

## **General patterns of the Lepidoptera fauna of Iran\***

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## CHAPTER 4

## General patterns of the Lepidoptera fauna of Iran\*

HOSSEIN RAJAEI<sup>1</sup>, SAJAD NOORI<sup>1</sup>, OLE KARSHOLT<sup>2</sup> & REZA ZAHIRI<sup>3</sup>

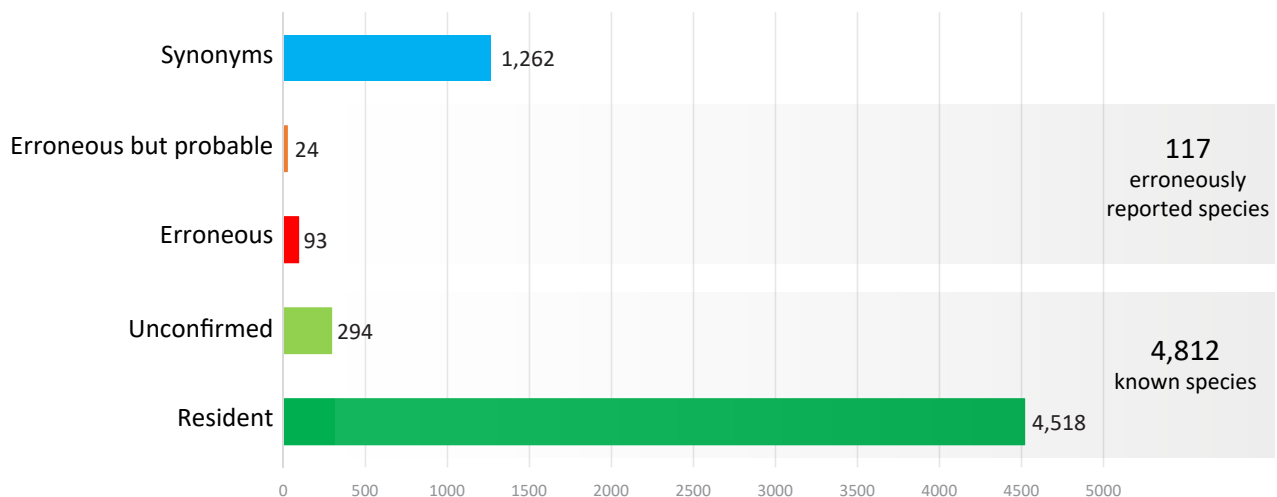
The main purpose of this catalogue was to improve our knowledge of the Lepidoptera fauna of Iran and acquire a better knowledge of the patterns of distribution of this large insect order within the country. These patterns not only show the large-scale structure of the faunal elements of this order in Iran, but also highlight research gaps and other needs in Iranian lepidopterology, which should be addressed before we lose more habitats and species.

This chapter addresses questions such as: How many lepidopteran species are reported from Iran? How many of them are truly present in Iran? I.e., how many need further confirmation and how many have been erroneously reported? How many of the reported species are regarded as synonyms today? How are they systematically distributed (e.g., how many species are known per family)? How are they geographically distributed, both horizontally and vertically? Which taxonomic groups are especially in need of additional sampling efforts and taxonomic revisions? Finally, how many are endemic to Iran?

**Species diversity**

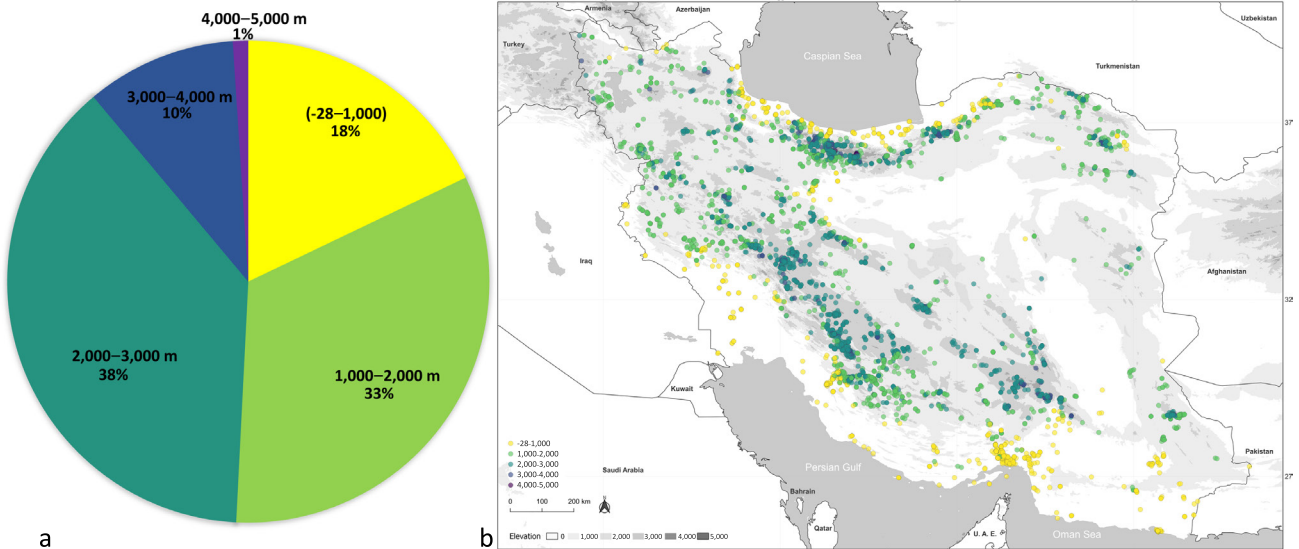
In total, 6,191 species-level names are listed in this catalogue as reported from Iran in the literature or for the first time in the present catalogue. Of these, 1,262 are regarded as junior synonyms and 117 as erroneously reported, although 24 are considered likely to occur in the country (see Appendix 1). Of the 4,812 remaining valid species, 4,517 are regarded as definitely resident in Iran, whereas 295 need further confirmation [see Fig. 1 and notes in RAJAEI et al. (2023)].

In total, we list 892 endemic species for Iran, corresponding to an endemism rate of 19.7% (Appendix 2). As can be observed in Fig. 2, over 70% of the endemic species have been collected at altitudes between 1,000 and 3,000 m. Isolation, by reducing gene flow, is an important driver of speciation, and higher per-species speciation rates caused by increasing isolation with elevation are assumed to be one of the most plausible explanations for the globally consistent pattern of higher endemism at

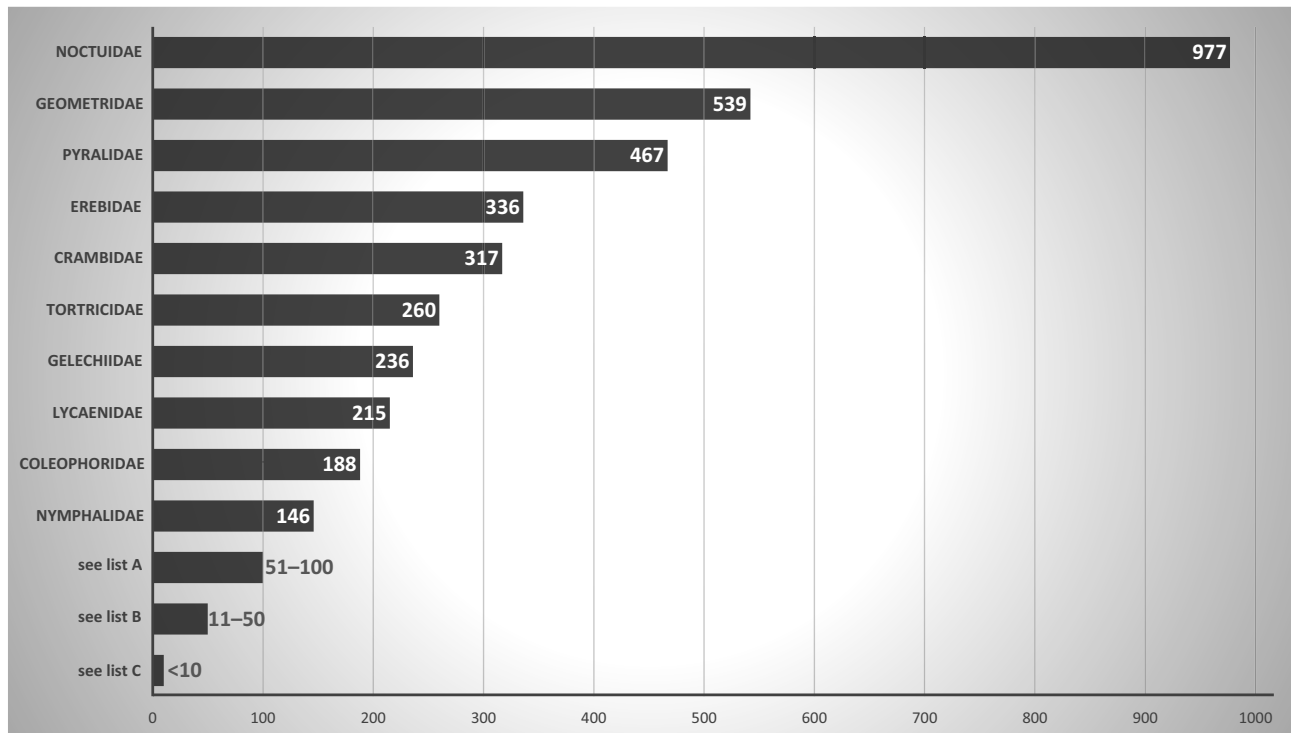


**Fig. 1.** Summary of the statuses in Iran of the lepidopteran species listed in this catalogue.

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**Fig. 2.** Elevational diversity gradients of the endemic Lepidoptera species of Iran. In (b), each dot represents a species record.



**List A:** AUTOSTICHIDAE, COSSIDAE, DEPRESSARIIDAE, GRACILLARIIDAE, PIERIDAE, PTEROPHORIDAE, SESIIDAE, TINEIDAE, ZYGAENIDAE.

**List B:** ALUCITIDAE, AUTOSTICHIDAE, BRACHODIDAE, BUCCULTRICIDAE, COSMOPTERIGIDAE, COSSIDAE, DEPRESSARIIDAE, ELACHISTIDAE, GRACILLARIIDAE, HESPERIIDAE, LASIOCAMPIDAE, MEESSIIDAE, NEPTICULIDAE, NOLIDAE, NOTODONTIDAE, OECOPHORIDAE, PAPILIONIDAE, PIERIDAE, PSYCHIDAE, PTEROPHORIDAE, SCYTHRIDIDAE, SESIIDAE, SPHINGIDAE, TINEIDAE, YPSOLOPHIDAE, ZYGAENIDAE.

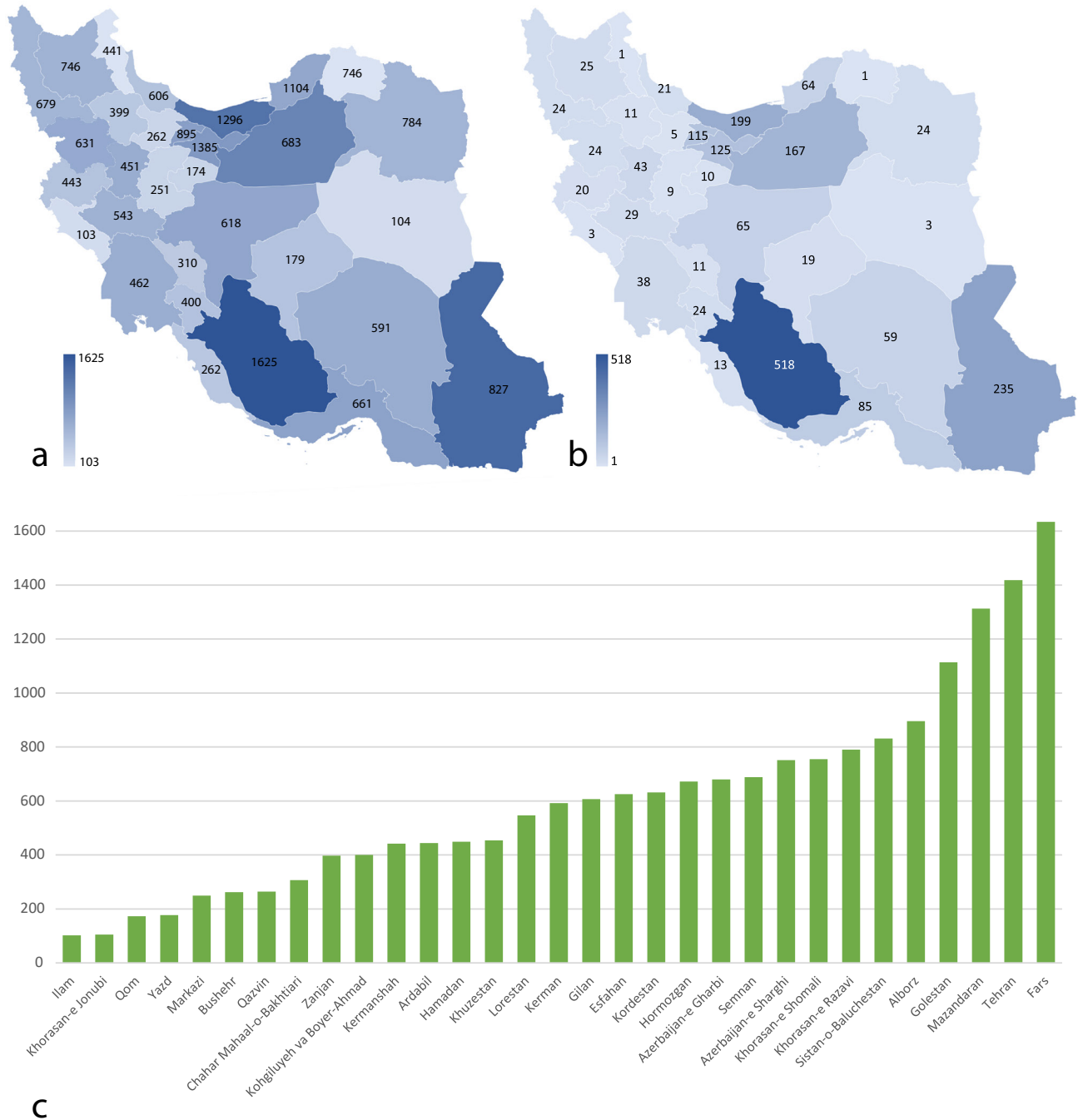
**List C:** ADELIDAE, ARGYRESTHIIDAE, BATRACHEDRIDAE, BEDELLIIDAE, BLASTOBASIDAE, BOMBYCIDAE, BRAHMAEIDAE, CARPOSINIDAE, CHOREUTIDAE, CIMELIIDAE, DOUGLASSIIDAE, DREPANIDAE, EPERMENIIDAE, EPIPYROPIDAE, ERIOCOTTIDAE, EUTELIIDAE, GALACTICIDAE, GLYPHIPTERIGIDAE, HELIODINIDAE, HELIOZELIDAE, HEPIALIDAE, LECITHOCERIDAE, LIMACODIDAE, LYONETIIDAE, LYPUSIDAE, MICROPTERIGIDAE, MOMPHEIDAE, PLUTELLIDAE, PTEROLONCHIDAE, SATURNIIDAE, STATHMOPODIDAE, TISCHERIIDAE, USTYURTIIDAE, YPONOMEUTIDAE.

**Fig. 3.** Number of known Lepidoptera species per family in Iran.

higher elevations (STEINBAUER et al. 2016). Phylogenetic evidence indicates that many high-elevation endemics across the globe are phylogenetically young taxa resulting from recent rapid diversification, e.g., in the New Zealand Alps (WINKWORTH et al. 2005), the Andes (HUTTER et al. 2013) and East Malaysia (MERCKX et al. 2015). These localized areas (i.e., type localities) can be used as a reference for future conservation initiatives.

**Distribution of species within families**

As can be observed in Appendix 1, some families are more species-rich than others. However, this pattern could simply be an artefact due to some taxonomic groups being less studied (e.g., the microlepidopteran families) when compared to other parts of the world (e.g., Europe or North America). In contrast, some families (e.g., Zygaenidae, Cos-



**Fig. 4.** Data on Iranian Lepidoptera, subdivided by province. **a.** Map showing number of recorded species per province. **b.** Map showing number of type localities per province. **c.** Bar chart showing number of recorded species per province.

sidae and nearly all Papilionoidea) are much better known. Fig. 3 shows the number of species per family in Iran.

### Horizontal and vertical distribution of Lepidoptera species in Iran



Not only have some lepidopteran lineages been incompletely studied in Iran (e.g., most microlepidopteran families), but some provinces have been insufficiently explored overall. The number of recorded species per province is shown in Appendix 3 and Fig. 4, where it is clear that several provinces (e.g., Ilam and Khorasan-e Jonubi) have been largely neglected in past taxonomic surveys. Of note, the Ilam province is located in a transitional zone between the Zagros Mts. and the desert plains of Iraq, and potentially contains a rich Lepidoptera fauna. Some other provinces (e.g., Ardabil and Khorasan-e Shomali), although much better studied, show a low number of type localities (Fig. 4b), which could be explained by intensive taxonomic studies on the other side of the national borders of Iran, e.g., in the Kopet-Dagh Mts. (Turkmenistan) and Azerbaijan Mts. (Azerbaijan).


Most lepidopterous larvae feed on living plants, many of them on a single plant species (monophagous) or a few related species (oligophagous), and their distribution is therefore dependent on the distribution of their host plants. Areas with a high diversity of plants have, in most cases, a correlatively high diversity of Lepidoptera. In some families of Lepidoptera (e.g., Gracillariidae, Tortricidae and Geometridae), the larvae of a majority of species feed on the leaves of deciduous trees. These families are thus most diverse in forested areas such as mountains and north-facing hills. The larvae of many species of Gelechiidae, Pyralidae and Noctuidae feed on low plants, often in dry areas, and these families are most diverse in steppes and semi-deserts.

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**Appendix 1.** Number of resident species (R) within each Lepidoptera family in Iran. Species requiring further confirmation (U) are also listed, together with erroneously reported species (E) and species erroneously reported but possibly occurring in the country (EP). Endemic species are listed in the last column.

Nr.	Family	R	U	E	EP	Endemic
1	Micropterigidae	2	-	-	-	-
2	Hepialidae	1	-	-	-	-
3	Nepticulidae	33	2	-	1	-
4	Heliozelidae	-	1	-	-	-
5	Adelidae	4	-	-	-	-
6	Tischeriidae	4	1	-	-	-
7	Meessiidae	11	-	-	-	4
8	Psychidae	14	1	1	-	7
9	Eriocottidae	1	-	-	1	-
10	Tineidae	66	7	-	1	9
11	Bucculatricidae	12	2	1	-	1
12	Gracillariidae	57	1	-	-	4
13	Bedelliidae	2	-	-	-	-
14	Heliodinidae	1	-	-	-	-
15	Lyonetiidae	3	-	-	-	1
16	Argyresthiidae	5	1	-	-	1
17	Yponomeutidae	4	-	-	-	-
18	Ypsolophidae	12	1	-	1	3
19	Plutellidae	5	1	-	-	3
20	Glyphipterigidae	4	-	-	-	-
21	Douglasiidae	6	-	-	-	-
22	Ustyurtiidae	1	-	-	-	1
23	Choreutidae	5	2	-	-	-
24	Galacticidae	2	-	-	-	1
25	Tortricidae	211	49	2	1	30
26	Cossidae	82	-	3	1	15
27	Sesiidae	55	4	4	-	12
28	Brachodidae	12	2	-	-	3
29	Zygaenidae	74	-	2	-	38
30	Limacodidae	2	-	-	-	-
31	Epipyropidae	1	-	-	-	1
32	Lecithoceridae	3	-	-	-	1
33	Autostichidae	59	1	1	-	36
34	Oecophoridae	9	8	-	-	5
35	Lypusidae	-	2	-	-	-
36	Depressariidae	65	10	-	1	8

Nr.	Family	R	U	E	EP	Endemic
37	Cosmopterigidae	32	1	-	-	4
38	Gelechiidae	209	27	2	-	25
39	Pterolonchidae	1	-	-	-	-
40	Elachistidae	12	-	1	-	5
41	Coleophoridae	181	7	-	-	35
42	Batrachedridae	1	-	-	-	-
43	Scythrididae	32	7	2	1	7
44	Stathmopodidae	5	-	-	-	1
45	Blastobasidae	1	-	-	-	-
46	Momphidae	1	1	-	-	-
47	Alucitidae	11	1	-	-	2
48	Pterophoridae	93	2	1	1	5
49	Carposinidae	2	1	1	-	2
50	Epermeniidae	7	-	-	-	-
51	Hesperiidae	41	1	3	-	-
52	Papilionidae	10	1	-	-	2
53	Pieridae	53	2	4	1	6
54	Lycaenidae	208	7	10	2	61
55	Nymphalidae	140	6	7	-	13
56	Pyralidae	455	12	3	-	130
57	Crambidae	315	2	4	1	66
58	Cimeliidae	1	-	-	-	-
59	Drepanidae	7	-	2	-	-
60	Lasiocampidae	38	1	4	-	8
61	Brahmaeidae	4	1	-	-	1
62	Bombycidae	1	-	-	-	-
63	Saturniidae	4	3	-	-	-
64	Sphingidae	33	-	1	-	-
65	Geometridae	474	65	9	4	114
66	Notodontidae	24	1	7	1	3
67	Erebidae	324	12	6	4	55
68	Euteliidae	2	-	-	-	-
69	Nolidae	26	2	-	-	1
70	Noctuidae	941	36	12	2	161
	<b>Totals</b>	<b>4,517</b>	<b>295</b>	<b>93</b>	<b>24</b>	<b>891</b>



## Appendix 2. List of endemic Lepidoptera species in Iran, sorted by family.

<p><b>MEESSIIDAE (4)</b>  <i>Infurcitinea fasciella</i> Gaedike, 1983  <i>Infurcitinea megalopterella</i> Petersen, 1964  <i>Infurcitinea obscuroides</i> Gaedike, 1983  <i>Infurcitinea teheranensis</i> Petersen, 1971</p>	<p><i>Cydia persica</i> (Kuznetsov, 1968)  <i>Diceratura keredjana</i> Razowski, 1963  <i>Diceratura teheranica</i> Razowski, 1970  <i>Dichrorampha iranica</i> Danilevsky &amp; Kuznetsov, 1968  <i>Epinotia safidana</i> Razowski, 1963  <i>Eucosma persiae</i> Razowski, 1963  <i>Gypsonoma ochrotona</i> Razowski, 1963  <i>Hedya tritofa</i> Alipanah &amp; Baixeras, 2011  <i>Pammene caliginosa</i> Kuznetsov, 1972  <i>Pammene festiva</i> Kuznetsov, 1972  <i>Phtheochroa purissima</i> (Osthelder, 1938)  <i>Thiodia confusana</i> Kuznetsov, 1972  <i>Thiodia elbursica</i> Kuznetsov, 1972  <i>Zeiraphera smaragdina</i> Razowski, 1963  <i>Zelotheres conscia</i> (Razowski, 1981)</p>
<p><b>PSYCHIDAE (7)</b>  <i>Amicta davarica</i> (Solyanikov, 2002)  <i>Amicta lutensis</i> Arnscheid, Rajaei &amp; Sobczyk, 2021  <i>Kalliesia irana</i> Sobczyk, 2004  <i>Oiketicoides schahkuhensis</i> (Heylaerts, 1885)  <i>Oiketicoides villosa</i> (Brandt, 1938)  <i>Placodoma eberti</i> Arnscheid, 2020  <i>Placodoma sobczyk</i> Arnscheid, 2020</p>	<p><b>COSSIDAE (15)</b>  <i>Barchaniella mus</i> (Grum-Grshimailo, 1902)  <i>Cossulus irani</i> (Daniel, 1937)  <i>Cossulus kopetdaghensis</i> Yakovlev &amp; Alipanah, 2021  <i>Cossulus zoroastres</i> (Grum-Grshimailo, 1902)  <i>Dyspessa alipanahae</i> Yakovlev, 2008  <i>Dyspessa ariadne</i> Yakovlev, 2008  <i>Dyspessa derbenti</i> Daniel, 1964  <i>Dyspessa elbursensis</i> Daniel, 1964  <i>Dyspessa serica</i> Brandt, 1938  <i>Dyspessa zurvan</i> Yakovlev, 2008  <i>Holcocerus witti</i> Yakovlev, Saldaitis &amp; Ivinskis, 2007  <i>Isoceras teheranica</i> Daniel, 1971  <i>Meharia avicenna</i> Yakovlev, 2011  <i>Meharia baluchestana</i> Alipanah &amp; Yakovlev, 2021  <i>Meharia tancredii</i> Sutton, 1963</p>
<p><b>TINEIDAE (9)</b>  <i>Anomalotinea iranica</i> (Petersen &amp; Gaedike, 1984)  <i>Ateliotum confusum</i> Petersen, 1966  <i>Edosa xerxes</i> (Petersen &amp; Gaedike, 1984)  <i>Euplocamus schaeferi</i> Amsel, 1959  <i>Kermania pistaciella</i> Amsel, 1964  <i>Neurothaumasia brandti</i> Petersen, 1966  <i>Neurothaumasia maculata</i> Petersen &amp; Gaedike, 1996  <i>Perissomastix falcata</i> Petersen, 1988  <i>Perissomastix laricola</i> Gaedike, 2019</p>	<p><b>SESIIDAE (12)</b>  <i>Bembecia molleti</i> Kallies &amp; Špatenka, 2003  <i>Chamaesphacia adelpha</i> Le Cerf, 1946  <i>Chamaesphacia fredii</i> Le Cerf, 1938  <i>Chamaesphacia inexpectata</i> (Le Cerf, 1938)  <i>Chamaesphacia keili</i> Kallies &amp; Špatenka, 2003  <i>Chamaesphacia leucocnemis</i> Le Cerf, 1938  <i>Chamaesphacia leucoparea</i> (Lederer, 1853)  <i>Chamaesphacia sefid</i> Le Cerf, 1938  <i>Chamaesphacia thomyris</i> Le Cerf, 1938  <i>Chamaesphacia xantho</i> Le Cerf, 1937  <i>Dipchasphecia consobrina</i> (Le Cerf, 1938)  <i>Tinthia mianjangalica</i> Lastuvka, 1995</p>
<p><b>BUCCULATRICIDAE (1)</b>  <i>Bucculatrix iranica</i> Deschka, 1981</p>	<p><b>BRACHODIDAE (3)</b>  <i>Brachodes formosa</i> (Amsel, 1953)  <i>Brachodes monotona</i> (Amsel, 1953)  <i>Brachodes rhagensis</i> (Lederer, 1870)</p>
<p><b>GRACILLARIIDAE (4)</b>  <i>Acrocercops iraniana</i> Triberti, 1989  <i>Aspilapteryx magna</i> Triberti, 1985  <i>Phyllonorycter iranica</i> Deschka, 1979  <i>Polymitia laristana</i> Triberti, 1986</p>	<p><b>ZYGAENIDAE (38)</b>  <i>Jordanita christinae</i> Keil, 1998  <i>Jordanita rietzschii</i> Keil, 2016  <i>Rhagades brandti</i> (Alberti, 1938)  <i>Rhagades tarmanni</i> Keil, 1999  <i>Zygaena aisha</i> Naumann &amp; Naumann, 1980  <i>Zygaena bakhtiyari</i> Hofmann &amp; Tremewan, 2005  <i>Zygaena cacuminum</i> Christoph, 1877  <i>Zygaena chirazica</i> Reiss, 1938  <i>Zygaena christa</i> Reiss &amp; Schulte, 1967  <i>Zygaena ecki</i> Christoph, 1882  <i>Zygaena essenii</i> Blom, 1973  <i>Zygaena fredii</i> Reiss, 1938  <i>Zygaena fusca</i> Hofmann, 2000  <i>Zygaena ginnereissi</i> Hofmann, 2000  <i>Zygaena kermanensis</i> Tremewan, 1975  <i>Zygaena manlia</i> Lederer, 1870  <i>Zygaena mirzayansi</i> Hofmann &amp; Keil, 2011  <i>Zygaena naumanni</i> Hille &amp; Keil, 1999  <i>Zygaena nocturna</i> Ebert, 1974  <i>Zygaena pseudorubicundus</i> Klir &amp; Naumann, 2002</p>
<p><b>LYONETHIDAE (1)</b>  <i>Phyllobrostis farsensis</i> Mey, 2006</p>	
<p><b>ARGYRESTHIIDAE (1)</b>  <i>Argyresthia mirabiella</i> Toll, 1948</p>	
<p><b>YPSOLOPHIDAE (3)</b>  <i>Ochsenheimeria chorasana</i> Zagulajev, 1988  <i>Ypsolopha kotschi</i> (Toll, 1948)  <i>Ypsolopha nervosellum</i> (Zerny, 1940)</p>	
<p><b>PLUTELLIDAE (3)</b>  <i>Baerenschenkia lamasi</i> Mey, 2022  <i>Deryaxenistis nekrutenkoi</i> Mey, 2022  <i>Paraxenistis ammolofo</i> Mey, 2022</p>	
<p><b>USTYURTIIDAE (1)</b>  <i>Karwandania chimabacchella</i> Amsel, 1959</p>	
<p><b>GALACTICIDAE (1)</b>  <i>Zarcinia</i> sp.</p>	
<p><b>TORTRICIDAE (30)</b>  <i>Aethes destituta</i> Razowski, 1983  <i>Aethes eberti</i> Sutter &amp; Karisch, 2004  <i>Aethes kandovana</i> Alipanah, 2009  <i>Aethes luteopictana</i> (Kennel, 1900)  <i>Aethes persica</i> Razowski, 1963  <i>Aethes shakibai</i> Huemer &amp; Wieser, 2004  <i>Argyroploce rhetorica</i> Meyrick, 1920  <i>Argyroploce vandarbana</i> Osthelder, 1938  <i>Choristoneura jecorana</i> (Kennel, 1899)  <i>Cnephasia razowskii</i> Alipanah, 2019  <i>Cochylimorpha brandti</i> (Razowski, 1963)  <i>Cochylimorpha elegans</i> (Razowski, 1963)  <i>Cochylimorpha pirizana</i> (Razowski, 1963)  <i>Cochylimorpha scrophulana</i> (Razowski, 1963)  <i>Cochylimorpha wiltshirei</i> (Razowski, 1963)</p>	

<p><i>Zygaena seitzi</i> Reiss, 1938  <i>Zygaena sengana</i> Holik &amp; Sheljuzhko, 1956  <i>Zygaena speciosa</i> Reiss, 1937  <i>Zygaena tenhagenova</i> Hofmann, 2005  <i>Zygaenoprocris duskei</i> (Grum-Grshimailo, 1902)  <i>Zygaenoprocris efetovi</i> Mollet &amp; Tarmann, 2007  <i>Zygaenoprocris fredii</i> (Alberti, 1939)  <i>Zygaenoprocris hasarani</i> Keil, 2020  <i>Zygaenoprocris hofmanni</i> Mollet &amp; Tarmann, 2007  <i>Zygaenoprocris khorassana</i> (Alberti, 1939)  <i>Zygaenoprocris kliri</i> Keil, 2002  <i>Zygaenoprocris molleti</i> Keil, 2020  <i>Zygaenoprocris persepolis</i> (Alberti, 1938)  <i>Zygaenoprocris puschmanni</i> Keil, 2020  <i>Zygaenoprocris rjabovi</i> (Alberti, 1938)  <i>Zygaenoprocris schahdadiani</i> Keil, 2020  <i>Zygaenoprocris taftana</i> (Alberti, 1939)  <i>Zygaenoprocris valii</i> Keil, 2020</p>	<p><i>Ethmia alba</i> (Amsel, 1949)  <i>Ethmia derbendella</i> Sattler, 1967  <i>Ethmia persica</i> Kun, 2007  <i>Ethmia sattleri</i> Kun, 2007</p>
<p><b>EPIPYROPIDAE (1)</b>  <i>Epimesophantia dlabolai</i> Krampfl, 1983</p>	<p><b>COSMOPTERIGIDAE (4)</b>  <i>Ascalenia imbellia</i> Kasy, 1974  <i>Ascalenia sirjanella</i> Kasy, 1975  <i>Pseudascalenia abbasella</i> Kasy, 1974  <i>Vulcaniella schultendorffi</i> (Amsel, 1959)</p>
<p><b>LECITHOCERIDAE (1)</b>  <i>Lecithocera persica</i> Gozmány, 1978</p>	<p><b>GELECHIIDAE (25)</b>  <i>Agnippe separatella</i> Bidzilya &amp; Li, 2010  <i>Anarsia belutschistanella</i> (Amsel, 1959)  <i>Deltophora beatrix</i> Sattler, 1979  <i>Filatima armata</i> Bidzilya &amp; Huemer, 2022  <i>Gnorimoschema elbursicum</i> Povolny, 1984  <i>Megacraspedus golestanicus</i> Huemer &amp; Karsholt, 2018  <i>Microlechia iranica</i> (Povolný, 1976)  <i>Ornativalva plicella</i> Sattler, 1976  <i>Ornativalva roseosuffusella</i> Sattler, 1967  <i>Ornativalva rufipuncta</i> Sattler, 1976  <i>Scrobipalpa albostrata</i> Povolný, 1977  <i>Scrobipalpa cryptica</i> Povolný, 1969  <i>Scrobipalpa helmuti</i> Povolny, 1977  <i>Scrobipalpa kasyvartianella</i> Povolný, 1967  <i>Scrobipalpa laisınca</i> Povolný, 1976  <i>Scrobipalpa nigromaculata</i> (Povolný, 2002)  <i>Scrobipalpa optima</i> Povolný, 1969  <i>Scrobipalpa oregata</i> Povolný, 1972  <i>Scrobipalpa scrobipalpulina</i> Povolný, 1967  <i>Spiniphallellus eberti</i> Bidzilya &amp; Karsholt, 2019  <i>Stomopteryx pallidella</i> Amsel, 1959  <i>Struempelia renatella</i> Amsel, 1977  <i>Telphusa pistaciae</i> Sattler, 1982  <i>Tricerophora acutivalva</i> Bidzilya &amp; Mey, 2018  <i>Vladimirea stepicola</i> Povolný, 1976</p>
<p><b>AUTOSTICHIDAE (36)</b>  <i>Acrosyntaxis anagramma</i> Gozmány, 2008  <i>Acrosyntaxis cyclacantha</i> Gozmány, 2008  <i>Acrosyntaxis micracantha</i> Gozmány, 2008  <i>Acrosyntaxis pilatus</i> (Gozmány, 1963)  <i>Acrosyntaxis rhyparastis</i> Gozmány, 2008  <i>Amselina adornata</i> Gozmány, 2008  <i>Amselina odynera</i> Gozmány, 2008  <i>Amselina stagonophora</i> Gozmány, 2008  <i>Concordaxis convergens</i> Gozmány, 2008  <i>Cyallaraxis cambyses</i> Gozmány, 2000  <i>Cyallaraxis cyrus</i> Gozmány, 2000  <i>Dysspastus mucronatus</i> Gozmány, 2008  <i>Orpecacantha multispina</i> Gozmány, 2008  <i>Orpecacantha pardalis</i> Gozmány, 2008  <i>Orpecovalva effendi</i> (Dozmány, 1963)  <i>Orpecovalva eremita</i> (Gozmány, 1963)  <i>Orpecovalva singularis</i> Gozmány, 2008  <i>Orpecovalva wiltshirei</i> (Gozmány, 1963)  <i>Symmoca capnistis</i> Gozmány, 2008  <i>Symmoca euxantha</i> Gozmány, 2008  <i>Symmoca forsteri</i> (Gozmány, 1963)  <i>Symmoca maga</i> (Gozmány, 1963)  <i>Symmoca megalomera</i> Gozmány, 2008  <i>Symmoca mithra</i> (Gozmány, 1963)  <i>Symmoca mithridates</i> (Gozmány, 1963)  <i>Symmoca multigrassa</i> Gozmány, 2008  <i>Symmoca persica</i> (Gozmány, 1963)  <i>Symmoca sahname</i> (Gozmány, 1963)  <i>Symmoca satrapa</i> (Gozmány, 1963)  <i>Symmoca sefidica</i> Gozmány, 2008  <i>Symmoca shahriar</i> Gozmány, 2008  <i>Symmoca sheherezade</i> (Gozmány, 1963)  <i>Symmoca sindbad</i> (Gozmány, 1963)  <i>Symmoca squalida</i> Gozmány, 2008  <i>Symmoca striolatella</i> Gozmány, 1963  <i>Symmoca vojnitisi</i> Gozmány, 2008</p>	<p><b>ELACHISTIDAE (5)</b>  <i>Elachista aeruginosa</i> Parenti, 1981  <i>Elachista cornuta</i> Parenti, 1981  <i>Elachista derbendi</i> Parenti, 1981  <i>Elachista semnani</i> Parenti, 1981  <i>Haplochrois sinevi</i> (Baldizzone, 1993)</p>
<p><b>OECOPHORIDAE (5)</b>  <i>Pleurota delattinia</i> Back, 1973  <i>Pleurota gnathella</i> Back, 1973  <i>Pleurota lineata</i> Toll, 1947  <i>Pleurota media</i> Back, 1973  <i>Pleurota persica</i> Back, 1973</p>	<p><b>COLEOPHORIDAE (35)</b>  <i>Coleophora accadica</i> Baldizzone, 1994  <i>Coleophora aculeata</i> Baldizzone, 1994  <i>Coleophora amphorella</i> Baldizzone, 1994  <i>Coleophora aporiella</i> Baldizzone, 1989  <i>Coleophora carmaniae</i> Baldizzone, 1994  <i>Coleophora coronata</i> Baldizzone, 1994  <i>Coleophora darica</i> Baldizzone, 1994  <i>Coleophora decoratella</i> Toll, 1959  <i>Coleophora elamita</i> Baldizzone, 1994  <i>Coleophora elbursella</i> Baldizzone, 1994  <i>Coleophora eumorphella</i> Baldizzone, 1994  <i>Coleophora flabelligerella</i> Rebel, 1919  <i>Coleophora flammea</i> Baldizzone, 1994  <i>Coleophora fusca</i> Toll, 1952  <i>Coleophora ganglionella</i> Baldizzone, 1994  <i>Coleophora hatamae</i> Toll, 1959  <i>Coleophora hieratica</i> Baldizzone, 1994  <i>Coleophora inclita</i> Baldizzone, 1994  <i>Coleophora inopinata</i> Baldizzone, 1994  <i>Coleophora kandevanella</i> Toll, 1952  <i>Coleophora kitella</i> Baldizzone, 1994  <i>Coleophora kotalensis</i> Baldizzone, 1994  <i>Coleophora makuensis</i> Baldizzone, 1994  <i>Coleophora minutula</i> Baldizzone, 1994  <i>Coleophora monstrosa</i> Baldizzone, 1994  <i>Coleophora namakella</i> Amsel, 1977  <i>Coleophora ovata</i> Baldizzone, 1994  <i>Coleophora parthica</i> Baldizzone, 1994  <i>Coleophora persana</i> Baldizzone, 1990</p>
<p><b>DEPRESSARIIDAE (8)</b>  <i>Agonopterix bakriella</i> Amsel, 1958  <i>Agonopterix demissella</i> Hannemann, 1958  <i>Agonopterix elbursella</i> Hannemann, 1976  <i>Agonopterix miyanella</i> Amsel, 1972</p>	



<p><i>Coleophora rostrata</i> Baldizzone, 1994  <i>Coleophora schaeuffelella</i> Toll, 1959  <i>Coleophora schahkuhensis</i> Toll, 1952  <i>Coleophora simplex</i> Baldizzone, 1994  <i>Coleophora sivandella</i> Toll, 1959  <i>Coleophora sobria</i> Baldizzone, 1994</p>	<p><i>Polyommatus femininoides</i> (Eckweiler, 1987)  <i>Polyommatus forsteri</i> (Pfeiffer, 1938)  <i>Polyommatus hamadanensis</i> (de Lesse, 1959)  <i>Polyommatus kashani</i> Eckweiler, 2013  <i>Polyommatus kendevari</i> (Forster, 1956)  <i>Polyommatus kermansis</i> (de Lesse, 1963)  <i>Polyommatus klausschuriani</i> ten Hagen, 1999  <i>Polyommatus lorestanus</i> Eckweiler, 1997  <i>Polyommatus lori</i> Eckweiler, 2013  <i>Polyommatus luna</i> Eckweiler, 2002  <i>Polyommatus masulensis</i> ten Hagen &amp; Schurian, 2000  <i>Polyommatus mofidii</i> (de Lesse, 1963)  <i>Polyommatus morgani</i> (Le Cerf, 1909)  <i>Polyommatus musa</i> Koçak &amp; Hosseinpour, 1996  <i>Polyommatus paulae</i> Wiemers &amp; De Prins, 2004  <i>Polyommatus peilei</i> Bethune-Baker, 1921  <i>Polyommatus pfeifferi</i> (Brandt, 1938)  <i>Polyommatus posthumus</i> (Christoph, 1877)  <i>Polyommatus pseudoxerxes</i> (Forster, 1960)  <i>Polyommatus sennanensis</i> (de Lesse, 1959)  <i>Polyommatus sephidarensis</i> Karbalaye, 2008  <i>Polyommatus shahkuhensis</i> Lukhtanov et al., 2008  <i>Polyommatus shahrami</i> Skala, 2001  <i>Polyommatus shirkuhensis</i> ten Hagen &amp; Eckweiler, 2001  <i>Polyommatus sorkhensis</i> Eckweiler, 2003  <i>Polyommatus stemppferi</i> (Brandt, 1938)  <i>Polyommatus tenhageni</i> Schurian &amp; Eckweiler, 1999  <i>Polyommatus urmiaensis</i> Schurian &amp; ten Hagen, 2003  <i>Polyommatus xerxes</i> (Staudinger, 1899)  <i>Polyommatus zarathustra</i> Eckweiler, 1997  <i>Polyommatus zardensis</i> Schurian &amp; ten Hagen 2001  <i>Satyrium persepolis</i> Eckweiler &amp; ten Hagen, 2003  <i>Satyrium sassanides</i> (Kollar, [1849])</p>
<p><b>SCYTHRIDIDAE (7)</b>  <i>Scythris alborzensis</i> Passerin d'Entrèves &amp; Roggero, 2011  <i>Scythris ampullella</i> Passerin d'Entrèves &amp; Roggero, 2012  <i>Scythris bifasciella</i> Passerin d'Entrèves &amp; Roggero, 2011  <i>Scythris elburzi</i> Passerin d'Entrèves &amp; Roggero, 2008  <i>Scythris ethmiella</i> Amsel, 1974  <i>Scythris farsi</i> Passerin d'Entrèves, 2009  <i>Scythris tridentata</i> Passerin d'Entrèves &amp; Roggero, 2012</p>	
<p><b>STATHMOPODIDAE (1)</b>  <i>Tortilia pallidella</i> Kasy, 1973</p>	
<p><b>ALUCITIDAE (2)</b>  <i>Alucita iranensis</i> Scholz &amp; Jäckh, 1994  <i>Tephroniopsis geometridalis</i> Amsel, 1961</p>	
<p><b>PTEROPHORIDAE (5)</b>  <i>Agdistis iranica</i> Alipanah &amp; Ustjuzhanin, 2007  <i>Calyciphora golestanica</i> Alipanah &amp; Ustjuzhanin, 2005  <i>Marasmarcha iranica</i> Arenberger, 1999  <i>Merrifieldia farsi</i> (Arenberger, 1981)  <i>Tabulaephorus djebeli</i> (Arenberger, 1981)</p>	
<p><b>CARPOSINIDAE (2)</b>  <i>Carposina ekbatana</i> Amsel, 1978  <i>Carposina roesleri</i> Amsel, 1977</p>	
<p><b>PAPILIONIDAE (2)</b>  <i>Allancastris louristana</i> (Le Cerf, 1908)  <i>Archon bostanchii</i> de Freina &amp; Naderi, 2003</p>	
<p><b>PIERIDAE (6)</b>  <i>Anthocharis carolinae</i> Back, 2005  <i>Colias sagartia</i> Lederer, 1869  <i>Euchloe lessei</i> Bernardi, 1957  <i>Euchloe persica</i> Verity, 1908  <i>Euchloe ziyani</i> Leestmans &amp; Back, 2001  <i>Pieris persis</i> Verity, 1922</p>	
<p><b>LYCAENIDAE (61)</b>  <i>Agriades aegagrus</i> (Christoph, 1874)  <i>Callophrys farsica</i> ten Hagen, 2009  <i>Callophrys mystaphioides</i> Krupitsky &amp; Kolesnichenko, 2013  <i>Callophrys naderii</i> ten Hagen, 2008  <i>Glaucopsyche hazerii</i> Karbalaye &amp; Harandi, 2007  <i>Lycaena lamponides</i> (Staudinger, 1901)  <i>Neolysandra corona</i> (Verity, 1936)  <i>Neolysandra fereiduna</i> Skala, 2002  <i>Plebejus afshar</i> Eckweiler, 1998  <i>Plebejus alizadehorum</i> Bálint &amp; Karbalaye, 2020  <i>Plebejus ardashir</i> (Eckweiler, 1998)  <i>Plebejus callaghani</i> (Carbonell &amp; Naderi, 2007)  <i>Plebejus montetaftanus</i> (ten Hagen &amp; Schurian, 2001)  <i>Plebejus vaneki</i> (Weidenhoffer &amp; Klir 2000)  <i>Polyommatus achaemenes</i> Skala, 2002  <i>Polyommatus aereus</i> Eckweiler, 1998  <i>Polyommatus ahmadi</i> (Carbonell, 2001)  <i>Polyommatus ardschira</i> (Brandt, 1938)  <i>Polyommatus baltazardi</i> (de Lesse, 1963)  <i>Polyommatus barmifiruze</i> (Carbonell, 2000)  <i>Polyommatus birunii</i> Eckweiler &amp; ten Hagen, 1998  <i>Polyommatus caerulea</i> (Staudinger, 1871)  <i>Polyommatus darius</i> Eckweiler &amp; ten Hagen, 1998  <i>Polyommatus demavendi</i> (Pfeiffer, 1938)  <i>Polyommatus dizinensis</i> (Schurian, 1982)  <i>Polyommatus eckweileri</i> ten Hagen, 1998  <i>Polyommatus esfahensis</i> (Carbonell, 2000)  <i>Polyommatus faramarzi</i> (Skala, 2001)</p>	
	<p><b>NYMPHALIDAE (13)</b>  <i>Chazara mortezai</i> Carbonell &amp; Leestmans, 2000  <i>Hyponephele shirazica</i> Carbonell, 1997  <i>Melanargia evartiana</i> Wagens, 1976  <i>Melitaea abbas</i> Gross &amp; Ebert, 1975  <i>Melitaea casta</i> Kollar, [1849]  <i>Melitaea consulis</i> Wiltshire, 1941  <i>Melitaea eberti</i> Koçak, 1980  <i>Melitaea jitka</i> D. Weiss &amp; Major, 2000  <i>Melitaea sarvistana</i> Wiltshire, 1941  <i>Melitaea saxatilis</i> Christoph, 1874  <i>Melitaea semiconsulis</i> Coutsis, van Oorschot &amp; Naderi, 2014  <i>Melitaea shahvarica</i> Kolesnichenko &amp; Kotlobay, 2022  <i>Satyrium astyages</i> Skala, 2003</p>
	<p><b>PYRALIDAE (130)</b>  <i>Acrobasis bouchirella</i> (Amsel, 1951)  <i>Acrobasis mirabiella</i> (Toll, 1948)  <i>Acrobasis persicella</i> (Amsel, 1951)  <i>Acrobasis zamartha</i> (Roesler, 1987)  <i>Acteniopsis gambroensis</i> Alipanah &amp; Asselbergs, 2018  <i>Aglossa simplicialis</i> Christoph, 1893  <i>Amechedia herlina</i> Roesler, 1989  <i>Ancylosis canella</i> Roesler, 1973  <i>Ancylosis decentella</i> (Ragonot, 1887)  <i>Ancylosis externella</i> Roesler, 1973  <i>Ancylosis iranella</i> Ragonot, 1887  <i>Ancylosis kazerunella</i> Roesler, 1973  <i>Ancylosis persicella</i> (Amsel, 1961)  <i>Anemmalocera flavescetella</i> Amsel, 1961  <i>Anerastia infumella</i> Ragonot, 1887  <i>Ardekanopsis griseella</i> Amsel, 1954  <i>Arsenaria indistinctalis</i> (Amsel, 1949)  <i>Arsenaria strictalis</i> (Amsel, 1949)  <i>Arsissa firusella</i> (Amsel, 1961)  <i>Asalebria alida</i> Roesler, 1988  <i>Asalebria pallidisignata</i> (Toll, 1948)  <i>Asaluria reisseri</i> Amsel, 1958  <i>Asclerobia tchahabarella</i> (Amsel, 1950)  <i>Benderia talhouki</i> Amsel, 1949  <i>Bostra bifascialis</i> Amsel, 1950</p>

*Bostra farsalis* Amsel, 1950  
*Bostra fuscella* Amsel, 1959  
*Bostra pseudospaniella* Amsel, 1951  
*Coleocornutia ecbataniella* Amsel, 1961  
*Coleocornutia shirazella* Amsel, 1961  
*Dalakia uniformella* Amsel, 1961  
*Dentitegumia dhana* Roesler, 1989  
*Dentitegumia sirjana* Roesler, 1989  
*Dioryctria stenopterella* Amsel, 1961  
*Ecbatania alvandella* Amsel, 1961  
*Elegia kharazii* Alipanah & Slamka, 2021  
*Ematheudes persicella* (Amsel, 1961)  
*Epiparthia constituta* Roesler, 1989  
*Epischnia unicornutella* Amsel, 1961  
*Eurhodope hyrcanella* Amsel, 1954  
*Eurhodope mira* Amsel, 1954  
*Euzophera comeella* Roesler, 1973  
*Euzophera derbendicola* Roesler, 1973  
*Euzophera eburnella* Amsel, 1954  
*Euzophera flagella* (Lederer, 1869)  
*Faveria tchourouma* (Amsel, 1961)  
*Gymnancyla iranella* Alipanah & Asselbergs, 2014  
*Homoeosoma obatricostella* Ragonot, 1887  
*Hypotia brandti* (Amsel, 1949)  
*Hypotia colchicaloides* (Amsel, 1949)  
*Hypotia infascialis* (Amsel, 1949)  
*Hypotia metasialis* (Amsel, 1954)  
*Hypotia mimicalis* (Amsel, 1951)  
*Hypotia povolnyi* (Amsel, 1975)  
*Hypotia rectangula* (Amsel, 1954)  
*Keradere geminella* (Amsel, 1954)  
*Khachia albicostella* Amsel, 1961  
*Khuzistania richteri* Amsel, 1959  
*Laristania iranella* (Amsel, 1954)  
*Laristania khorassanella* (Amsel, 1950)  
*Laristania sardzella* Amsel, 1951  
*Laristania taftanella* (Amsel, 1954)  
*Lepidogma hyrcanalis* Amsel, 1961  
*Loryma bilinealis* (Amsel, 1961)  
*Makrانيا belutschistanella* Amsel, 1959  
*Makrانيا benderella* Amsel, 1961  
*Morosaphycita cornutella* (Amsel, 1951)  
*Myelois conformella* Amsel, 1951  
*Myelois demawendella* Zerny, 1939  
*Myelois paucipunctella* Zerny, 1939  
*Myrllaea pittionii* (Amsel, 1950)  
*Nephopterix macrocirtensis* Amsel, 1954  
*Nephopterix minimella* Amsel, 1954  
*Nephopterix oxybiella* Amsel, 1950  
*Neurotoma belutschistanella* (Amsel, 1961)  
*Ocrisiodes antiopa* Roesler, 1988  
*Ocrisiodes bamella* (Amsel, 1958)  
*Ocrisiodes keredjella* Amsel, 1961  
*Ocrisiodes occulta* Roesler, 1990  
*Ocrisiodes polyptychella* (Ragonot, 1887)  
*Ocrisiodes senganella* (Amsel, 1961)  
*Ocrisiodes sesamella* Roesler, 1988  
*Ormudzia cameratella* Amsel, 1954  
*Palpusopsis roseella* Amsel, 1959  
*Paraemporia monotona* Amsel, 1951  
*Parasefidia benderella* Amsel, 1950  
*Parasefidia comeella* (Amsel, 1951)  
*Pempelia caspiella* (Amsel, 1959)  
*Pempelia pallidella* (Toll, 1948)  
*Pempelia tarella* (Zerny, 1939)  
*Peoria costella* Amsel, 1954  
*Peoria ematheudella* Amsel, 1954  
*Phycita ardekanella* Amsel, 1950  
*Phycita balutchistanella* Amsel, 1950  
*Phycita comeella* Amsel, 1950  
*Phycita hyrcanella* Amsel, 1961  
*Phycita mianella* Amsel, 1950  
*Phycita persarum* (Toll, 1948)  
*Phycita pirizanella* Amsel, 1954

*Phycita taftanella* Amsel, 1950  
*Phycitodes binaloudella* (Amsel, 1961)  
*Pima keredjella* (Amsel, 1954)  
*Pima milka* (Roesler, 1990)  
*Pirizania salebrosella* Amsel, 1954  
*Pirizanodes farsella* Amsel, 1961  
*Polyochodes albidiscella* (Amsel, 1954)  
*Polyochodes farsella* (Amsel, 1951)  
*Polyochodes sefidella* (Amsel, 1954)  
*Praerhinaphe monotona* Amsel, 1954  
*Pristocercella solskyi* (Christoph, 1877)  
*Prorophora senganella* (Amsel, 1951)  
*Psorosa elbursella* Amsel, 1954  
*Psorosa mechedella* Amsel, 1954  
*Psorosodes dalakiella* Amsel, 1954  
*Salebriodes ephestiella* Amsel, 1950  
*Sareptania rectangulella* (Amsel, 1950)  
*Sclerobiodes persica* Amsel, 1951  
*Scotomera comealis* (Amsel, 1951)  
*Scotomera kirmanialis* (Amsel, 1961)  
*Scotomera laristanalis* (Amsel, 1961)  
*Scotomera luteocostalis* (Amsel, 1950)  
*Scotomera shirazalis* (Amsel, 1961)  
*Sefidia persica* Amsel, 1950  
*Selagia disclusella* Ragonot, 1887  
*Shirazia monotona* Amsel, 1954  
*Stemmatophora persica* (Amsel, 1949)  
*Stemmatophora schwingenschussi* Zerny, 1939  
*Synaphe unifascialis* (Amsel, 1961)  
*Tenellopsis microphycita* Amsel, 1961  
*Zitha mira* (Amsel, 1951)

#### CRAMBIDAE (66)

*Aeschremon belutschistanalis* Amsel, 1959  
*Aeschremon tenalis* Amsel, 1961  
*Agriphila bleszynskiella* Amsel, 1961  
*Agriphila microselasella* Bleszyński, 1959  
*Anania rudalis* (Zerny, 1939)  
*Anarpia iranella* (Zerny, 1939)  
*Aporodes pygmaealis* Amsel, 1961  
*Catoptria pfeifferi* (Osthelder, 1938)  
*Cybalomia dentilinealis* Amsel, 1961  
*Elbursia stocki* Amsel, 1950  
*Ephelis belutschistanalis* (Amsel, 1961)  
*Ephelis mirabilis* (Amsel, 1959) (Emprepes)  
*Ephelis palealis* (Amsel, 1949) (Emprepes)  
*Epimetasia abbasalis* Amsel, 1974  
*Euchromius keredjella* (Amsel, 1949)  
*Euchromius malekalis* Amsel, 1961  
*Evergestis affinis* Amsel, 1951  
*Evergestis comealis* Amsel, 1961  
*Evergestis elbursalis* Amsel, 1961  
*Evergestis laristanalis* Amsel, 1961  
*Evergestis petasalis* Zerny, 1939  
*Evergestis shirazalis* Amsel, 1954  
*Evergestis tenuiscriptalis* Rebel, 1903  
*Fredia tchahbaharia* Amsel, 1961  
*Glyphodes interruptalis* (Amsel, 1950)  
*Herpetogramma fascinalis* (Amsel, 1950)  
*Iranarpia albalis* (Amsel, 1961)  
*Iranarpia silacealis* (Amsel, 1951)  
*Iranomecyna dimorphalis* (Amsel, 1961)  
*Krombia minimella* Amsel, 1961  
*Loxostege alticolalis* (Christoph, 1877)  
*Loxostege mira* Amsel, 1951  
*Loxostege nissalis* (Amsel, 1961)  
*Loxostege shirazalis* Amsel, 1961  
*Margaretania superba* Amsel, 1961  
*Mecyna albalis* Amsel, 1961  
*Mecyna grisealis* Amsel, 1961  
*Mecyna indistinctalis* Amsel, 1961  
*Mecyna sefidalis* (Amsel, 1950)  
*Mesolia alborzella* Bassi, 2013  
*Metasia alvandalis* Amsel, 1961  
*Metasia belutschistanalis* Amsel, 1961

<p><i>Metasia comealis</i> Amsel, 1961  <i>Metasia farsalis</i> Amsel, 1961  <i>Metasia laristanalis</i> Amsel, 1961  <i>Metasia sefidalis</i> Amsel, 1961  <i>Metaxmeste elbursana</i> (Amsel, 1961)  <i>Metaxmeste staudingeri</i> (Christoph, 1872)  <i>Mukia nigroanalis</i> Amsel, 1954  <i>Palpita persicalis</i> (Amsel, 1951)  <i>Pyrausta laristanalis</i> Amsel, 1961  <i>Pyrausta nanalis</i> (Christoph, 1888)  <i>Pyrausta pionalis</i> Toll, 1948  <i>Pyrausta tafstanalis</i> Amsel, 1961  <i>Scoparia saerdabella</i> Osthelder, 1938  <i>Sitochroa urmiensis</i> Alipanah, 2020  <i>Syrianarpia elburzalis</i> Alipanah &amp; Gianti, 2017  <i>Syrianarpia kasyi</i> Leraut, 1984  <i>Tegostoma marginalis</i> Amsel, 1961  <i>Titanio ecbataniella</i> Amsel, 1958  <i>Titanio hyrcanella</i> Amsel, 1950  <i>Tulaya margelana</i> (Bethune-Baker, 1893)  <i>Tulaya staudingeri</i> (Bethune-Baker, 1893)  <i>Udea ardekanalis</i> Amsel, 1961  <i>Udea mechedalis</i> (Amsel, 1950)  <i>Udea pyraustiformis</i> (Toll, 1948)</p>	<p><i>Eupithecia elbursi</i> Vojnits, 1988  <i>Eupithecia elbursiata</i> Schütze, 1960  <i>Eupithecia forsterata</i> Schütze, 1960  <i>Eupithecia frontosa</i> Brandt, 1941  <i>Eupithecia fuscopunctata</i> Brandt, 1938  <i>Eupithecia harenosa</i> Brandt, 1938  <i>Eupithecia husseini</i> Brandt, 1938  <i>Eupithecia inexercita</i> Vojnits, 1982  <i>Eupithecia keredjana</i> Brandt, 1938  <i>Eupithecia laterata</i> Dietze, 1904  <i>Eupithecia mahomedana</i> Brandt, 1938  <i>Eupithecia montanata</i> Brandt, 1938  <i>Eupithecia persidis</i> Mironov &amp; Ratzel, 2012  <i>Eupithecia pfeifferata</i> Schütze, 1960  <i>Eupithecia problematicata</i> Schütze, 1960  <i>Eupithecia prouti</i> Bytinski-Salz &amp; Brandt, 1937  <i>Eupithecia ridiculata</i> Brandt, 1938  <i>Eupithecia sectila</i> Brandt, 1938  <i>Eupithecia siata</i> Brandt, 1938  <i>Eupithecia tarensis</i> Schwingenschuss, 1939  <i>Eupithecia truschi</i> Mironov &amp; Ratzel, 2012  <i>Eupithecia undulifera</i> Schwingenschuss, 1939  <i>Eupithecia zagrosata</i> Mironov &amp; Ratzel, 2012  <i>Gnopharmia kasrunensis</i> Wehrli, 1939  <i>Gnophosema palumba</i> Brandt, 1938  <i>Heterobapta plumellata</i> Wiltshire, 1943  <i>Heteroculpinia pasargades</i> (Brandt, 1938)  <i>Heteroculpinia prouti</i> (Brandt, 1938)  <i>Idaea persica</i> (Brandt, 1941)  <i>Idaea persidis</i> (Wiltshire, 1966)  <i>Idaea wiltshirei</i> (Brandt, 1938)  <i>Isturgia sengana</i> (Brandt, 1940)  <i>Isturgia suleiman</i> (Wehrli, 1936)  <i>Isturgia tengistanica</i> (Brandt, 1938)  <i>Isturgia wehrlii</i> (Brandt, 1940)  <i>Lithostege buxtoni</i> Prout, 1920  <i>Lithostege kiabii</i> Rajaei, 2011  <i>Lithostege samandooki</i> Rajaei, 2011  <i>Lithostege stadii</i> Lehmann, 2011  <i>Nebula longipennis</i> (Brandt, 1941)  <i>Nebula reclamata</i> (Prout, 1914)  <i>Nebula saidabadi</i> (Brandt, 1941)  <i>Nebula vartianata</i> (Wiltshire, 1970)  <i>Neognopharmia horhammeri</i> (Brandt, 1838)  <i>Nychiodes admirabila</i> Brandt, 1938  <i>Nychiodes farinosa</i> Brandt, 1938  <i>Nychiodes leviata</i> Brandt, 1938  <i>Nychiodes mirzayansi</i> Wanke, Hausmann &amp; Rajaei, 2020  <i>Nychiodes subfusca</i> Brandt, 1938  <i>Nychiodes subvirida</i> Brandt, 1938  <i>Nyssiodes rhodopolitis</i> Wehrli, 1939  <i>Ourapteryx meinekei</i> Rajaei &amp; Kollhorst, 2021  <i>Pasiphila palaeartica</i> (Brandt, 1938)  <i>Photoscotia antitypa</i> Brandt, 1941  <i>Protorhoe tangaba</i> (Wiltshire, 1952)  <i>Rhodostrophia iranica</i> Schwingenschuss, 1939  <i>Rhodostrophia nesam</i> Brandt, 1938  <i>Rhodostrophia tabestana</i> Trusch &amp; Hausmann, 2007  <i>Rhodostrophia tumulosa</i> Brandt, 1938  <i>Rhodostrophia vahabzadehi</i> Rajaei, Hausmann &amp; Trusch, 2022  <i>Sabzia graminaria</i> (Kollar, 1850)  <i>Scodionista gyulai</i> Weisert, 2009  <i>Scopula benigna</i> (Brandt, 1941)  <i>Scopula bullata</i> (Vojnits, 1986)  <i>Scopula chalcographata</i> (Brandt, 1938)  <i>Scopula gracilis</i> (Brandt, 1941)  <i>Scopula hoerhammeri</i> Brandt, 1941  <i>Scopula iranaria</i> Bytinski-Salz &amp; Brandt, 1937  <i>Scopula lactarioides</i> Brandt, 1941  <i>Scopula orbeorum</i> (Hausmann, 1996)  <i>Scopula origalis</i> (Brandt, 1941)  <i>Scotopteryx decolor</i> (Schwingenschuss, 1939)  <i>Scotopteryx fuscofasciata</i> (Brandt, 1938)  <i>Scotopteryx kurmanjiana</i> Rajaei &amp; László, 2014  <i>Scotopteryx sterilis</i> (Prout, 1938)</p>
<p><b>LASIOCAMPIDAE (8)</b>  <i>Chilena laristana</i> Daniel, 1949  <i>Chondrostege darius</i> Wiltshire, 1952  <i>Giselea pistaciae</i> (Wiltshire, 1952)  <i>Pachygastris herzi</i> (Christoph, 1888)  <i>Pachypasa hausmanni</i> Prozorov et al., 2022  <i>Phyllosdesma farahae</i> Lajonquière, 1963  <i>Poecilocampa neka</i> Zolotuhin &amp; Zahiri, 2010  <i>Sena cuneata</i> (Brandt, 1938) (Chilena)</p>	
<p><b>BRAHMAEIDAE (1)</b>  <i>Lemonia tamara</i> Antoshin &amp; Zolotuhin, 2013</p>	
<p><b>GEOMETRIDAE (114)</b>  <i>Abraxas wehrlii</i> Bytinski-Salz &amp; Brandt, 1937  <i>Alcis fredii</i> (Wehrli, 1941)  <i>Charissa ali</i> (Brandt, 1938)  <i>Charissa argillata</i> (Brandt, 1938)  <i>Charissa asymmetra</i> (Wehrli, 1936)  <i>Charissa pelengi</i> (Brandt, 1938)  <i>Charissa subtila</i> (Brandt, 1938)  <i>Charissa tafstana</i> (Brandt, 1941)  <i>Crocallis mirabica</i> Brandt, 1941  <i>Dicrognophos anophaea</i> (Wehrli, 1939)  <i>Dicrognophos culminata</i> (Brandt, 1938)  <i>Dicrognophos elahi</i> (Brandt, 1938)  <i>Dicrognophos eurytiches</i> (Brandt, 1941)  <i>Dicrognophos gorgata</i> (Brandt, 1938)  <i>Dicrognophos snelleni</i> (Christoph, 1887)  <i>Docirava palumbata</i> Mentzer, 1981  <i>Ecleora brandti</i> (Wehrli, 1941)  <i>Ennomos fraxineti</i> Wiltshire, 1947  <i>Ennomos vartianae</i> László, 2018  <i>Ennomos zandi</i> Wiltshire, 1947  <i>Entephria catochra</i> (Prout, 1939)  <i>Epitherina rhodopoleos</i> Wehrli, 1938  <i>Erannis caspica</i> Laszlo, 2003  <i>Euphyia chalusata</i> Wiltshire, 1970  <i>Euphyia farsica</i> Brandt, 1941  <i>Euphyia khorassana</i> (Brandt, 1941)  <i>Euphyia obvallata</i> (Lederer, [1871])  <i>Euphyia scopulata</i> Brandt, 1938  <i>Eupithecia aduncata</i> Brandt, 1938  <i>Eupithecia aequabila</i> Brandt, 1938  <i>Eupithecia aradjouna</i> Brandt, 1938  <i>Eupithecia asperata</i> Brandt, 1938  <i>Eupithecia basurmanca</i> Mironov &amp; Ratzel, 2012  <i>Eupithecia brandti</i> Mironov &amp; Ratzel, 2012  <i>Eupithecia cheituna</i> Brandt, 1938  <i>Eupithecia edaphopteryx</i> Vojnits, 1988</p>	

<p><i>Selidosema jowzakensis</i> Weisert, 2009  <i>Synopsia centralis</i> (Wiltshire, 1966)  <i>Thetidia recta</i> (Brandt, 1941)</p>	<p><i>Actebia opisoleuca</i> (Staudinger, 1881)  <i>Aegle porphyrinoides</i> Gaal-Haszler et al., 2012  <i>Agrotis psammocharis</i> Boursin, 1950  <i>Agrotis sardzeana</i> Brandt, 1941  <i>Allophytes renalis</i> (Wiltshire, 1941)  <i>Amphipoea maryamae</i> Zahiri &amp; Fibiger, 2006  <i>Amphipyra micra</i> Gyulai &amp; Ronkay, 2008  <i>Anagnorisma chamrani</i> Gyulai et al., 2013  <i>Anarta halophila</i> (Gyulai &amp; Ronkay, 2008)  <i>Anchoscelis elbursica</i> (Ronkay &amp; Gyulai, 2006)  <i>Anchoscelis fuscomixta</i> (Ronkay &amp; Gyulai, 2006)  <i>Apamea minoc</i> Babics &amp; Benedek, 2011  <i>Armada gelida</i> (Brandt, 1939)  <i>Armada maritima</i> Brandt, 1939  <i>Aethmia sinuata</i> Ronkay &amp; Gyulai, 2006  <i>Benshirachia paradoxa</i> Gyulai, Varga &amp; Ronkay, 2002  <i>Boursinia ferdovsi</i> (Brandt, 1941)  <i>Boursinia oxygramma</i> Brandt, 1938  <i>Brachygalea kamalii</i> Shirvani, Ronkay &amp; Talebi, 2008  <i>Brachygalea miskoi</i> Ronkay, 1996  <i>Brandtina albonigra</i> Bytinski-Salz &amp; Brandt, 1937  <i>Bryomima avajensis</i> Gyulai, 2022  <i>Bryomima rosea</i> Brandt, 1941  <i>Bryomima vartianorum</i> Gaal-Haszler et al., 2012  <i>Bryophila argentacea</i> Bytinski-Salz &amp; Brandt, 1937  <i>Bryophila eucharista</i> (Boursin, 1960)  <i>Bryophila petricolor</i> Lederer, 1870  <i>Bryophila salomonis</i> (Boursin, 1954)  <i>Bryophila thamanaea</i> Hampson, 1908  <i>Bryophila thamanaea</i> Hampson, 1908  <i>Calamia metamorpha</i> (Boursin, 1960)  <i>Caradrina altissima</i> Hacker, 2004  <i>Caradrina boursini</i> (F. Wagner, 1936)  <i>Caradrina inopinata</i> Hacker, 2004  <i>Caradrina isfahana</i> Hacker, 2004  <i>Caradrina khorassana</i> (Boursin, 1942)  <i>Caradrina panurgia</i> (Boursin, 1939)  <i>Caradrina parthica</i> Hacker, 2004  <i>Caradrina phanosciera</i> (Boursin, 1939)  <i>Caradrina poecila</i> (Boursin, 1939)  <i>Caradrina pseudalbina</i> (Boursin, 1942)  <i>Caradrina pulvis</i> (Boursin, 1939)  <i>Caradrina sarhadica</i> (Boursin, 1942)  <i>Caradrina stenoptera</i> (Boursin, 1939)  <i>Caradrina zagrobia</i> Hacker, 2004  <i>Caradrina zandi</i> Wiltshire, 1952  <i>Cardepia halophila</i> Hacker, 1998  <i>Cardepia oleagina</i> Hacker, 1998  <i>Chersotis binaloudi</i> Brandt, 1941  <i>Chersotis cryptographa</i> Varga &amp; Gyulai, 2002  <i>Chersotis hoppei</i> Varga et al., 2013  <i>Chersotis lehmanni</i> Varga et al., 2013  <i>Chersotis nitens</i> Brandt, 1941  <i>Chersotis sterilis</i> (Brandt, 1938)  <i>Chersotis zaghros</i> Gyulai &amp; Varga, 2006  <i>Chloantha elbursica</i> (Boursin, 1968)  <i>Ctenoceratoda lupa</i> (Christoph, 1893)  <i>Cucullia khorassana</i> Brandt, 1941  <i>Dasyptilia mazandarana</i> Benedek et al., 2014  <i>Deltote iranica</i> (Kotzch, 1940)  <i>Diadochia sacimima</i> Shirvani &amp; Ronkay, 2012  <i>Dichagyris gyulaiivani</i> Gyulai &amp; Varga, 2002  <i>Dichagyris haczi</i> Ronkay &amp; Gyulai, 2009  <i>Dichagyris ilseae</i> Stangelmaier &amp; Fibiger, 2003  <i>Dichagyris lupinus</i> (Brandt, 1941)  <i>Dichagyris paisa</i> (Brandt, 1938)  <i>Dichagyris taftana</i> Brandt, 1941  <i>Dichagyris zagroica</i> Hacker &amp; Ebert, 2002  <i>Discalera discalis</i> (Brandt, 1938)  <i>Drasterioides leprosa</i> (Brandt, 1938)  <i>Dryobotodes glaucus</i> Ronkay &amp; Gyulai, 2006  <i>Dysmilichia gigantea</i> Brandt, 1941  <i>Eremohadena afzalipouri</i> Shirvani, Sheykhnjad &amp; Shoghali, 2012  <i>Eremohadena toerpexa</i> Ronkay &amp; Gyulai, 2006</p>
<p><b>NOTODONTIDAE (3)</b>  <i>Cerura kautti</i> Schintlmeister, 2008  <i>Furcula turbida</i> (Brandt, 1938)  <i>Ptilophora</i> sp. n.</p>	
<p><b>EREBIDAE (55)</b>  <i>Amata aserbeidjana</i> (de Freina, 1982)  <i>Amata beluchistana</i> de Freina, 2008  <i>Amata dinara</i> de Freina 2010  <i>Amata harandii</i> de Freina &amp; Naderi, 2008  <i>Amata hyrcana</i> (Bang-Haas, 1912)  <i>Amata kamarana</i> de Freina, 2010  <i>Amata kordestana</i> de Freina &amp; ten Hagen, 2003  <i>Amata naderii</i> de Freina, 2010  <i>Amata persica</i> (Kollar, 1849)  <i>Anydrophila banghaasi</i> Brandt, 1939  <i>Anydrophila distincta</i> Brandt, 1939  <i>Anydrophila hoerhammeri</i> Brandt, 1939  <i>Autophila cinnamonea</i> Ronkay, 1989  <i>Autophila clara</i> Wiltshire, 1952  <i>Autophila deleta</i> Benedek &amp; Ronkay, 2001  <i>Autophila eurytaenia</i> Boursin, 1963  <i>Autophila iranica</i> Ronkay, 1989  <i>Autophila plattneri</i> Boursin, 1955  <i>Autophila sinesafida</i> Wiltshire, 1952  <i>Autophila umbrifera</i> (Kollar, 1848)  <i>Catephia cana</i> (Brandt, 1939)  <i>Catocala fredii</i> Bytinski-Salz &amp; Brandt, 1937  <i>Catocala lusciniia</i> Brandt, 1938  <i>Chionoxantha margarita</i> Brandt, 1938  <i>Chionoxantha minutissima</i> Hacker &amp; Ebert, 2002  <i>Chionoxantha nobilis</i> Hacker &amp; Ebert, 2002  <i>Clytie devissima</i> Hacker &amp; Gyulai, 2013  <i>Ebertartia nordstroemi</i> (Brandt, 1947)  <i>Eublemma aftob</i> (Brandt, 1938)  <i>Eublemma agnella</i> (Brandt, 1938)  <i>Eublemma argenteanea</i> Hacker, 2019  <i>Eublemma caelestis</i> (Brandt, 1938)  <i>Eublemma fugitiva</i> (Christoph, 1877)  <i>Eublemma jocularis</i> (Christoph, 1877)  <i>Eublemma microptera</i> (Brandt, 1939)  <i>Eublemma murati</i> (Brandt, 1939)  <i>Eublemma nives</i> (Brandt, 1938)  <i>Eublemma popovi</i> (Wiltshire, 1953)  <i>Eublemma pseudepistrota</i> (Brandt, 1938)  <i>Eublemma pseudoviridis</i> (Brandt, 1939)  <i>Eublemma taftana</i> (Brandt, 1941)  <i>Hyrcalyptena schwingenschussi</i> Wagner, 1937  <i>Lygephila fereidun</i> Wiltshire, 1961  <i>Micronola irani</i> Fibiger, 2011  <i>Micronola zahirii</i> Fibiger, 2011  <i>Ocnerygia pasargadae</i> de Freina, 2012  <i>Odice keyserlingi</i> (Bienert, 1869)  <i>Parocneria audeoudi</i> Brandt, 1938  <i>Parocneria insolita</i> Brandt, 1938  <i>Pelosia uniformis</i> Rothschild, 1921  <i>Zanclostathme elbursalis</i> Draudt, 1937  <i>Zethes brandti</i> Janson, 1977  <i>Zethes narghisa</i> Brandt, 1938  <i>Zethes nemea</i> Brandt, 1938  <i>Zethes zahedanica</i> Gyulai, 2022</p>	
<p><b>NOLIDAE (1)</b>  <i>Nola venusta</i> (Brandt, 1938)</p>	
<p><b>NOCTUIDAE (162)</b>  <i>Abrostola hyrcanica</i> Hacker, 2002  <i>Acrobyla draudti</i> (Brandt, 1939)  <i>Acronicta saadi</i> Brandt, 1938  <i>Acronicta solimana</i> (Draudt, 1938)  <i>Actebia damnata</i> (Draudt, 1937)</p>	



*Euchalcia chalcophanes* Dufay, 1963  
*Euchalcia hyrcaniae* Dufay, 1963  
*Euchalcia incredibilis* Hacker & Ebert, 2002  
*Euchalcia stilpna* Dufay, 1969  
*Euloastra bryophiloides* Brandt, 1938  
*Euxoa abualisinai* Varga & Gyulai, 2002  
*Euxoa adjemi* Brandt, 1941  
*Euxoa aneucta* Brandt, 1938  
*Euxoa dsheiron* Brandt, 1938  
*Euxoa ebadhadiani* Gyulai & Varga, 2002  
*Euxoa emamrezai* Gyulai & Ronkay, 2006  
*Euxoa inclusa* Corti, 1931  
*Euxoa mustelina* (Christoph, 1877)  
*Euxoa perierga* Brandt, 1938  
*Euxoa shahabbasi* Gyulai & Varga, 2002  
*Evisa reisseri* Wiltshire, 1952  
*Frivaldszkyola elami* (Ronkay, 2001)  
*Gortyna golstanensis* Fibiger & Zahiri, 2006  
*Griposia jahannamah* (Fibiger et al., 2008)  
*Hada persa* (Alphéraky, 1897)  
*Hadena cimelia* (Brandt, 1938)  
*Hadena drangiana* Gyulai & Hacker, 2013  
*Hadena haczi* Gyulai & Hacker, 2013  
*Hadena mediana* Gyulai & Hacker, 2013  
*Hadena mesolampra* (Brandt, 1938)  
*Hadena montana* (Brandt, 1941)  
*Hadena phaeoscripta* Gyulai & Hacker, 2013  
*Hadena pyrrhotatos* Gyulai & Hacker, 2013  
*Hadena thecaphaga* (Draudt, 1937)  
*Hadena vulpecula* (Brandt, 1938)  
*Iranada venusta* (Brandt, 1939)  
*Iranada versicolor* Brandt, 1939  
*Karmanica bandarabbassa* Hacker & Ebert, 2002  
*Karmanica chosroes* (Brandt, 1938)  
*Karmanica cyros* Hacker & Ebert, 2002  
*Karmanica magnifica* Hacker & Ebert, 2002  
*Lasionhada draudti* Wagner, 1936  
*Leptologia malaqai* Esfandiari, Gyulai, Shahreyari-Nejad & Rabieh, 2022  
*Lophoterges mariannae* Fibiger, 2000  
*Luperina farsiensis* Fibiger & Zahiri, 2005  
*Margelana brunnea* Fibiger, Zahiri & Kononenko, 2007  
*Masalia philbyi* (Brandt, 1941)

*Metopoceras solituda* (Brandt, 1938)  
*Metopodicha leily* Gyulai & Ronkay, 2008  
*Metopoplus boursini* Brandt, 1938  
*Mniotype fabulosa* Benedek & Ronkay, 2002  
*Oligia suleiman* Rezbanyai-Reser, 1997  
*Oligia vandarban* Rezbanyai-Reser, 1997  
*Omphalophana serrulata* Ronkay & Gyulai, 2006  
*Opigena khorassana* Varga et al., 2015  
*Orthosia habeleri* Wiesmair, Shirvani & Ronkay, 2020  
*Oxytripia stephania* Sutton, 1964  
*Ozarba tamsina* (Brandt, 1947)  
*Paracentropus cyrus* (Brandt, 1938)  
*Perigrapha mithras* (Wiltshire, 1941)  
*Perigrapha benedeki* Ronkay et al., 2010  
*Photedes macroductus* Gyulai, 2020  
*Polymixis alborsa* Babics & Benedek, 2011  
*Polymixis dubiosa* (Brandt, 1938)  
*Polymixis fibrillata* Ronkay & Gyulai, 2006  
*Polymixis hedygramma* (Brandt, 1941)  
*Polymixis pirkadatka* Ronkay & Gyulai, 2006  
*Polymixis scrophulariae* (Wiltshire, 1952)  
*Polymixis zagrobia* (Wiltshire, 1941)  
*Pseudohadena magnitudinis* Hacker & Ebert, 2002  
*Pseudohadena zahedana* Shirvani & Ronkay, 2009  
*Pseudoligia lucifer* Ronkay & Gyulai, 2006  
*Rezahiria marmota* Ronkay, Ronkay & Gyulai, 2014  
*Rhodocatera rhodocharis* (Brandt, 1938)  
*Shargacucullia faucicola* (Wiltshire, 1943)  
*Shargacucullia kasyi* (Wiltshire, 1976)  
*Shargacucullia szeokekalmani* Ronkay, Ronkay & Gyulai, 2011  
*Standfussiana benedeki* Gyulai, 2021  
*Sympistis idioglypha* Brandt, 1938  
*Synthymia dubiosa* Brandt, 1938  
*Synthymia dubiosa* Brandt, 1938  
*Thargelia attila* Ronkay & Gyulai, 2006  
*Valeria wassalberti* Gyulai, 2019  
*Valerietta forsteri* Draudt, 1938  
*Victrix macrosema* (Boursin, 1957)  
*Victrix sassanica* Wiltshire, 1961  
*Wiltshireola disrupta* (Wiltshire, 1952)  
*Xestia kecskerago* Gyulai & Ronkay, 2006

Appendix 3. Numbers of recorded Lepidoptera species, per family, for each Iranian province.

Family	Azerbaijan-e-Gharbi	Azerbaijan-e-Sharghi	Kordestan	Kermanshah	Lorestan	Ardabil	Gilan	Mazandaran	Golestan	Semnan	Khorasan-e-Shomali	Khorasan-e-Razavi	Hamadan	Zanjan	Gazvin	Alborz	Tehran	Markazi	Qom	Yazd	Esfahan	Chaharmahal-o-Bakhtiari	Fars	Kohgiluyeh va Boyer-Ahmad	Ilam	Khuzestan	Bushehr	Hormozgan	Kerman	Sistan-o-Baluchestan	Khorasan-e Jonubi		
01. MICROPTERIGIDAE	--	--	--	--	--	--	--	1	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
02. HEPIALIDAE	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
03. NEPTICULIDAE	1	4	1	--	--	--	4	7	10	2	1	2	--	--	--	1	9	1	--	--	--	--	--	2	--	--	--	--	1	2	1	--	
04. HELIOZELIDAE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	
05. ADELIDAE	--	--	--	--	--	--	--	--	4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
06. TISCHERIIDAE	--	2	--	--	--	--	1	2	1	--	--	--	--	--	--	4	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	
07. MEESSIIDAE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	
08. PSYCHIDAE	1	2	4	3	--	--	--	4	--	3	1	1	--	--	--	1	3	1	--	--	--	1	--	3	1	--	--	--	1	1	2	--	
09. ERIOCOTTIDAE	--	--	--	--	--	--	--	--	--	1	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
10. TINEIDAE	12	5	11	5	6	1	6	19	20	3	4	7	2	5	2	12	9	2	2	3	5	8	24	5	1	8	7	13	13	10	1		
11. BUCCULATRICEIDAE	--	3	--	--	--	--	3	3	4	--	--	1	--	1	--	3	--	--	1	--	--	--	1	--	--	--	--	--	5	2	--	1	
12. GRACILLARIIDAE	2	25	5	2	3	5	16	30	21	2	3	4	2	2	2	7	19	5	3	2	3	4	7	2	2	2	2	4	4	3	2		
13. BEDELLIIDAE	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	
14. HELIODINIDAE	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
15. LYONETIIDAE	2	2	--	--	--	1	--	--	1	--	--	2	--	--	--	2	1	1	--	--	--	2	--	1	--	--	--	--	--	--	--	--	
16. ARGYRESTHIDAE	--	--	--	--	--	--	--	--	3	1	1	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
17. YPONOMEUTIDAE	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	2	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
18. YPSOLOPHIDAE	--	--	--	--	--	--	--	1	1	6	5	1	1	--	--	4	1	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	
19. PLUTELLIDAE	--	--	1	--	--	--	1	1	1	--	--	1	--	--	--	2	2	--	--	--	--	--	1	--	--	1	--	3	1	1	--		
20. GLYPHIPTERIGIDAE	--	--	--	--	--	--	--	1	1	--	--	1	--	--	--	--	--	--	--	--	--	--	2	--	--	--	--	1	--	1	--	--	
21. USTYURTHIDAE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--
22. DOUGLASHIIDAE	--	--	1	--	--	--	--	--	1	--	--	2	--	--	--	2	1	--	--	--	--	--	1	--	--	--	--	--	1	1	--	--	
23. CHOREUTIDAE	1	3	--	--	--	--	1	3	6	--	1	--	--	1	1	--	3	1	1	--	--	--	1	--	--	1	--	--	--	--	--	--	
24. GALACTICIDAE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--
25. TORTRICIDAE	25	29	19	11	7	18	39	70	70	20	12	30	15	13	8	31	52	9	2	7	16	7	46	11	1	9	2	3	12	9	2		
26. COSSIDAE	17	17	16	10	14	12	7	12	16	11	23	24	9	8	2	15	18	11	6	1	21	8	26	11	2	10	2	12	12	17	2		
27. SESIIDAE	9	7	7	--	18	2	5	19	10	3	4	3	10	11	--	9	16	1	--	5	22	10	23	15	--	--	--	--	10	1	2		
28. BRACHODIDAE	--	1	1	--	1	1	--	--	5	3	3	1	1	1	2	1	2	1	--	--	--	4	2	5	1	--	--	--	3	1	--		
29. ZYGAENIDAE	7	24	9	5	18	13	9	18	14	12	3	11	15	10	10	12	20	4	1	8	22	14	22	7	2	2	1	1	15	4	1		
30. LIMACODIDAE	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	
31. EPIPYROPIDAE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	
32. LECITHOCERIDAE	--	--	--	--	--	--	--	--	1	1	--	--	1	--	--	--	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	
33. AUTOSTICHIDAE	4	--	9	1	4	--	--	6	1	3	--	5	1	--	--	7	12	--	--	1	2	--	31	1	--	2	3	6	2	7	--		
34. OECOPHORIDAE	--	--	--	--	--	--	1	3	6	2	4	--	--	--	--	--	5	--	--	--	1	--	1	--	--	2	--	1	--	--	--	--	
35. LYPUSIDAE	--	--	--	--	--	--	--	--	1	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
36. DEPRESSARIIDAE	7	3	4	6	1	2	4	9	17	--	12	12	--	1	1	12	15	--	1	1	5	1	32	3	--	5	3	5	3	5	1		
37. COSMOPTERIGIDAE	4	--	4	--	1	--	1	3	5	--	2	2	1	--	--	4	4	--	--	--	1	2	8	--	--	5	--	18	1	3	--		
38. GELECHIIDAE	20	10	30	13	11	4	5	27	45	27	42	28	11	11	4	40	38	6	21	3	18	5	56	3	2	19	4	33	21	41	3		
39. PTEROLONCHIDAE	--	--	--	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	1	1	1	1	1	--	--	--	--	--	
40. ELACHISTIDAE	--	--	1	--	--	--	--	--	1	3	--	--	--	--	--	4	4	--	--	--	--	--	2	--	1	--	--	1	--	--	--	--	
41. COLEOPHORIDAE	22	3	9	5	3	--	1	27	17	12	8	14	2	--	1	10	48	--	14	1	6	--	45	--	4	--	50	16	8	--	--		
42. BATRACHEDRIDAE	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1	1	--	--	1	1	--	1	--	--	1	1	--	1	1	--	
43. SCYTHRIDAE	2	--	--	--	--	1	--	--	6	6	4	1	--	--	--	8	1	--	1	--	1	--	6	--	--	--	--	10	5	8	--	--	
44. STATHMOPODIDAE	--	--	--	--	--	--	--	1	--	--	--	1	--	--	--	1	2	--	--	--	--	--	1	--	--	--	--	2	--	--	--	--	
45. BLASTOBASIDAE	--	--	--	--	--	--	--	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
46. MOMPHTIDAE	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
47. ALUCITIDAE	1	--	1	2	1	1	--	3	2	1	3	1	--	--	--	2	4	--	--	--	1	2	2	2	--	--	--	2	--	--	--	--	
48. PTEROPHORIDAE	20	14	18	7	10	12	8	23	29	14	20	10	10	12	6	31	--	3	3	4	18	11	27	9	--	9	6	20	16	9	--		
49. CARPOSINIDAE	--	--	--	--	--	--	--	--	--	--	1	1	--	--	--	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	
50. EPERMENIIDAE	--	--	--	--	--	--	--	2	--	--	1	--	--	--	--	2	4	--	--	--	--	--	3	--	--	--	--	1	1	1	--	--	
51. HESPERIIDAE	28	31	22	16	16	17	13	23	20	21	23	18	18	19	8	26	27	13	4	3	18	13	28	16	5	13	8	7	10	5	3		
52. PAPILIONIDAE	7	5	7	6	7	3	3	5	5	5	5	4	7	5	4	5	5	7	1	4	7	4	7	5	2	4	4	4	4	4	2		
53. PIERIDAE	25	25	18	18	25	20	25	29	26	27	24	18	13	21	25	27	28	12	7	13	24	19	28	16	14	18	19	21	23	25	11		
54. LYCAENIDAE	98	93	68	45	59	72	75	82	64	71	50	47	43	60	58	70	83	40	20	26	65	43	66	46	14	25	16	21	39	27	23		
55. NYMPHALIDAE	86	88	56	52	54	75	67	68	64	62	59	50	41	53	53	66	72	32	9	21	52	40	43	38	22	28	15	14	23	25	18		
56. PYRALIDAE	14	8	20	9	11	7	18	60	35	64	11	60	40	7	6	122	115	7	13	13	7	4	221	5	2	45	21	57	37	141	3		
57. CRAMBIDAE	41	33	15	24	13	29	58	87	88	56	35	64	35	16	11	99	85	7	13	12	18	13	131	13	1	48	29	54	33	91	3		
58. CIMELIIDAE	1	1	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
59. DREPANIDAE	2	3	1	2	--	1	6	6	5	--	2	--	2	--	1	2	4	1	--	--	3	1	2	1	--	--	1	--	--	--	--	--	
60. LASIOCAMPIDAE	6	11	9	7	8	6	9	13	13	12	8	6	4	3	9	10	10	4	3	--	8	3	20	8	--	4	9	8	8	6	--		
61. BRAHMAEIDAE	--	1	--	1	1	--	1	2	1	--	2	1	--	2	1	--	3	--	--	--</													