov. illuminates spider origins. *Nature Ecology and Evolution*, 2: 614–622.
- Waterston, C. D. 1962. *Pagea sturrocki* gen. et sp. nov., a new eurypterid from the Old Red Sandstone of Scotland. *Palaeontology*, 5: 137–148.
- Waterston, C. D. 1964. Observations on pterygotid eurypterids. *Transactions of the Royal Society of Edinburgh*, 66: 9–33.
- Waterston, C. D. 1968. Further observations on the Scottish Carboniferous eurypterids. *Transactions of the Royal Society of Edinburgh*, 68: 1–20.
- Waterston, C. D. 1979. Problems of functional morphology and classification in stylonurid eurypterids (Chelicerata, Merostomata), with observations on the Scottish Stylonuroidea. *Transactions of the Royal Society of Edinburgh: Earth Sciences*, 70: 251–322.
- Waterston, C. D. 1985. Chelicerata from the Dinantian of Fouldon, Berwickshire, Scotland. *Transactions of the Royal Society of Edinburgh: Earth Sciences*, 76: 25–33.
- Waterston, C. D., Oelofsen, B. W. and Ooshuizen, R. D. F. 1985. *Cyrtoctenus wittebergensis* sp. nov. (Chelicerata: Eurypterida), a large sweep-feeder from the Carboniferous of South Africa. *Transactions of the Royal Society of Edinburgh: Earth Sciences*, 76: 339–358.
- Watson, D. M. S. 1909. *Limulus woodwardi*, sp. nov., from the Lower Oolite of England. *Geological Magazine, New Series*, (5) 6: 14–15.
- Waterlot, G. 1934. *Étude de la Faune continentale du Terrain houiller Sarro-Lorrain – Études des gîtes minéraux de la France. Bassin houiller de la Sarre et de la Lorraine II. Faune fossile*. Lille, 317 pp.
- Weidner, H. 1964. Eine Zecke, *Ixodes succineus* sp. n. im Batischen Bernstein. *Veröffentlichungen aus dem Überseemuseum Bremen*, 3: 143–151.
- Weitschat, W. & Wichard, W. 2002. *Atlas of plants and animals in Baltic amber*. Dr. F. Pfeil, Munich, 256 pp.
- Westring, N. 1851. Förteckning öfver de till närvarande tid Kände, i Sverige förekommande Spindlarter, utgörande ett antal af 253, deraf 132 äro nya för svenska Faunan. *Göteborgs Kungliga Vetenskaps- och Vitterhets-Samhälles handlingar*, 2: 25–62.
- Westwood, J. O. 1835. Insectorum Arachnoidumque novorum Decades duo. *The Zoological Journal, London*, 5: 440–453.
- Westwood, J. O. 1874. *Thesaurus entomologicus oxoniensis*. Clarendon Press, Oxford, xx pp.
- Weyenbergh, H., Jr 1874. Notes sur quelques insectes du calcaire jurassique de la Bavière. *Archives Musée Teyler, Haarlem*, 3: 234–236.

- Weygoldt, P. 1996. Evolutionary morphology of whip spiders: towards a phylogenetic system (Chelicerata: Arachnida: Amblypygi). *Journal of Zoological Systematics and Evolutionary Research*, 34: 185–202.
- Weygoldt, P. & Paulus, H.F. 1979. Untersuchungen zur Morphologie, Taxonomie und Phylogenie der Chelicerata. *Zeitschrift für zoologische Systematik und Evolutionsforschung*, 17: 85–115, 177–200.
- White, D. 1908. Report on the fossil flora of the Coal Measures of Brazil. 377–607. In White, J. C. (ed.). *Final report on the coal measures and associated rocks of South Brazil*. Comissão de Estudos das Minas de Carvão de Pedra Do Brazil, Rio de Janeiro.
- Whiteaves, J. F. 1884. On some new, imperfectly characterized or previously unrecorded species of fossils from the Guelph Formations of Ontario. *Palaeozoic Fossils of Canada*, 3(1):1–43
- Whitfield, R. P. 1882. Descriptions of new species of fossils from Ohio, with remarks on some of the geological formations in which they occur. *Annals of the New York Academy of Science*, 2: 193–244.
- Whitfield, R. P. 1885a. An American Silurian scorpion. *Science*, 6: 87–88.
- Whitfield, R. P. 1885b. On a fossil scorpion from the Silurian rocks of America. *Bulletin of the American Museum of Natural History*, 1(9): 181–190.
- Wiles, P. R. 1996. A new family, genus and species of watermite (Acari: Hydrachnidia, Lebertioidea) from Brunei. *Quekett Journal of Microscopy*, 37: 692–695.
- Willard, B. 1933. A new Chemung Eurypterid from Pennsylvania. *American Midland Naturalist*, Vol. 14(1), pp. 52–57
- Williams, H. 1915. An eurypterid horizon in the Niagara Formation of Ontario. *Geological Survey of Canada, Museum Bulletin*, 20: 1–9.
- Willmann, C. 1931b. Oribatei (Acari), gesammelt von der Deutschen Limnologischen Sunda-Expedition. *Archiv für Hydrobiologie*, Supplement-Band IX: 240–305.
- Wills, L. J. 1910. On the fossiliferous Lower Keuper rocks of Worcestershire, with descriptions of some of the animals discovered therein. *Proceedings of the Geologists' Association*, 21: 249–331.
- Wills, L. J. 1947. *A monograph of the British Triassic scorpions*. The Palaeontographical Society, London, 100 & 101: 137 pp.
- Wills, L. J. 1959. The external anatomy of some Carboniferous “scorpions” Part 1. *Palaeontology*, 1: 261–282.
- Wills, L. J. 1960. The external anatomy of some Carboniferous “scorpions”. Part 2. *Palaeontology*, 3: 276–332.
- Wilson, E. B. 1878. Descriptions of two new genera of Pycnogonida. *American Journal of Science*, 15: 200–203.
- With, C. J. 1902. A new acaride *Opilioacarus segmentatus*. *Comptes Rendus du Congrès des Naturalistes et Médecins du Nord*, 20: 4–5.
- With, C. J. 1906. The Danish expedition to Siam 1899–1900. III. Chelonethi. An account of the Indian false-scorpions together with studies on the anatomy and classification of the order. *Oversight over det Kongelige Danske Videnskabernes Selskabs Forhandlinger*, 7(3): 1–214.

- Witaliński, W. 2000. *Aclerogamasus stenocornis* sp. n., a fossil mite from the Baltic amber (Acari: Gamasida: Parasitidae). *Genus*, 11: 619–626.
- Wolff, R.J. 1990. A new species of *Thiodina* (Araneae: Salticidae) from Dominican amber. *Acta Zoologica Fennica*, 190: 405–408.
- Womersley, H. 1956. On some new Acarina-Mesostigmata from Australia, New Zealand and New Guinea. *Zoological Journal of the Linnean Society of London*, 42: 505–599.
- Womersley, H. 1957. A fossil mite (*Acronothrus ramus* n.sp.) from Cainozoic resin at Allendale, Victoria. *Proceedings of the Royal Society of Victoria* 69: 21–23.
- Wood, T. G. 1969. The Homocaligidae, a new family of mites (Acari: Raphignathoidea), including a description of a new species from Malaya and the British Solomon Islands. *Acarologia*, 11: 711–729.
- Woodward, H. 1865. On a new genus of Eurypterida from the Lower Ludlow rock of Leintwardine, Shropshire. *Quarterly Journal of the Geological Society of London*, 21: 490–492.
- Woodward, H. 1868a. On a new limuloid crustacean (*Neolimulus falcatus*) from the Upper Silurian of Lesmahagow, Lanarkshire. *Geological Magazine*, 5: 1–3.
- Woodward, H. 1870. On *Necrogammarus salweyi* (H. Woodward), an amphipodus crustacean from the Lower Ludlow of Leintwardine. *Transactions of the Woolhope Naturalists Field Club*, 1870: 271–272.
- Woodward, H. 1871a. On the remains of a giant isopod *Praearcturus gigas*, (H. Woodward) from the Old Red Sandstone of Rowlestone Quarry, Herefordshire. *Transactions of the Woolhope Field Naturalist's Club*, 1871: 266–270.
- Woodward, H. 1871b. On the discovery of a new and very perfect Arachnide from the ironstone of the Dudley Coal-field. *Geological Magazine*, 8: 385–388.
- Woodward, H. 1872a. Notes on some British Palaeozoic Crustacea belonging to the order Merostomata. *Geological Magazine*, 9: 433–441.
- Woodward, H. 1872b. On a new Arachnide from the Coal-measures of Lancashire. *Geological Magazine*, 9: 385–387.
- Woodward, H. 1876. On the discovery of a fossil scorpion in the British Coal Measures. *Quarterly Journal of the Geological Society of London* 32: 57–59.
- Woodward, H. 1878b. Discovery of the remains of a fossil crab (Decapoda-Bracyura) in the Coal Measures of the Environs of Mons, Belgium. *Geological Magazine, new series, Decade 2*, 5: 433–436.
- Woodward, H. 1879. Contributions to the knowledge of fossil Crustacea. *Quarterly Journal of the Geological Society London*, 35: 549–555.
- Woodward, H. 1887. On a new species of *Eurypterus* from the Lower Carboniferous shales of Glencartholm, Eskdale, Scotland. *Geological Magazine, Decade 3*, 4: 481–484.
- Woodward, H. 1888. Note on *Eurypterus* from the Carboniferous. *Geological Magazine, Decade 3*, 5: 419–421.

- Woodward, H. 1907a. Two new species of *Eurypterus* from the Coal-Measures of Ilkeston, Derbyshire. *Geological Magazine*, 4: 277–282.
- Woodward, H. 1907b. Further notes on the Arthropoda of the British Coal Measures. *Geological Magazine*, 4: 539–549.
- Woodward, H. 1918. Fossil arthropods from the Carboniferous rocks of Cape Breton, Nova Scotia; and from the Upper Coal Measures, Sunderland, England. *Geological Magazine*, 5: 462–471.
- Woolley, T. A. 1969. Two new species of *Hydrozetes*, extant and fossil (Acari: Cryptostigmata, Hydrozetidae). *New York Entomological Society*, 77: 250–256.
- Woolley, T. A. 1971. Fossil oribatid mites in amber from Chiapas, Mexico (Acarina: Oribatei = Cryptostigmata). *University of California Publications in Entomology*, 63: 91–99.
- Woolley, T. A. & Higgins, H. G. 1966. Xenillidae, a new family of oribatid mites (Acari: Cryptostigmata). *Journal of the New York Entomological Society*, 74: 201–221.
- Woolley, T. A. & Higgins, H. G. 1968. Megeremaeidae: A New Family of Oribatid Mites (Acari: Cryptostigmata). *Great Basin Naturalist*, 28(4): 172–175.
- Wright, D. F. & Selden, P. A. 2011. A trigonotarbid arachnid from the Pennsylvanian of Kansas. *Journal of Paleontology*, 85: 871–876.
- Wunderlich, J. 1981. Fossile Zwergsechsaugenspinnen (Oonopidae) der Gattung *Orchestina* Simon, 1882 in Bernstein mit Anmerkungen zur Sexual-biologie (Arachnida: Araneae). *Mitteilungen aus dem Geologisch-Paläontologischen Institut der Universität Hamburg*, 51: 83–113.
- Wunderlich, J. 1982. Die häufigsten Spinnen (Araneae) des Dominikanischen Bernsteins. *Neue Entomologische Nachrichten*, 1: 26–45.
- Wunderlich, J. 1985. Ein bisher unbekannte fossile Krabbenspinne aus dem Randecker Maar in Südwest-Deutschland (Arachnida: Araneae: Thomisidae). *Neue Entomologische Nachrichten*, 14: 4–13.
- Wunderlich, J. 1986. *Spinnenfauna Gestern und Heute. Fossile Spinnen in Bernstein und ihre heute lebenden Verwandten*. Erich Bauer Verlag bei Quelle und Meyer, Wiesbaden, 283 pp.
- Wunderlich, J. 1987. *Tama minor n. sp.*, eine fossile Spinnenart der Familie Hersiliidae in Dominikanischem Bernstein (Arachnida: Araneae). *Entomologische Zeitschrift*, 97: 93–96.
- Wunderlich, J. 1988. Die fossilen Spinnen im dominikanischen Bernstein. *Beiträge zur Araneologie*, 2: 1–378.
- Wunderlich, J. 1991. Beschreibung der ersten fossilen Spinne der Familie Leptonetidae: *Eoleptona kutscheri* n. gen., n. sp. in Sächsischem Bernstein (Arachnida: Araneae). *Entomologische Zeitschrift*, 101: 21–26.
- Wunderlich, J. 1993a. Die ersten fossilen Speispinnen (Fam. Scytodidae) im Baltischen Bernstein (Arachnida: Araneae). *Mitteilungen aus dem Geologisch-Paläontologischen Institut der Universität Hamburg*, 75: 243–247.

- Wunderlich, J. 1993b. Die ersten fossilen Becherspinnen (Fam. Cyatholipidae) in Baltischem und Bitterfelder Bernstein (Arachnida: Araneae). *Mitteilungen aus dem Geologisch-Paläontologischen Institut der Universität Hamburg*, 75: 231–241.
- Wunderlich, J. 1998. Beschreibung der ersten fossilen Spinnen der Unterfamilien Mysmeninae (Anapidae) und Erigoninae (Linyphiidae) im Dominikanischen Bernstein (Arachnida: Araneae). *Entomologische Zeitschrift*, 108: 363–367.
- Wunderlich, J. 2000. Zwei neue Arten der Familie Falltürspinnen (Araneae: Ctenizidae) aus dem Baltischen Bernstein. *Entomologische Zeitschrift*, 110: 345–348.
- Wunderlich, J. 2004a. Introduction, general findings and conclusions. In Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 5–329.
- Wunderlich, J. 2004b. The fossil mygalomorph spiders (Araneae) in Baltic and Dominican amber and about extant members of the family Micromygalidae. In Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 595–631.
- Wunderlich, J. 2004c. Fossil spiders (Araneae) of the superfamily Dysderoidea in Baltic and Dominican amber, with revised family diagnoses. In Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 633–746.
- Wunderlich, J. 2004d. Fossil and extant spiders (Araneae) of the superfamily Eresoidea s.l., with special reference to the Archaeidae and remarks on some higher taxa of the superfamily Araneoidea. In Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 747–808.
- Wunderlich, J. 2004e. On selected higher and lower taxa of fossil and extant spiders of the superfamily Oecobioidea, with a provisional Cladogram (Araneae: Hersiliidae and Oecobiidae). In Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 809–848.
- Wunderlich, J. 2004f. Fossil spiders of the family Uloboridae (Araneae) in Baltic and Dominican amber. In Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 851–886.
- Wunderlich, J. 2004g. The fossil spiders of the family Deinopidae in Baltic and Dominican amber. In Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 887–897.
- Wunderlich, J. 2004h. The fossil spiders (Araneae) of the families Tetragnathidae and Zygellidae n. stat. in Baltic and Dominican amber, with notes on higher extant and fossil taxa. In Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 899–955.
- Wunderlich, J. 2004i. Fossil taxa of the family Araneidae (Araneae) inclusively Nephilinae in Baltic and Dominican amber, with the description of a new extinct subfamily and notes on selected extant taxa. In Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 956–997.
- Wunderlich, J. 2004j. The fossil Theridiosomatidae (Araneae) in Baltic and Dominican amber. In Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 998–1019.
- Wunderlich, J. 2004k. The fossil spiders of the family Anapidae s. l. (Aeaneae [sic]) in Baltic, Dominican and Mexican amber and their extant relatives, with the description of a new subfamily Comarominae. In Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1020–1111.

- Wunderlich, J. 2004*l*. On the relationships of the families of the superfamily Araneoidea (Araneae) and their kin, with cladograms, remarks on the origin of the orb web and description of the new and extinct families Baltsuccinidae and Protheridiidae in Tertiary Baltic amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1112–1154.
- Wunderlich, J. 2004*m*. The fossil spiders (Araneae) of the family Cyatholipidae in Baltic amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1155–1188.
- Wunderlich, J. 2004*n*. The fossil spiders (Araneae) of the family Synotaxidae in Baltic amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1189–1239.
- Wunderlich, J. 2004*o*. Remarks on the fossil spiders (Araneae) of the family Nesticidae in amber, with the description of a new species in Baltic amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1240–1244.
- Wunderlich, J. 2004*p*. Remarks on fossil spiders (Araneae) of the family Theridiidae in Baltic and Dominican amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1245–1248.
- Wunderlich, J. 2004*q*. Fossil pirate spiders (Araneae: Araneoidea: Mimetidae s. l.) in Baltic and Dominican amber, with notes on intrafamilial higher taxa. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1249–1278.
- Wunderlich, J. 2004*r*. Descriptions of the first fossil spiders (Araneae) of the family Pimoidae in Baltic amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1279–1297.
- Wunderlich, J. 2004*s*. The fossil spiders of the family Linyphiidae in Baltic and Dominican amber (Araneae: Linyphiidae). *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1298–1373.
- Wunderlich, J. 2004*t*. No proof of fossil spiders (Araneae) of the family Psecridae in Baltic amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1375–1376.
- Wunderlich, J. 2004*u*. Fossil spiders of the family Amaurobiidae (Arachnida: Araneae) in Baltic and Dominican amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1377–1379.
- Wunderlich, J. 2004*v*. Fossil spiders of the family Dictynidae s. l., including Cryphoecinae and Hahniinae in Baltic and Dominican amber and copal from Madagascar, and on selected extant Holarctic taxa, with new descriptions and diagnoses. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1380–1482.
- Wunderlich, J. 2004*w*. Fossil spiders (Araneae) of the family Agelenidae s. str. in Baltic amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1483–1488.
- Wunderlich, J. 2004*x*. The fossil Zoropsidae in Baltic amber with revised diagnoses of the family Zoropsidae and its fossil and extant higher taxa. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1489–1522.
- Wunderlich, J. 2004*y*. Spiders (Araneae) of the extinct family Insecutoridae Petrunkevitch 1942 in Baltic amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1523–1531.
- Wunderlich, J. 2004*z*. Fossil spiders of the family Pisauridae (Araneae) in Baltic and Dominican amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1532–1541.

- Wunderlich, J. 2004aa. Members of the family Trechaleidae (Araneae) in Baltic and Dominican amber? *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1542–1553.
- Wunderlich, J. 2004ab. Fossil spiders (Araneae) of the family Oxyopidae in Baltic and Dominican amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1554–1556.
- Wunderlich, J. 2004ac. Proof of presence of the family Lycosidae (Araneae) in Baltic and Dominican amber? *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1557–1558.
- Wunderlich, J. 2004ad. Fossil spiders (Araneae) of the extinct family Ephalmatoridae Petrunkevitch 1950 in Baltic amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1559–1577.
- Wunderlich, J. 2004ae. Fossil spiders (Araneae) of the family Zodariidae in Baltic amber, with remarks on their subfamilies including the Cryptothelinae and the Homalonychinae. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1578–1611.
- Wunderlich, J. 2004af. Fossil spiders (Araneae) of the families Clubionidae and Miturgidae (questionable) in Baltic and Dominican amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1612–1622.
- Wunderlich, J. 2004ag. The fossil spiders of the family Liocranidae in Baltic and Dominican amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1623–1635.
- Wunderlich, J. 2004ah. Fossil spiders of the family Corinnidae in Baltic and Dominican amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1636–1680.
- Wunderlich, J. 2004ai. Fossil spiders (Araneae) of the family Gnaphosidae in Baltic and Dominican amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1681–1685.
- Wunderlich, J. 2004aj. Fossil spiders (Araneae) of the family Anyphaenidae in Baltic and Dominican amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1686–1688.
- Wunderlich, J. 2004ak. Members of the family Philodromidae (Araneae) in Baltic amber? *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1689–1693.
- Wunderlich, J. 2004al. Fossil spiders (Araneae) of the family Sparassidae in Baltic and Dominican amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1694–1698.
- Wunderlich, J. 2004am. Fossil spiders of the family Trochanteriidae (Araneae) in Baltic, Dominican and Mexican amber, with a revision of the genus *Sosybius* Koch and Berendt 1854. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1699–1732.
- Wunderlich, J. 2004an. Fossil spiders of the family Selenopidae in Dominican amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1733–1736.
- Wunderlich, J. 2004ao. The new spider (Araneae) family Borboropactidae from the tropics and fossil in Baltic amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1737–1746.
- Wunderlich, J. 2004ap. Fossil crab spiders (Araneae: Thomisidae) in Baltic and Dominican amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1747–1760.

- Wunderlich, J. 2004aq. Fossil jumping spiders (Araneae: Salticidae) in Baltic and Dominican amber, with remarks on Salticidae subfamilies. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1761–1819.
- Wunderlich, J. 2004ar. Fossil spiders (Araneae) in Early Tertiary amber from the Ukraine. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1821–1829.
- Wunderlich, J. 2004as. Subrecent spiders (Araneae) in copal from Madagascar, with description of new species. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1830–1853.
- Wunderlich, J. 2004at. Two new fossil spider species in Copal from Colombia (Araneae: Oonopidae and Dictynidae). *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1854–1859.
- Wunderlich, J. 2004au. Description of two fossil taxa of spiders (Araneae: Oonopidae, Pholcidae) in Chinese amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1860–1863.
- Wunderlich, J. 2004av. Report on spider (Araneae) of the families Araneidae and Zygellidae in Lebanese amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1864–1865.
- Wunderlich, J. 2006. *Spatiator martensi* n. sp., a second species of the extinct spider species Spatiatoridae in Eocene Baltic amber. *Zootaxa*, 1325: 313–318.
- Wunderlich, J. 2008a. Descriptions of fossil spider (Araneae) taxa mainly in Baltic amber, as well as certain related extant taxa. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 5: 44–139.
- Wunderlich, J. 2008b. On extant and fossil (Eocene) European comb-footed spiders (Araneae: Theridiidae), with notes on their subfamilies, and with descriptions of new taxa. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 5: 140–469.
- Wunderlich, J. 2008c. On extant and fossil members of the RTA-clade in Eocene European ambers of the families Borboropactidae, Corinnidae, Selenopidae, Sparassidae, Trochanteriidae, Zoridae s. l., and of the superfamily Lycosoidea. *In* Wunderlich, J. (ed.) *Beiträge zur Araneologie*, 5: 470–523.
- Wunderlich, J. 2008d. The dominance of ancient spider families of the Araneae: Haplogyne in the Cretaceous, and the late diversification of advanced ecribellate spiders of the Entelegynae after the Cretaceous–Tertiary boundary extinction events, with descriptions of new families. *In* Wunderlich, J. (ed.) *Beiträge zur Araneologie*, 5: 524–675.
- Wunderlich, J. 2011a. On extant European spiders of the tribe Mangorini (Araneae: Araneidae) and two doubtful taxa in Baltic amber. *Beiträge zur Araneologie*, 6: 9–18.
- Wunderlich, J. 2011b. Taxonomy of extant and fossil (Eocene) European ground spiders of the family Gnaphosidae (Araneae), with a key to the genera, and descriptions of new taxa. *Beiträge zur Araneologie*, 6: 19–97.
- Wunderlich, J. 2011c. Spiders of the family Prodidomidae (Araneae) from Europe and Madagascar. *Beiträge zur Araneologie*, 6: 98–107.
- Wunderlich, J. 2011d. On extant and fossil (Eocene) Holarctic sac spiders (Araneae: Clubionidae), with descriptions of new taxa. *Beiträge zur Araneologie*, 6: 121–157.

- Wunderlich, J. 2011e. New extant taxa of the spider family Theridiosomatidae (Araneae) from Laos and on some fossil taxa. *Beiträge zur Araneologie*, 6: 427–444.
- Wunderlich, J. 2011f. Some subrecent spiders (Araneae) in copal from Madagascar. *Beiträge zur Araneologie*, 6: 445–460.
- Wunderlich, J. 2011g. Some fossil spiders in Dominican amber (Araneae: Hersiliidae, Theridiidae, Gnaphosidae). *Beiträge zur Araneologie*, 6: 461–471.
- Wunderlich, J. 2011h. Some fossil spiders (Araneae) in Eocene European ambers. *Beiträge zur Araneologie*, 6: 472–538.
- Wunderlich, J. 2011i. Some fossil spiders (Araneae) in Cretaceous ambers. *Beiträge zur Araneologie*, 6: 539–557.
- Wunderlich, J. 2012a. New subrecent species in copal from Madagascar, and on the relationships of the Copaldictyninae Wunderlich 2004 (Araneae: Linyphiidae, Theridiidae, Dictynidae, and Titanoecidae). In Wunderlich, J. (ed.) *Beiträge zur Araneologie*, 7: 75–88.
- Wunderlich, J. 2012b. New fossil spiders (Araneae) in Eocene amber from the Ukraine. In Wunderlich, J. (ed.) *Beiträge zur Araneologie*, 7: 89–93.
- Wunderlich, J. 2012c. New fossil spiders (Araneae) of eight families in Eocene Baltic amber, and revisions of selected taxa. In Wunderlich, J. (ed.) *Beiträge zur Araneologie*, 7: 94–149.
- Wunderlich, J. 2012d. On the fossil spider (Araneae) fauna in Cretaceous ambers, with descriptions of new taxa from Burmese (Burma) and Jordan, and on the relationships of the superfamily Leptonetoidea. In Wunderlich, J. (ed.) *Beiträge zur Araneologie*, 7: 157–232.
- Wunderlich, J. 2012e. Description of the first fossil Ricinulei in amber from Burma (Burmese), the first report of this arachnid order from the Mesozoic and from Asia, with notes on the related extinct order Trigonotarbida. In Wunderlich, J. (ed.) *Beiträge zur Araneologie*, 7: 233–244.
- Wunderlich, J. 2012f. Corrections and addenda to vol. 6 of the Beitr. Araneol. (2011). In Wunderlich, J. (ed.) *Beiträge zur Araneologie*, 7: 245–246.
- Wunderlich, J. 2015a. Description of an unusual fossil crab spider (Araneae: Thomisidae s. l.: Stephanopinae) in Eocene Baltic Amber. In Wunderlich, J. (ed.) *Beiträge zur Araneologie*, 9: 7–14.
- Wunderlich, J. 2015b. On the evolution and the classification of spiders, the Mesozoic spider faunas, and descriptions of new Cretaceous taxa mainly in amber from Myanmar (Burma) (Arachnida: Araneae). In Wunderlich, J. (ed.) *Beiträge zur Araneologie*, 9: 21–408.
- Wunderlich, J. 2015c. New and rare fossil Arachnida in Cretaceous Burmese Amber (Amblypygi, Ricinulei and Uropygi: Thelephonida). In Wunderlich, J. (ed.) *Beiträge zur Araneologie*, 9: 409–436.
- Wunderlich, J. 2017a. New fossil spiders of three families in Eocene Baltic amber and Bitterfeld amber, with notes on phylogeny and relationships of the Zoropsidae (Araneae: Anapidae, Spatiatoridae and Zoropsidae). In Wunderlich, J. (ed.) *Beiträge zur Araneologie*, 10: 14–47.

- Wunderlich, J. 2017b. New extinct taxa of the arachnid order Ricinulei, based on new fossils preserved in mid Cretaceous Burmese amber. *In* Wunderlich, J. (ed.) *Beiträge zur Araneologie*, 10: 48–71.
- Wunderlich, J. 2017c. New and rare fossil spiders (Araneae) in mid Cretaceous amber from Myanmar (Burma), including the description of new extinct families of the suborders Mesothelae and Opisthothelae as well as notes on the taxonomy, the evolution and the biogeography of the Mesothelae. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 10: 72–279.
- Wunderlich, J. 2017d. Description of a derived spider taxon in Ethiopian amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 10: 280–284.
- Wunderlich, J. & Milki, R. 2004. Description of the extinct new subfamily Microsegestriinae (Araneae: Segestriidae) in Cretaceous Lebanese Amber. *In* Wunderlich, J. (ed.). *Beiträge zur Araneologie*, 3: 1867–1873.
- Žabka, M. 1988. Fossil Eocene Salticidae (Araneae) from the collection of the Museum of Earth in Warsaw. *Annales Zoologici*, 41: 415–420.
- Zacharda, M. 1979. Strandtmanniidae – a new family of Eupodoidea (Acarina : Prostigmata). *Vestník Československé Společnosti Zoologické*, 43: 76–81.
- Zacharda, M. & Krivoluckij, D. A. 1985. Prostigmatic mites (Acarina: Prostigmata) from the Upper Cretaceous and Paleogene amber of the USSR. *Věstník Československé Společnosti Zoologické*, 49: 147–152.
- Zachvatkin, A. A. 1952. [The division of the Acarina into orders and their position in the system of the Chelicerata.] *Parazitologičeskii Sbornik Zoologičeskii Institut Akademii Nauk SSSR*, 14: 5–46. [in Russian]
- Zapfe, H. 1955. Filogenia y función en *Austrochilus manni* Gertsch y Zapfe (Araneae-Hypochilidae). *Trabajos del Laboratorio de Zoología de la Universidad de Chile*, 2: 1–53.
- Zhang, J., Sun, B. & Zhang, X. 1994. *Miocene insects and spiders from Shanwang, Shandong*. Science Press, Beijing, 298 pp. [in Chinese with English Summary].
- Zhang, Q.-y., Hu, S.-x., Zhou, C.-y., Lv, T. & Bai, J.-k. (2009): [New occurrence of Xiphosura in China.] *Progress in Nature Science*, 19: 1090–1093. [in Chinese]
- Zhang, Z.-Q. 1998: An unusual early-derivative larva of Parasitengona (Acari: Prostigmata) and proposal of a new superfamily. *Systematic & applied acarology*, 3: 159–170.
- Zhang, Z.-Q. & Fan, Q.-H. 2007. Allotanaupodidae, a new family of early derivative Parasitengona (Acari: Prostigmata). *Zootaxa*, 1517: 1–52.
- Zinken, C. 1862. *Limulus Decheni* aus dem Braunkohlensandstein bei Teuchern. *Zeitschrift für die Gesamten Naturwissenschaften*, 19: 329–331.
- Zittel, K. A. 1885. *Handbuch der Palaeontologie. I. Abtheilung, Palaeozoologie, 2 [Mollusca und Arthropoda]*. R. Oldenbourg, München, Leipzig, 893 pp.
- Zittel, K. A. & Eastman, C. R. 1913. *Textbook of Palaeontology (2nd Ed.) 1*. Macmillan, London, 839 pp.