

## **Early Land Plants Today: Index of Liverworts & Hornworts 2006-2008**

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**Abstract** – A widely accessible working list of known plant species is considered the number one target of the Global Strategy for Plant Conservation. An index of published names of liverworts and hornworts between 2006 and 2008 is provided as part of a continued effort in working toward producing a preliminary world checklist of these plants. Included in the list are those names overlooked by earlier indices. The list includes over 20 higher taxa, 246 species or infraspecific valid names, and three fossils.

**Liverworts / hornworts / index / nomenclature**

### **INTRODUCTION**

Recently, there has been a major internationally coordinated effort to synthesize the vast amount of nomenclatural, taxonomical and global distributional data for liverworts (Marchantiophyta) and hornworts (Anthocerotophyta) (e.g., Söderström *et al.*, 2008; von Konrat *et al.*, 2008, 2009). These endeavours are critical in providing the foundation to develop a working checklist of liverworts and hornworts worldwide. This is significant because the Convention on Biological Diversity (CBD) adopted the Global Strategy for Plant Conservation (GSPC) which set the target date of 2010 to complete a widely accessible working list of all known plant species (Lughadha, 2004). The critical need for this target to be achieved and the implications for conservation, taxonomy, and botanical science were recently outlined by Paton *et al.* (2008).

This index follows on from the resourceful indices of recent years: Index of Hepatics (Crosby & Engel, 2006) and the series Index of Bryophytes 2001-2004 (Crosby & Magill, 2005) and Index of Bryophytes 2005 (Crosby & Magill, 2006).

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In this index we attempt to list citations for names published for liverworts and hornworts during the period January 1, 2006 through December 31, 2008. Names that were overlooked by earlier indices are also included. A bibliography contains complete citations for the places of publication of the names. Although basionyms for new combinations are listed as well as the original publication, these are not referenced in the bibliography. The format generally follows that of previous indices. The type country of a new species and infraspecies is provided. For fossils we state the geological period. The type *Taxon* is also provided for new names of higher taxa. All names, including basionyms and replaced names are arranged alphabetically. As a matter of reference autonyms are included only for the period in which the present index covers, providing a useful resource indicating publication date at which the autonym was first created. Although names that we judge to be invalidly published are included in the list, we have attempted not to include data that could be interpreted as validating them. Therefore, the invalidly published names are not accepted by the authors of this index, and they are not therefore published under the Vienna Code of Botanical Nomenclature (McNeill *et al.* 2006). As in previous indices, no disposition is provided to an accepted name or to the taxonomy.

The valid number of published names includes over 20 higher taxa, 246 species or infraspecific names, and three fossils. Noteworthy is the influence of molecular investigations with higher classification and taxonomy. In the past several years, the application of molecular phylogenetics to the unraveling of liverwort phylogeny has generated new insights into the evolutionary history of the group and revolutionized liverwort classification (Crandall-Stotler *et al.*, 2009b). This is evident with the use of molecular markers for all but one of the 24 higher taxa (above the rank of genus) described. Recently, Crandall-Stotler *et al.* (2009a, 2009b) provided a treatise summarizing historical and contemporary liverwort classification. In contrast, molecular data in conjunction with morphological characters was used for less than 15 taxa at the rank of species.

## METHODS

Authorities and citation abbreviations follow the on-line version of Authors of Plant Names at the Royal Botanic Gardens, Kew Website ([www.ipni.org](http://www.ipni.org)), which is an updated version of Brummitt & Powell (1992). For nomenclatural elements we follow the Vienna Code of Botanical Nomenclature (McNeill *et al.*, 2006).

The following outlines the format for names published during the period: Name, Author(s), Citation [journal/publication, volume, page number], Year, Type country [subdivision notes in some cases].

The full reference for a name is provided in the index. At the end of each name, referral to the full citation for the journal/book article in which the name appeared is in the form: SEE Engel (2007). Entries may have an annotation in the form of a NOTE near the end. These annotations typically identify invalid or illegitimate names and may provide a brief description of the problem with the name.

The name of a *new Taxon* published during the period takes the form:

***Allisoniella nigra*** var. ***acutiloba*** J.J.Engel, *Novon* 17: 313. 2007. New Zealand [Stewart Island]. SEE Engel (2007).

Its article from the Bibliography:

ENGEL J. J., 2007. — Studies of New Zealand Hepaticae. 20-38. A miscellanea of new taxa and combinations. *Novon* 17: 310-314.

A *new combination* published during the period takes the form:

***Austrolejeunea conchophylla*** (Grolle) Pócs, *J. Hattori Bot. Lab.* 99: 186. 2006. (Basionym: *Nephelolejeunea conchophylla* Grolle, *J. Hattori Bot. Lab.* 48: 164. 1980). SEE Pócs (2006).

Its article from the Bibliography:

PÓCS T., 2006. — Contributions to the bryoflora of Australia, II. On the Australasian “Tuyamaelloideae” (Lejeuneaceae), with the description of *Austrolejeunea occidentalis*. *Journal of the Hattori botanical laboratory* 99: 185-196.

Basionyms that have been used to establish new combinations during the index period are also listed. For example,

***Nephelolejeunea conchophylla*** Grolle, *J. Hattori Bot. Lab.* 48: 164. 1980. OTHER USE: *Austrolejeunea conchophylla* (Grolle) Pócs, 2006.

An asterisk, \*, preceding an entry indicates that the name has been interpreted by us as contrary to McNeill *et al.* 2006 and applies to both invalid and illegitimate names. An annotation in the form of a NOTE indicates the problem. For example,

\****Lopholejeunea nongstoinii*** Ajit P.Singh *et* V.Nath, *Phytotaxonomy* 6: 32. 2006 [2007]. NOTE: nom. inval., holotype not designated. India [Meghalaya]. SEE Singh & Nath (2007c).

A dagger, †, preceding an entry indicates a name for a fossil. For example,

†***Schizolepidella birkenmajeri*** Ociepa, *Polish Polar Research* 28: 34. 2007. Jurassic. SEE Ociepa (2007).

In cases where new infraspecific taxa have been developed, we precede each entry with the species, authority, and year to provide historical context. For example,

***Allisoniella nigra*** (Rodway) R.M.Schust., 1971 [1972].

***Allisoniella nigra*** var. ***acutiloba*** J.J.Engel, *Novon* 17: 313. 2007. New Zealand [Stewart Island]. SEE Engel (2007a).

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***Adelanthus crossii*** Spruce, *Trans. & Proc. Bot. Soc. Edinburgh* 15: 404. 1885. OTHER USE: *Pseudomarsupidium crossii* (Spruce) J.J.Engel, 2007.

***Adelanthus decipiens*** (Hook.) Mitt., 1863 [1864].

***Adelanthus decipiens*** subsp. ***aureocinctus*** R.M.Schust., *Phytologia* 39: 250. 1978. OTHER USE: *Pseudomarsupidium aureocinctum* (R.M.Schust.) J.J.Engel, 2007.

***Allisoniella nigra*** (Rodway) R.M.Schust., 1971 [1972].

***Allisoniella nigra*** var. ***acutiloba*** J.J.Engel, *Novon* 17: 313. 2007. New Zealand [Stewart Island]. SEE Engel (2007a).

- Allisoniella nigra* var. *nigra*, *Novon* 17: 313. 2007. SEE Engel (2007a).
- Amblyolejeunea fulfordiae* Ast, *Rev. Bryol. Lichénol.* 17: 25. 1948. OTHER USE: *Lejeunea fulfordiae* (Ast) R.L.Zhu, 2008.
- Amphicephalozia africana* Váňa et Wigginton, *J. Bryol.* 30: 55. 2008. Rwanda. SEE Váňa & Wigginton (2008).
- Andrewsianthus hodgsoniae* (R.M.Schust.) R.M.Schust. ex J.J.Engel, *Novon* 17: 311. 2007. BASIONYM: *Cephalolobus hodgsoniae* R.M.Schust., *Rev. Bryol. Lichénol.* 34: 251. 1966. SEE Engel (2007a).
- Andrewsianthus scabrellus* (C.Massal.) R.M.Schust. ex J.J.Engel, *Novon* 17: 311. 2007. BASIONYM: *Cephalozia scabrella* C.Massal., *Nuovo Giorn. Bot. Ital.* 17: 233. 1885. SEE Engel (2007a).
- Andrewsianthus sphenoloboides* (R.M.Schust.) R.M.Schust. ex J.J.Engel, *Novon* 17: 311. 2007. BASIONYM: *Cephalolobus sphenoloboides* R.M.Schust., *Rev. Bryol. Lichénol.* 34: 251. 1966. SEE Engel (2007a).
- Aneura coronopus* De Not. ex Steph., *Hedwigia* 32: 19. 1893. OTHER USE: *Lobatirricardia coronopus* (De Not. ex Steph.) Furuki, 2006.
- \**Aneura merrillana* Steph. ex Furuki, *J. Hattori Bot. Lab.* 100: 94. 2006. NOTE: nom. inval. Art. 34.1(c), pro syn. (cf. *Riccardia nagasakiensis* (Steph.) S.Hatt.). SEE Furuki (2006b).
- Aneura polyclada* Mitt. ex Thurn, *Timehri* 5: 222. 1886. OTHER USE: *Riccardia polyclada* (Mitt. ex Thurn) Hässel, *Bryologist* 109: 34. 2006.
- Anthoceros coriaceus* Steph., *Spec. Hepat.* (Stephani) 5: 991. 1916. OTHER USE: *Phaeomegaceros coriaceus* (Steph.) R.J.Duff, J.C.Villarreal, Cargill et Renzaglia, 2007.
- Anthoceros endiviaefolius* Mont., *Voy. Pôle Sud* 1: 211. 1845. OTHER USE: *Nothoceros endiviaefolius* (Mont.) J.Haseg. ex J.C.Villarreal, Hässel et N.Salazar, 2007.
- Anthoceros evanidus* Steph., *Spec. Hepat.* (Stephani) 5: 990. 1916. OTHER USE: *Phaeoceros evanidus* (Steph.) Cargill et Fuhrer, 2008.
- Anthoceros giganteus* Lehm. et Lindenb., *Nov. Stirp. Pug.* 4: 25. 1832. OTHER USE: *Nothoceros giganteus* (Lehm. et Lindenb.) J.Haseg. ex J.C.Villarreal, Hässel et N.Salazar, 2007.
- Anthoceros hallii* Austin, *Bull. Torrey Bot. Club* 6: 26. 1875. OTHER USE: *Paraphymatoceros hallii* (Austin) Hässel, 2006.
- Anthoceros inflatus* Steph., *Spec. Hepat.* (Stephani) 5: 990. 1916. OTHER USE: *Phaeoceros inflatus* (Steph.) Cargill et Fuhrer, 2008.
- Anthoceros minutus* Mitt., *J. Proc. Linn. Soc., Bot.* 16: 195. 1877 [1878]. OTHER USE: *Paraphymatoceros minutus* (Mitt.) Hässel, 2006.
- Anthoceros phymatodes* M.Howe, *Bull. Torrey Bot. Club* 25: 12. 1898. OTHER USE: *Phymatoceros phymatodes* (M.Howe) R.J.Duff, J.C.Villarreal, Cargill et Renzaglia, 2007.
- Aphanolejeunea exigua* A. Evans, 1911.
- Aphanolejeunea exigua* var. *africana* Pócs, *Cryptog. Bryol. Lichénol.* 5: 247. 1984. OTHER USE: *Cololejeunea microscopica* var. *africana* (Pócs) Pócs et Bern.-Lück., 2008.
- Aphanolejeunea gracilis* Ast, *Rev. Bryol. Lichénol.* 16: 21. 1947. OTHER USE: *Cololejeunea gracilis* (Ast) Pócs, 2008.
- Aphanolejeunea sintenisii* Steph., *Spec. Hepat.* (Stephani) 5: 861. 1916. OTHER USE: *Cololejeunea sintenisii* (Steph.) Pócs, 2008.
- Aphanolejeunea subsphaeroidea* R.M.Schust., *Phytologia* 39: 431. 1978. OTHER USE: *Cololejeunea subsphaeroidea* (R.M.Schust.) Pócs, 2008.

- Arachniopsis indica*** S.C.Srivast. et P.K.Verma, *Natl. Acad. Sci. Lett.* 27: 270. 2004. OTHER USE: *Telaranea indica* (S.C.Srivast. et P.K.Verma) A.E.D.Daniels et P.Daniel, 2007. SEE Srivastava & Verma (2006).
- Archilejeunea helenae*** Pócs et Gyarmati, *Cryptog. Bryol.* 27: 104. 2006. Madagascar. SEE Pócs & Sass-Gyarmati (2006).
- Austrolejeunea conchophylla*** (Grolle) Pócs, *J. Hattori Bot. Lab.* 99: 186. 2006. BASIONYM: *Nephelolejeunea conchophylla* Grolle, *J. Hattori Bot. Lab.* 48: 164. 1980. SEE Pócs (2006a).
- Austrolejeunea hamata*** (Grolle) Pócs, *J. Hattori Bot. Lab.* 99: 186. 2006. BASIONYM: *Nephelolejeunea hamata* Grolle, *J. Hattori Bot. Lab.* 48: 167. 1980. SEE Pócs (2006a).
- Austrolejeunea occidentalis*** Pócs, *J. Hattori Bot. Lab.* 99: 187. 2006. Australia [Western Australia]. SEE Pócs (2006a).
- Austrolejeunea papillosa*** (Glenny) Pócs, *J. Hattori Bot. Lab.* 99: 186. 2006. BASIONYM: *Nephelolejeunea papillosa* Glenny, *New Zealand J. Bot.* 34: 195. 1996. SEE Pócs (2006a).
- Austrolejeunea talinayi*** (S.W.Arnell) Pócs, *J. Hattori Bot. Lab.* 99: 187. 2006. BASIONYM: *Harpalejeunea talinayi* S.W.Arnell, *Svensk Bot. Tidskr.* 50: 309. 1956. SEE Pócs (2006a).
- Bazzania*** sect. ***Exemptae*** J.J.Engel, *J. Hattori Bot. Lab.* 99: 200. 2006. TYPE: *Bazzania exempta* J.J.Engel, *J. Hattori Bot. Lab.* 99: 197. 2006. SEE Engel (2006a).
- Bazzania*** sect. ***Glaucobazzania*** J.J.Engel, *Novon* 17: 310. 2007. TYPE: *Bazzania tayloriana* (Mitt.) Kuntze, *Revis. Gen. Pl.* 2: 832. 1891. SEE Engel (2007a).
- Bazzania*** sect. ***Protobazzania*** J.J.Engel, *J. Hattori Bot. Lab.* 99: 203. 2006. TYPE: *Bazzania involuta* (Mont.) Trevis, *Mem. Reale Ist. Lombardo Sci., Ser. 3, Cl. Sci. Mat.* 4: 414. 1877. SEE Engel (2006a).
- Bazzania citharodes*** Meagher, *Nova Hedwigia* 86: 481. 2008. Australia [Queensland]. SEE Meagher (2008).
- Bazzania corbieri*** (Steph.) Meagher, *Nova Hedwigia* 86: 483. 2008. BASIONYM: *Mastigobryum corbieri* Steph., *J. & Proc. Roy. Soc. New South Wales* 48: 122. 1914. SEE Meagher (2008).
- Bazzania engelii*** Glenny, *Fieldiana, Bot.*, n.s. 47: 176. 2008. New Zealand [South Island]. SEE Glenny & Bartlett (2008).
- Bazzania exempta*** J.J.Engel, *J. Hattori Bot. Lab.* 99: 197. 2006. New Zealand [North Island]. SEE Engel (2006a).
- Bazzania okaritana*** Meagher et Glenny, *J. Bryol.* 29: 60. 2007. New Zealand [South Island]. SEE Meagher & Glenny (2007).
- Bazzania rimosa*** Meagher, *Nova Hedwigia* 86: 489. 2008. Papua New Guinea. SEE Meagher (2008).
- Bazzania scalaris*** Meagher, *Telopea* 11(3): 247. 2006. Papua New Guinea. SEE Meagher (2006).
- Bazzania zonulata*** Meagher, *Nova Hedwigia* 86: 491. 2008. Australia [Queensland]. SEE Meagher (2008).
- Blasiidae** He-Nygrén, Juslén, Ahonen, Glenny et Piippo, *Cladistics* 22: 27. 2006. BASED ON: Blasiales (R.M.Schust.) Stotler et Crand.-Stotl. TYPE: *Blasia* L., *Sp. Pl.*: 1138. 1753. SEE He-Nygrén et al. (2006).
- Blepharostomataceae** W.Frey et M.Stech, *Nova Hedwigia* 87: 263. 2008. BASED ON: Pseudolepicoleaceae subfam. Blepharostomoideae Grolle, *J. Bryol.* 7: 205. 1972. TYPE: *Blepharostoma* (Dumort.) Dumort., *Recueil Observ. Jungerm.* 18. 1835. SEE Frey & Stech (2008).

- Calyculariaceae** He-Nygrén, Juslén, Ahonen, Glenný et Piippo, *Cladistics* 22: 27. 2006. TYPE: *Calycularia* Mitt., *J. Proc. Linn. Soc., Bot.* 5: 122. 1861. SEE He-Nygrén *et al.* (2006).
- Calyculariineae** He-Nygrén, Juslén, Ahonen, Glenný et Piippo, *Cladistics* 22: 27. 2006. BASED ON: Calyculariaceae He-Nygrén, Juslén, Ahonen, Glenný et Piippo, *Cladistics* 22: 27. 2006. TYPE: *Calycularia* Mitt., *J. Proc. Linn. Soc., Bot.* 5: 122. 1861. SEE He-Nygrén *et al.* (2006).
- Calypogeia khasiana** Ajit P. Singh et V. Nath, *Taiwania* 52: 320. 2007. TYPE: India [Meghalaya]. SEE Singh & Nath (2007a).
- Castanoclobos** J.J. Engel et Glenný, *Novon* 17: 424. 2007. TYPE: *Leiomitra julacea* Hatcher ex J.J. Engel, *Novon* 9: 26, 1999. SEE Engel & Glenný (2007).
- Castanoclobos julaceus** (Hatcher ex J.J. Engel) J.J. Engel et Glenný, *Novon* 17: 426. 2007. BASIONYM: *Leiomitra julacea* Hatcher ex J.J. Engel, *Novon* 9: 26. 1999. SEE Engel & Glenný (2007).
- Cephalojonesia incuba** Grolle et Vanden Berghen, 1970.
- Cephalojonesia incuba** subsp. *incuba*, *J. Hattori Bot. Lab.* 100: 37. 2006. SEE Burghardt *et al.* (2006).
- Cephalojonesia incuba** subsp. *mexicana* Burghardt, Gradst. et Váňa, *J. Hattori Bot. Lab.* 100: 37. 2006. Mexico [Michoacán]. SEE Burghardt *et al.* (2006).
- Cephalolobus hodgsoniae** R.M. Schust., *Rev. Bryol. Lichénol.* 34: 251. 1966. OTHER USE: *Andrewsianthus hodgsoniae* (R.M. Schust.) R.M. Schust. ex J.J. Engel, 2007.
- Cephalolobus sphenoloboides** R.M. Schust., *Rev. Bryol. Lichénol.* 34: 251. 1966. OTHER USE: *Andrewsianthus sphenoloboides* (R.M. Schust.) R.M. Schust. ex J.J. Engel, 2007.
- Cephalozia** subgen. **Eucephalozia** J.J. Engel, *Novon* 17: 312. 2007. TYPE: *Cephalozia badia* (Gottsche) Steph., *Bull. Herb. Boissier*, sér. 2 8: 483. 1908 (*Spec. Hepat.* (Stephani) 3: 313. 1908). SEE Engel (2007a).
- Cephalozia austrigena** R.M. Schust. ex J.J. Engel, *Novon* 17: 312. 2007. New Zealand [South Island]. SEE Engel (2007a).
- Cephalozia pachygyna** R.M. Schust. ex J.J. Engel, *Novon* 17: 313. 2007. New Zealand [South Island]. SEE Engel (2007a).
- Cephalozia scabrella** C. Massal., *Nuovo Giorn. Bot. Ital.* 17: 233. 1885. OTHER USE: *Andrewsianthus scabrellus* (C. Massal.) R.M. Schust. ex J.J. Engel, 2007.
- Cephalozia schusteri** S.K. Singh et D.K. Singh, *Lindbergia* 32: 1. 2007. India [Himachal Pradesh]. SEE Singh & Singh (2007a).
- Cephalozia schusteriana** J.J. Engel, *Novon* 17: 313. 2007. New Zealand [South Island]. SEE Engel (2007a).
- Cephaloziella arctica** Bryhn et Douin, 1913.
- Cephaloziella arctica** var. *subantarctica* R.M. Schust., *Nova Hedwigia* 22: 197. 1972. OTHER USE: *Cephaloziella varians* var. *subantarctica* (R.M. Schust.) R.M. Schust. ex J.J. Engel, 2007.
- Cephaloziella pseudocrassigyna** R.M. Schust. ex J.J. Engel, *Novon* 17: 313. 2007. New Zealand [South Island]. SEE Engel (2007a).
- Cephaloziella spinigera** (Lindb.) Jørg., 1894.
- Cephaloziella spinigera** f. *striatula* (C.E.O. Jensen) Damsh., *Lindbergia* 28: 124. 2003. BASIONYM: *Cephalozia striatula* C.E.O. Jensen, *Rev. Bryol.* 31: 25. 1904. SEE Damsholt (2003).
- Cephaloziella varians** (Gottsche) Steph., 1905.
- Cephaloziella varians** var. *subantarctica* (R.M. Schust.) R.M. Schust. ex J.J. Engel, *Novon* 17: 314. 2007. BASIONYM: *Cephaloziella arctica* var. *subantarctica* R.M. Schust., *Nova Hedwigia* 22: 197. 1972. SEE Engel (2007a).

- Ceratolejeunea atlantica*** Alvarenga et Ilk.-Borg., *Nova Hedwigia* 86: 238. 2008. Brazil [Alagoas]. SEE Ilkiu-Borges (2008).
- Cheilolejeunea beyrichii*** (Lindenb.) M.E.Reiner, *Nova Hedwigia* 83: 474. 2006. BASIONYM: *Lejeunea beyrichii* Lindenb., *Syn. Hepat.* 3: 371. 1845. SEE Reiner-Drehwald (2006).
- Cheilolejeunea compacta*** (Steph.) M.E.Reiner, *Nova Hedwigia* 83: 474. 2006. BASIONYM: *Hygrolejeunea compacta* Steph., *Spec. Hepat.* (Stephani) 5: 532. 1914. SEE Reiner-Drehwald (2006).
- Cheilolejeunea eximia*** (Ast et Tixier) R.L.Zhu et M.L.So, *Beih. Nova Hedwigia* 121: 114. 2001. BASIONYM: *Pycnolejeunea eximia* Ast et Tixier, *Rev. Bryol. Lichénol.* 31: 31. 1962. Vietnam. SEE Zhu & So (2001).
- Cheilolejeunea lacerata*** C.Bastos et Gradst., *J. Bryol.* 28: 133. 2006. Brazil [Bahia]. SEE Bastos & Gradstein (2006).
- Cheilolejeunea neblinensis*** Ilk.-Borg. et Gradst., *Nova Hedwigia* 87: 522. 2008. Venezuela [Amazonas]. SEE Ilkiu-Borges & Gradstein (2008).
- Cheilolejeunea rupestris*** C.Bastos et Gradst., *J. Bryol.* 28: 136. 2006. Brazil [Bahia]. SEE Bastos & Gradstein (2006).
- Chiloscyphus* sect. *Lophocolea*** (Dumort.) Hentschel, *Pl. Syst. Evol.* 262: 129. 2006. BASIONYM: *Jungermannia* sect. *Lophocolea* Dumort., *Syll. Jungerm. Europ.*: 59. 1831. TYPE: *Jungermannia bidentata* L. SEE Hentschel et al. (2006).
- Chiloscyphus anisobus*** J.J.Engel et Glenny, *Bryologist* 111: 118. 2008. New Zealand [South Island]. SEE Engel & Glenny (2008a).
- Chiloscyphus dissitifolius*** (Herzog) Hentschel et Heinrichs, *Taxon* 56: 1139. 2007. BASIONYM: *Pachyglossa dissitifolia* Herzog, *Rev. Bryol. Lichénol.* 21: 259. 1952. SEE Hentschel et al. (2007a).
- Chiloscyphus fissus*** (Mitt.) Hentschel et Heinrichs, *Taxon* 56: 1139. 2007. BASIONYM: *Herpocladium fissum* Mitt., *J. Proc. Linn. Soc., Bot. Botany* 15: 69. 1876. SEE Hentschel et al. (2007a).
- Chiloscyphus grolleanus*** (Váňa) Hentschel et Heinrichs, *Taxon* 56: 1139. 2007. BASIONYM: *Pachyglossa grolleana* Váňa, *Cryptog. Bryol.* 26: 86. 2005. SEE Hentschel et al. (2007a).
- Chiloscyphus inflatus*** Steph., 1907.
- Chiloscyphus inflatus* var. *fragilissimus*** N.Kitag., *Acta Phytotax. Geobot.* 30: 32. 1979. OTHER USE: *Heteroscyphus inflatus* var. *fragilissimus* (N.Kitag.) M.J.Lai et R.L.Zhu, *Ann. Bot. Fenn.* 45: 334. 2008.
- Chiloscyphus spegazzinianus*** (C.Massal.) Hentschel et Heinrichs, *Taxon* 56: 1139. 2007. BASIONYM: *Lophocolea spegazziniana* C.Massal., *Nuovo Giorn. Bot. Ital.* 17: 255. 1885. SEE Hentschel et al. (2007a).
- Chiloscyphus tenacifolius*** (Hook.f. et Taylor) Hentschel et Heinrichs, *Taxon* 56: 1139. 2007. BASIONYM: *Jungermannia tenacifolia* Hook.f. et Taylor, Hooker, *Bot. Antarct. Voy. I (Fl. Antarct. I)* "1844" 1: 40. 1844. SEE Hentschel et al. (2007a).
- Chiloscyphus yunnanensis*** C.Gao et Y.H.Wu, *Acta Bot. Yunnan.* 28: 119. 2006. China [Yunnan]. SEE Gao & Wu (2006).
- Cololejeunea arfakiana*** Pócs et J.Eggers, *Polish Bot. J.* 51: 155. 2006. Indonesia [New Guinea, West Irian]. SEE Pócs & Eggers (2006).
- Cololejeunea dauphinii*** R.L.Zhu, *J. Bryol.* 28: 277. 2006. NOTE: nom. nov. pro *Cololejeunea tixieri* M.I.Morales et G.Dauphin, *Trop. Bryol.* 14: 133. 1998, nom. illeg. Art. 53.1, non *Cololejeunea tixieri* Onr., *Bull. Jard. Bot. Natl. Belgique* 59: 436. 1989. SEE Zhu (2006).

- Cololejeunea diana* Wigginton, *J. Bryol.* 28: 364. 2006. St Helena. SEE Wigginton (2006).
- Cololejeunea eustacei* Pócs in Müller & Pócs, *J. Bryol.* 29: 83. 2007. Equatorial Guinea [Bioko Island]. SEE Müller & Pócs (2007).
- Cololejeunea gracilis* (Ast) Pócs in Dauphin *et al.*, *Cryptog. Bryol.* 29: 233. 2008. BASIONYM: *Aphanolejeunea gracilis* Ast, *Rev. Bryol. Lichénol.* 16: 21. 1947. SEE Dauphin *et al.* (2008).
- Cololejeunea gradsteinii* M.J.Lai *et* R.L.Zhu, *Ann. Bot. Fenn.* 45: 334. 2008. NOTE: nom. nov. pro *Cololejeunea pusilla* Tixier, *Nat. Hist. Bull. Siam Soc.* 23: 548. 1970, nom. illeg. Art. 53.1, non *Cololejeunea pusilla* Steph., *Hedwigia* 34: 251. 1895. SEE Lai *et al.* (2008).
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- Cololejeunea lichenyae* R.D.Porley, N.G.Hodgetts *et* M.Wigginton in Wigginton *et al.*, *J. Bryol.* 29: 7. 2007. Malawi. SEE Wigginton *et al.* (2007).
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