



Early Land Plants Today: Index of Liverworts & Hornworts 2011–2012

LARS SÖDERSTRÖM¹, ANDERS HAGBORG² & MATT VON KONRAT²

¹Department of Biology, Norwegian University of Science and Technology, N-7491, Trondheim, Norway; lars.soderstrom@ntnu.no

²Department of Research and Education, The Field Museum, 1400 South Lake Shore Drive, Chicago, IL 60605–2496, U.S.A.; mvonkonrat@fieldmuseum.org, hagborg@pobox.com

Abstract

A widely accessible list of known plant species is a fundamental requirement for plant conservation and has vast applications. An index of published names of liverworts and hornworts between 2011 and 2012 is provided as part of a continued effort in working toward producing a world checklist of this group. The list includes 25 higher taxa, 154 species, 31 infraspecific taxa, and 17 autonyms for 2011 and 2012, 12 of them are fossils. A few taxa not covered by the earlier indices for 2000–2010 are also included. 75 species and 15 infraspecific taxa are new to science.

Key words: Liverworts, hornworts, index, nomenclature

Introduction

Under the auspices of the Early Land Plants Today project, there has been a strong community-driven effort attempting to address the critical need to synthesize the vast nomenclatural, taxonomic and global distributional data for liverworts (Marchantiophyta) and hornworts (Anthocerotophyta) (von Konrat *et al.* 2010a). These endeavours are critical in providing the foundation to develop a working checklist of liverworts and hornworts worldwide; the first version is projected to be published in 2014. This effort is fundamental toward the development of a working list of all known plant species under the auspices of the *Convention on Biological Diversity* (CBD) and the *Global Strategy for Plant Conservation* (GSPC). The significance of this target was underscored again by the Conference of the Parties to the Convention on Biological Diversity who have further developed the GSPC into its second phase (2011–2020), taking into account current and emerging environmental challenges on plant diversity (Blackmore *et al.* 2011). 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). Progress towards the Targets of the *Global Strategy of Plant Conservation* (GSPC) have recently been reviewed by Paton & Lughadha (2011).

This index follows on from the resourceful indices of recent years: Index of Hepatics (Crosby & Engel 2006), the series Index of Bryophytes 2001–2004 (Crosby & Magill 2005) and Index of Bryophytes 2005 (Crosby & Magill 2006), as well as the most recently published Index of Liverworts and Hornworts 2006–2008 and 2009–2010 (von Konrat *et al.* 2010b, Söderström *et al.* 2012d). In the current index we list citations for names published for liverworts and hornworts during the period January 1, 2011 through December 31, 2012. Valid, illegitimate and invalid names that were overlooked by earlier indices (2000–2010) are also included. A bibliography contains complete citations for the places of publication of the names, their basionyms and blocking names. The format generally follows that of previous indices, especially Söderström *et al.* (2012d). Unlike previous indices, basionyms published before 2009 do not have their own entries here. Instead they follow the names of taxa built on them. For fossils we state the geological period. The type taxon is also provided for new higher taxa. All names are arranged alphabetically. Although names that we judge to be invalidly published under the Melbourne Code of Nomenclature (McNeill *et al.* 2012) are included in the list, nomenclaturally they are not accepted by the authors of this index, and therefore not published under the Melbourne Code of Nomenclature (McNeill *et al.* 2012). As in previous indices, no disposition is provided to an accepted name or to the taxonomy.

The number of names validly published during 2011 and 2012 includes 25 higher taxa, 153 species, 31 infraspecific taxa, and 12 fossils. In addition, 17 autonyms were also created. 75 species and 15 infraspecific taxa are new to science.

Format

Authorities and citation abbreviations follow the on-line version of Authors of Plant Names at the Royal Botanic Gardens, Kew, Website (www.ipni.org), which is an updated version of Brummitt & Powell (1992). For nomenclatural elements we follow the Melbourne Code of Nomenclature (McNeill *et al.* 2012).

The following outlines the format for the different categories of names published during the period. 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 Malombe *et al.* 2010). Entries may have an annotation in the form of a NOTE near the end. Common reasons for the note are superfluous combinations, blocking names, etc., and era for fossils.

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

Cheilolejeunea ulugurica Malombe, Eb.Fisch. et Pócs, *Acta Biol. Pl. Agr.* 1: 24, 2010 [2011] (see Malombe *et al.* 2010). TYPE: “Typus : TANZANIA, Uluguru Mts, N side of Bondwa peak, 1650–1880 m, 26 Dec. 1985, B. & T. Pócs, 8565/S, (Holotype: EGR, microslide!)”.

Its article from the Bibliography:

Malombe, I., Fischer, E. & Pócs, T. (2010 [2011]) *Cheilolejeunea ulugurica* (Lejeuneaceae, Marchantiophyta), a new species from Tanzania. *Acta Biologica Plantarum Agriensis* 1: 23–28.

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

Acromastigum furcatifolium (Steph.) E.A.Br., *Phytotaxa* 65: 58, 2012 (see Brown *et al.* 2012). BASIONYM: *Lepidozia furcatifolia* Steph., *J. & Proc. Roy. Soc. New South Wales* 48 (1/2): 112, 1914 (see Stephani & Watts 1914).

Its articles from the Bibliography:

Brown, E.A., Söderström, L., Hagborg, A., von Konrat, M.J. (2012) Notes on Early Land Plants Today. 10. A new combination in *Acromastigum*. *Phytotaxa* 65: 58–58.

Stephani, F. & Watts, W.W. (1914) Hepaticae australes. *Journal and Proceedings of the Royal Society of New South Wales* 48 (1/2): 94–135.

One or two asterisks preceding an entry indicate that the name has been interpreted by us as contrary to McNeill *et al.* (2012) being either illegitimate (a single asterisk) or invalid (two asterisks). We give both the article that we base our interpretation on, and a short statement about what we think is wrong. For example:

*****Clevea hyalina* var. *rufescens*** (S.W.Arnell) Konstant., *Polish Bot. J.* 57 (1): 185, 2012, *nom. inval.* ICN Art. 41.1; basionym not valid (see Konstantinova & Savchenko 2012). BASIONYM: *Clevea hyalina* f. *rufescens* S.W.Arnell, *Ark. Bot., n.s.* 4 (6): 123, 1959, *nom. inval.* ICN Art. 40.2; based on more than one gathering (see Arnell & Mårtensson 1959).

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

†***Appiana*** Steenbock, Stockey, G.D.Beard et Tomescu, *Amer. J. Bot.* 98 (6): 999, 2011 (see Steenbock *et al.* 2011). TYPE: *Appiana sillettiana* Steenbock, Stockey, G.D.Beard et Tomescu.

The index

Acromastigum furcatifolium (Steph.) E.A.Br., *Phytotaxa* 65: 58, 2012 (see Brown *et al.* 2012). BASIONYM: *Lepidozia furcatifolia* Steph., *J. & Proc. Roy. Soc. New South Wales* 48 (1/2): 112, 1914 (see Stephani & Watts 1914).

Acroscyphella* sect. *Tjiwidienses J.J.Engel, *Nova Hedwigia* 93 (3–4): 407, 2011 (see Engel 2011). TYPE: *Acroscyphella tjiwidiensis* (Sande Lac.) N.Kitag. et Grolle.

Anastrophyllum aristatum (Herzog ex N.Kitag.) A.E.D.Daniels, D.G.Long, Kariyappa et P.Daniel, *J. Bryol.* 34: 148,

- 2012 (see Daniels *et al.* 2012). BASIONYM: *Anastrophyllum bidens* var. *aristatum* Herzog ex N.Kitag., *J. Hattori Bot. Lab.* 33: 216, 1970 (see Kitagawa 1970).
- Aneura crumii*** L.Söderstr., A.Hagborg et von Konrat, *Phytotaxa* 65: 43, 2012 (see Söderström *et al.* 2012a). NOM. NOV. PRO *Cryptothallus hirsutus* H.A.Crum, *Bryologist* 99 (4): 438, 1996 (see Crum & Bruce 1996). BLOCKING NAME: *Aneura hirsuta* Furuki, *J. Hattori Bot. Lab.* 70: 317, 1991 (see Furuki 1991).
- Aponardia*** (R.M.Schust.) Váňa, *Phytotaxa* 65: 46, 2012 (see Váňa *et al.* 2012d). BASIONYM: *Nardia* subgen. *Aponardia* R.M.Schust., *Beih. Nova Hedwigia* 119: 360, 2002 (see Schuster 2002).
- Aponardia huerlimannii*** (Váňa et Grolle) Váňa, *Phytotaxa* 65: 46, 2012 (see Váňa *et al.* 2012d). BASIONYM: *Nardia huerlimannii* Váňa et Grolle, *Österr. Bot. Z.* 118 (3): 233, 1970 (see Váňa 1970).
- †***Appiana*** Steenbock, Stockey, G.D.Beard et Tomescu, *Amer. J. Bot.* 98 (6): 999, 2011 (see Steenbock *et al.* 2011). TYPE: *Appiana sillettiana* Steenbock, Stockey, G.D.Beard et Tomescu.
- †***Appiana sillettiana*** Steenbock, Stockey, G.D.Beard et Tomescu, *Amer. J. Bot.* 98 (6): 999, 2011 (see Steenbock *et al.* 2011). TYPE: “Holotype hic designatus—AW660 Gtop #15. Locality—Appian Way, south of Campbell River, British Columbia, Canada (49° 54' 42" N, 125° 10' 40" W; UTM 10U CA 5531083N, 343646E). Stratigraphic position and age—Oyster Bay Formation, middle Eocene”.
- †**Appianaceae** Steenbock, Stockey, G.D.Beard et Tomescu (fam.), *Amer. J. Bot.* 98 (6): 999, 2011 (see Steenbock *et al.* 2011). TYPE: *Appiana* Steenbock, Stockey, G.Beard et Tomescu.
- Archilejeunea nebeliana*** Gradst. et Schäf.-Verw., *Cryptog. Bryol.* 33 (2): 108, 2012 (see Gradstein & Schäfer-Verwimp 2012). TYPE: “Ecuador, Zamora-Chinchipec: ca 5 km S of Zamora, Parque Nacional Podocarpus, entrance Río Bombuscara, sendero Mirador, 4°06,831'S, 78°58.017'W, on thin trunks in submontane rain forest, 1075 m alt., 25 January 2011, A. Schäfer-Verwimp & M. Nebel 31924, STU, isotype in JE, QCQ”.
- *****Aureolejeunea microscypha*** (Hook.f. et Taylor) M.Wigginton, *Moss. Liverw. St Helena*: 25, 2012, *nom. inval.* ICN Art. 41.5; basionym not cited (see Wigginton 2012b). BASIONYM: *Jungermannia microscypha* Hook.f. et Taylor, *London J. Bot.* 4: 90, 1845 (see Hooker & Taylor 1845).
- Bazzania amblyphylla*** Meagher, *Nova Hedwigia* 92 (3–4): 487, 2011 (see Meagher 2011). TYPE: “Australia – Queensland, Babinda Falls, W.B.Schofield 79821 & M.I.Schofield, 26 Jun 1983. HOLOTYPE: NSW-498536. ISOTYPE: MEL”.
- Bazzania dulongensis*** L.P.Zhou et Li Zhang, *J. Bryol.* 34 (1): 22, 2012 (see Zhou *et al.* 2012). TYPE: “China. Yunnan Prov., Dulongjiang, habitat and altitude unknown, 9 August 1982, M. Zang 2132, Holotype KUN”.
- Bazzania fuhreri*** Meagher, *Nova Hedwigia* 92 (3–4): 488, 2011 (see Meagher 2011). TYPE: “Australia – Queensland [=New South Wales], Tysons Track near Darkwood, E.A.Brown 89/113a, 28 April 1989. HOLOTYPE NSW-436405. ISOTYPE: MEL”.
- Bazzania gamscottii*** Meagher, *Nova Hedwigia* 92 (3–4): 492, 2011 (see Meagher 2011). TYPE: “Australia – Queensland, Little Cooper Creek, Thornton Peak, M.D.Godwin C4298, 11 Jun 1998. HOLOTYPE: BRI-717077. ISOTYPE: MEL”.
- Bazzania hainanensis*** L.P.Zhou et Li Zhang, *J. Bryol.* 34 (1): 25, 2012 (see Zhou *et al.* 2012). TYPE: “China. Hainan Prov., Diaoluo, Mengshui Forest Station, on rock along streamlet, 400 m, 27 November 1977, 1977 Collection Team 3314, Holotype IBSC”.
- Bazzania orbani*** Pócs, *Acta Biol. Pl. Agr.* 1: 16, 2010 [2011] (see Pócs 2010a). TYPE: “Typus: SW Madagascar, Toliara Province, Isalo National Park, “Piscine naturelle”, a deep pool of a brook in a sandstone gorge, shaded by *Pandanus pulcher* trees, at 800 m alt., under overhanging streambank rocks, on soil. Coll. S. Orbán, 9455/J (Holotype EGR, Isotypes MO, TANA)”.
- Bazzania tessellata*** Meagher, *Nova Hedwigia* 92 (3–4): 492, 2011 (see Meagher 2011). TYPE: “Australia – Queensland, Thornton Peak, P.Phillips s.n., 7 Oct 1986. HOLOTYPE: MELU-506. ISOTYPE: MEL”.
- Brevianthus flavus* subsp. *crenulatus*** J.J.Engel, *Nova Hedwigia* 93 (3–4): 406, 2011 (see Engel 2011). TYPE: “Holotype: New Zealand, South Is., Westland Prov., Lake Kaniere Scenic Reserve, Lake Kaniere Rd, 125 m, Engel, von Konrat & Braggins 24815 (F); isotype: (CHR)”. NOTE: This subspecies also creates the autonym.
- Caudalejeunea tridentata*** R.L.Zhu, Y.M.Wei et Qiong He, *Bryologist* 114 (3): 469, 2011 (see Zhu *et al.* 2011a). TYPE: “CHINA. GUANGXI: Shangsi Co., Shiwandashan National Forest Park, between Sanchahe and Zhujiangyuan, 21°53'695" N, 107°54'459" E, on tree base of *Mytilaria laosensis* Lec., 350 m, 22 August 2010, Rui-Liang Zhu, Yu-Mei Wei & Qiong He 20100822-3A (holotype: HSNU!)”.
- *****Cephalozia sanctae-helenae*** M.Wigginton, *Moss. Liverw. St Helena*: 47, 2012, *nom. inval.* ICN Art. 40.6; type not explicitly indicated (see Wigginton 2012b). ORIGINAL MATERIAL: “[St. Helena] s.loc.spec”.

- Ceratolejeunea andringitrae*** Pócs, *Polish Bot. J.* 56 (2): 144, 2011 (see Pócs 2011a). TYPE: “SE MADAGASCAR, Ihorombe Region in former Fianarantsoa Province, Andringitra National Park. Montane rainforests on W side of Korokoro River, around Camp II, at 750–1000 m a.s.l., 22°13'S, 47°1–2'E, epiphyllous. Pócs & A. Szabó 9472/AF, 20–23 Sept. 1994 (HOLOTYPE: EGR, ISOTYPES: MO, TAN)”.
- Ceratolejeunea maranhensis*** Silva Brito et Ilk.-Borg., *Nova Hedwigia* 95 (3–4): 424, 2012 (see Brito & Ilkiu-Borges 2012). TYPE: “Brazil, Maranhão, Mirinzal municipality, Timbó Farm, non-flooded Amazonian forest, 20–50 m alt., 2°6'54.60"S and 44°50'47.58"W, on living tree, 10.8.2011, E.S.Brito 505 (holotypus, MG; isotypus, NY; E.S.Brito 503 (paratypus, MG))”.
- Ceratolejeunea saroltae*** Pócs, *Polish Bot. J.* 56 (2): 150, 2011 (see Pócs 2011a). TYPE: “MADAGASCAR, Toamasina Province, Maromizaha forest, mossy montane rainforest with bamboo (*Nastus* sp.) undergrowth on the summit ridge of Mt. Maromizaha, south of Andasibe Nat. Park, 1080–1214 m a.s.l., on twigs, *Sarolta* Pócs 9890/BJ, 26 Aug. 1998 (HOLOTYPE: EGR)”.
- Ceratolejeunea temnantha*** (Spruce) M.E.Reiner, *Cryptog. Bryol.* 32 (2): 95, 2011 (see Reiner-Drehwald 2011). BASIONYM: *Lejeunea temnantha* Spruce, *Trans. & Proc. Bot. Soc. Edinburgh* 15: 250, 1884 “*Potamo-Lejeunea*” (see Spruce 1884).
- ***Cheilolejeunea fulva*** (R.M.Schust.) W.Ye et R.L.Zhu ex M.Wigginton, *J. Bryol.* 34 (4): 275, 2012, *nom. inval.* ICN Art. 41.5; basionym not cited (see Wigginton 2012a). BASIONYM: *Aureolejeunea fulva* R.M.Schust., *Phytologia* 39 (4): 429, 1978 (see Schuster 1978a).
- Cheilolejeunea gottscheana*** C.J.Bastos, *J. Bryol.* 34 (4): 316, 2012 (see Bastos 2012b). NOM. NOV. PRO *Strepsilejeunea lindenbergii* Steph., *Hedwigia* 35 (3): 130, 1896 (see Stephani 1896). BLOCKING NAME: *Cheilolejeunea lindenbergii* (Gottsche) Mizut., *J. Hattori Bot. Lab.* 33: 326, 1970 (see Mizutani 1970).
- Cheilolejeunea hyalomarginata*** R.L.Zhu et Frank Müll., *Bryologist* 115 (2): 218, 2012 (see Zhu & Müller 2012). TYPE: “NEW CALEDONIA. Mont Panié, Aufstieg entlang des Wanderwegs von der Straße RPN 3 bis zum Gipfel, ca. 900–1300 m, sehr feuchter Regenwald, epiphyll, 14 Sept. 2001, *F. Müller NC18L* (holotype: HSNU; isotype: DR)”.
- Cheilolejeunea microscypha*** (Hook.f. et Taylor) M.Wigginton, *J. Bryol.* 34 (4): 269, 2012 (see Wigginton 2012a). BASIONYM: *Jungermannia microscypha* Hook.f. et Taylor, *London J. Bot.* 4: 90, 1845 (see Hooker & Taylor 1845).
- Cheilolejeunea norrisii*** (Grolle) M.A.M.Renner, *Bryologist* 115 (4): 550, 2012 (see Renner 2012). BASIONYM: *Lejeunea norrisii* Grolle, *Wiss. Z. Friedrich-Schiller-Univ. Jena, Math.-Naturwiss. Reihe* 31 (2): 215, 1982 (see Grolle 1982).
- Cheilolejeunea ornata*** C.J.Bastos, *J. Bryol.* 33 (1): 86, 2011 (see Bastos 2011). TYPE: “Brazil: Bahia, Igrapiúna, Michelin Ecological Reserve, 13°48'S, 39°10'W, Pacangê Forest fragment, 11 August 2006, C. Bastos 4681 (holotype, ALCB)”.
- Cheilolejeunea oscilla*** M.A.M.Renner, *Bryologist* 115 (4): 551, 2012 (see Renner 2012). TYPE: “AUSTRALIA, QUEENSLAND, North Kennedy, vicinity of Cardwell, Five Miles Creek Road, 18°18'S 146°01'E, 80m, *M.A.M. Renner 1646* and *E.A. Brown*, 1 Jul. 2005 (holotype: NSW866201; isotypes: BRI, CANB)”.
- Cheilolejeunea riparia*** (Steph.) M.E.Reiner, *Nova Hedwigia* 95 (3–4): 467, 2012 (see Reiner-Drehwald & Grolle 2012). BASIONYM: *Potamolejeunea riparia* Steph., *Sp. Hepat. (Stephani)* 5: 639, 1914 (see Stephani 1914). NOTE: also redundantly combined by Bastos, *J. Bryol.* 34 (4): 312, 2012 (see Bastos 2012c).
- Cheilolejeunea rotalis*** (Hook.f. et Taylor) M.Wigginton, *J. Bryol.* 34 (4): 270, 2012 (see Wigginton 2012a). BASIONYM: *Jungermannia rotalis* Hook.f. et Taylor, *London J. Bot.* 4: 89, 1845 (see Hooker & Taylor 1845).
- Cheilolejeunea tenerrima*** (Steph.) C.J.Bastos, *J. Bryol.* 34 (4): 317, 2012 (see Bastos 2012b). BASIONYM: *Strepsilejeunea tenerrima* Steph., *Sp. Hepat. (Stephani)* 5: 286, 1913 (see Stephani 1913).
- Cheilolejeunea ulugurica*** Malombe, Eb.Fisch. et Pócs, *Acta Biol. Pl. Agr.* 1: 24, 2010 [2011] (see Malombe *et al.* 2010). TYPE: “Typus : TANZANIA, Uluguru Mts, N side of Bondwa peak, 1650–1880 m, 26 Dec. 1985, B. & T. Pócs, 8565/S, (Holotype: EGR, microslide!)”.
- Chiloscyphus chinnarensis*** Manju, K.P.Rajesh et Madhus., *Acta Bot. Hung.* 53 (1–2): 152, 2011 (see Manju *et al.* 2011). TYPE: “India, Kerala, Idukki district, Chinnar Wildlife Sanctuary, Kariveppin shola, alt.: 1,850 m, on trunk of trees. Coll.: Manju, C. N. and Rajesh, K. P. (87425c), 19 January 2003. Holotype: CALI, isotypes: CALI, EGR”.
- Chiloscyphus engelii*** R.L.Zhu et M.J.Lai, *Ann. Bot. Fenn.* 48 (5): 372, 2011 (see Wang *et al.* 2011). NOM. NOV. PRO *Lophocolea javanica* Schiffn., *Akad. Wiss. Wien, Math.-Naturwiss. Kl., Denkschr.* 70: 195, 1900 (see Schiffner 1900). BLOCKING NAME: *Chiloscyphus javanicus* Steph., *Sp. Hepat.* 6: 308, 1922. (≡*Chiloscyphus schiffneri*

- J.J.Engel et R.M.Schust., *Nova Hedwigia* 39: 422, 1984 [1985], *nom. illeg.* (see Engel & Schuster 1984) [non *Chiloscyphus schiffneri* S.W.Arnell, *Österr. Akad. Wiss., Math. Naturwiss. Kl.* 111: 71, 1964 (see Schiffner & Arnell 1964)].
- ***Chiloscyphus profundus* var. *cladogynus* (R.M.Schust.) J.J.Engel ex G.Dauphin, Wunderlin, Essig et P.G.Davison, *J. Bot. Res. Inst. Texas* 5: 785, 2011, *nom. inval.* ICN Art. 41.5; basionym not cited (see Dauphin *et al.* 2011). BASIONYM: *Lophocolea heterophylla* subsp. *cladogyna* R.M.Schust., *Hepat. Anthocerotae N. Amer.* 4: 223, 1980 (Schuster 1980). NOTE: Apparently in error for *Chiloscyphus profundus* subsp. *cladogynus* (R.M.Schust.) J.J.Engel, *Phytologia* 83: 46, 1997 [1998] (see Engel 1997).
- Chiloscyphus yezoensis* T.Katag. et Furuki, *Bryol. Res.* 10 (7): 204, 2012 (see Katagiri & Furuki 2012). NOM. NOV. PRO *Lophocolea japonica* Steph., *Bull. Herb. Boissier (sér. 2)* 6 (11): 941 (121), 1906 (see Stephani 1906).
- ***Clevea hyalina* var. *rufescens* (S.W.Arnell) Konstant., *Polish Bot. J.* 57 (1): 185, 2012, *nom. inval.* ICN Art. 41.1; basionym not valid (see Konstantinova & Savchenko 2012). BASIONYM: *Clevea hyalina* f. *rufescens* S.W.Arnell, *Ark. Bot., n.s.* 4 (6): 123, 1959, *nom. inval.* ICN Art. 40.2; based on more than one gathering (see Arnell & Mårtensson 1959).
- Clevea pusilla* (Steph.) Rubas. et D.G.Long, *J. Bryol.* 33 (2): 167, 2011 (see Rubasinghe *et al.* 2011). BASIONYM: *Gollaniella pusilla* Steph., *Hedwigia* 44 (2): 74, 1905 (see Stephani 1905).
- Cololejeunea* subgen. *Incalejeunea* Tixier ex Pócs, *Acta Bryolichenol. Asiat.* 4: 129, 2011 (see Pócs & Piippo 2011). TYPE: *Cololejeunea erostrata* (Herzog) Bernecker et Pócs.
- Cololejeunea* subgen. *Metzgeriopsis* (K.I.Goebel) Pócs, *Acta Bryolichenol. Asiat.* 4: 106, 2011 (see Pócs & Piippo 2011). BASIONYM: *Metzgeriopsis* K.I.Goebel, *Ann. Jard. Bot. Buitenzorg* 7: 54, 1888 (see Goebel 1888).
- Cololejeunea altimontana* Pócs, *Acta Bryolichenol. Asiat.* 4: 78, 2011 (see Pócs & Piippo 2011). TYPE: “Papua New Guinea. West Sepik Prov. Star Mts. Near Mt. Capelle Base Camp, just within the border of subalpine forest, 3500 m alt., 5°S, 141°05'E. Epiphyllous on c. 1.5 m tall shrublet in undergrowth, 5.IV.975 A. *Touw 15254D* (L, holotype, EGR, microslide)”.
- Cololejeunea angustibracteata* (Schiffn.) Pócs, *Acta Bryolichenol. Asiat.* 4: 81, 2011 (see Pócs & Piippo 2011). BASIONYM: *Lejeunea angustibracteata* Schiffn., *Leberm., Forschungsr. Gazelle* 4: 34, 1889 (see Schiffner 1889).
- Cololejeunea aurantia* (Tixier) Thouvenot, *Cryptog. Bryol.* 32 (4): 290, 2011 (see Thouvenot *et al.* 2011). BASIONYM: *Jovetastella aurantia* Tixier, *Cryptog. Bryol. Lichénol.* 3 (1): 29, 1982 (see Tixier 1982).
- Cololejeunea bifalcata* Pócs, *Acta Bot. Hung.* 54 (1–2): 146, 2012 (see Pócs 2012a). TYPE: “Fiji Islands, Central part of Taveuni Island. NE side of Des Voeux Peak, at 960 m alt. S 16°50.220', W 179°58.369', epiphyllous in 10–20 m tall, mossy montane rainforest. Coll.: S. & T. Pócs 03280/CK, 27. Aug. 2003. (Holotype: EGR, isotype F)”.
- Cololejeunea blepharophylla* Pócs, *Acta Bot. Hung.* 54 (1–2): 149, 2012 (see Pócs 2012a). TYPE: “Fiji Islands, Central part of Taveuni Island. NE side of Des Voeux Peak, at 960 m alt. S 16°50.220', W 179°58.369', epiphyllous in 10–20 m tall, mossy montane rainforest. Coll.: S. & T. Pócs 03280/BM, 27. Aug. 2003. (Holotype: EGR, isotypes F, G, HSNU, SPRH)”.
- Cololejeunea crateris* Pócs, *Acta Bot. Hung.* 54 (1–2): 153, 2012 (see Pócs 2012a). TYPE: “Fiji Islands, S tip of TAVEUNI Island. In the crater of the extinct Tavuyagea volcano, at 200 m altitude, S 16°59.660', E 179°55.296', wet rainforest with many epiphytes, epiphyllous on ferns leaves. Coll.: S. & T. Pócs 03293/AN, 5. Sept. 2003 (Holotype: EGR, isotypes: F, SPRH)”.
- Cololejeunea flavovittata* Pócs, *Acta Bryolichenol. Asiat.* 4: 120, 2011 (see Pócs & Piippo 2011). TYPE: “Papua New Guinea. West Sepik Prov. Frieda River prospecting area Mt. Hartley 8 km N of Frieda Base Camp, well-developed moss forest on ridge, 4°38'S, 141°47'E, at 1350 m alt, loc. 5a, 1981 *T. Koponen 35287* (H, holotype, EGR, isotype)”.
- Cololejeunea kolombangarae* Pócs, *Acta Bryolichenol. Asiat.* 4: 67, 2011 (see Pócs & Piippo 2011). TYPE: “Solomon Islands. New Georgia Prov. Kolombangara I. In mat of *Bazzania horridula* Schiffn., intermixed with *Drepanolejeunea* sp. on moist shaded bark of tree in rainforest on middle slope of mountain ridge north of Vanga River on northwest side of island at 1000–1200 m alt., 7°57'S, 157°03'E, 13.VIII.1977 *D.H. Norris & G.L. Roberts 49790* (H, holotype)”.
- Cololejeunea kolombangarae* subsp. *sepikensis* Pócs, *Acta Bryolichenol. Asiat.* 4: 68, 2011, “*sepikense*” (see Pócs & Piippo 2011). TYPE: “Papua New Guinea. West Sepik Prov. Frieda River Prospecting Area of Frieda Copper Co., 9 km NW of Frieda Base camp, helipad M 200 of Nena area. Tropical rainforest and recent clearing, alt. 800 m, locality 3a, 4°40'S, 141°43'E, 1981 *T. Koponen 35033a* (H, holotype)”. NOTE: This subspecies also creates the autonym.

- Cololejeunea konratii*** Pócs, *Acta Bot. Hung.* 54 (1–2): 156, 2012 (see Pócs 2012a). TYPE: “Fiji Islands, Viti Levu Island, *Cyathea–Alpinia boia* elfin forest on the NE side of the summit with telecom tower 2 km E of Monasavu dam, on the decaying pseudostem of *Alpinia boia*, at 1050 m, S 17°45'20", E 178°04'11". Coll. T. Pócs, accompanied by M. von Konrat, J. Braggins, E. Brown, A. Fife, M. Renner, T. Lumbsch and guided by A. Naikatini. Pócs 08029/C, 16 Apr. 2008 (Holotype on microslide, EGR)”.
- Cololejeunea kuciana*** Pócs et Schäf.-Verw., *Polish Bot. J.* 57 (1): 51, 2012 (see Pócs & Schäfer-Verwimp 2012). TYPE: “ECUADOR, ZAMORA-CHINCHIPE, Reserva Biológica San Francisco ca 35 km east of Loja along road to Zamora, 3°58.7'S, 79°05.0'W, lower montane rain forest along ‘camino canal’, epiphyllous on Hymenophyllaceae, in association with *Cololejeunea sicaefolia*, *C. diaphana* and *Radula stenocalyx*, growing in the rather humid and shady understorey, 1890 m alt., 28 January 2011, A. Schäfer-Verwimp & M. Nebel 32062 (HOLOTYPE: STU; ISOTYPES: EGR, QCA)”.
- Cololejeunea magnifica*** Pócs, *Acta Bryolichenol. Asiat.* 4: 88, 2011 (see Pócs & Piippo 2011). TYPE: “Papua New Guinea. Morobe Prov. Huon Peninsula, Southern Range of Mt. Sarawaket 6 km SSW of Iloko. In upper montane rainforest approaching moss forest along trail between Iloko and Mt. Sarawaket, at 2700–2900 m alt., 147°10'E, 6°18.5'S. Locality 6z, 10.VII.1981 D.H. Norris 63363A (H, holotype, EGR, microslide)”.
- *****Cololejeunea mutabilis* var. *borneensis*** Chuah-Pet., *Polish Bot. J.* 56 (1): 26, 2011, *nom. inval.* ICN Art. 38.1(a); no description (see Chuah-Petiot 2011). NOTE: Apparently in error for *Cololejeunea mutabilis* f. *borneensis* Benedix, *Feddes Repert. Spec. Nov. Regni Veg. Beih.* 134: 28, 1953 (see Benedix 1953).
- Cololejeunea pacifica*** Pócs, *Acta Bot. Hung.* 54 (1–2): 158, 2012 (see Pócs 2012a). TYPE: “Fiji Islands, southern coast of Viti Levu Island (“Coral Coast”) in the high rainfall area. Between Navula and Lombau villages, along the Queens Road, at 2–3 m alt. S 18°12.483', E 178°10.813', epiphyllous in 10–12 m tall, *Pandanus tectorius* dominated swamp forest adjoining mangroves along lagunes on the coastal plain. Coll.: S. & T. Pócs 03260/N, 20. Aug. 2003 (Holotype: EGR)”.
- Cololejeunea saroltae*** Pócs, *Acta Bot. Hung.* 54 (1–2): 160, 2012 (see Pócs 2012a). TYPE: “Fiji Islands, Western part of KADAVU (Kandavu) Island, 2 km NE of Tavuki village, at 150–175 m altitude. S 19°04.097–101', E 178°07.980'–08.249'. Epiphyllous in dry evergreen microphyllous forest with emergent *Gymnostoma vitiense* trees, many creeping *Flagellaria* and with *Schizaea dichotoma* and Cyperaceae in the ground layer, on orange red volcanic soil. Coll.: S. & T. Pócs 03309/BC, 15 Sept. 2003. (Holotype: EGR, isotypes F, G, HSNU, SPRH)”.
- Cololejeunea schmidtii* var. *acutepapillosa*** Pócs, *Acta Bot. Hung.* 54 (1–2): 165, 2012 (see Pócs 2012a). TYPE: “Type: Fiji Islands, E side of Taveuni Island. Around the 1st Tavoro Waterfalls, above Korovou (Bouma) village, at 10–100 m alt. S 16°49.608–620', W 179°52.555–850', epiphyllous in a very wet lowland rainforest with many tree-ferns and epiphytes. Coll.: S. & T. Pócs 03282/BK, 29. Aug. 2003 (Holotype: EGR)”. NOTE: This variety also creates the autonym.
- Cololejeunea stellaris*** Pócs, *Acta Bryolichenol. Asiat.* 4: 70, 2011 (see Pócs & Piippo 2011). TYPE: “Papua New Guinea. West Sepik Prov. Star Mts. c. 5°S, 141°E, 3050 m alt. Tel Basin; Montane forest above Camp 2, on shrubs in undergrowth, 5. April 1975 A. Touw 15739A (L, holotype, EGR, isotype)”.
- Cololejeunea stotleriana*** Gradst., Ilk.-Borg. et Vanderp., *Bryologist* 114 (1): 13, 2011 (see Gradstein *et al.* 2011). TYPE: “Ecuador. Zamora-Chichipe: Río Nangaritza ca. 28 km S of Guayzimi, near Cabaños Yankuam, abundant on living leaves on trees in the periodically inundated banks of the river, with *Odontolejeunea lunulata*, *Ceratolejeunea coarina* and *Drepanolejeunea biocellata*, ca. 900 m a.s.l., 13 September 2008, S. R. Gradstein 12073 (holotype, QCA; isotypes, GOET, MG)”.
- Cololejeunea streimannii*** Pócs, *Acta Bryolichenol. Asiat.* 4: 96, 2011 (see Pócs & Piippo 2011). TYPE: “Papua New Guinea. Western Highlands Prov. Gernt River, Jimi Valley near Ruti, 54 N of Mt. Hagen, lowland rainforest at 600 m alt., 5°22'S, 144°16'E. Epiphyllous, on leaf of small palm, 2.VII.1982 H. Streimann 21977 p.p. (associated with *Cololejeunea angulata* (Steph.) Mizut.) (H, holotype, isotypes in CBG 8402867, JE, LAE, NICH, NY, microslide in EGR)”.
- Cololejeunea streimannii* subsp. *solomonensis*** Pócs, *Acta Bryolichenol. Asiat.* 4: 96, 2011 (see Pócs & Piippo 2011). TYPE: “Type: Solomon Islands. New Georgia Prov. Kolombangara I. Lowland rainforest along ridge north of Wanga River on northwest side of island, 7°56'S, 156°5'E, 100–300 m alt. D.H. Norris & G.L. Roberts 49279B (H, holotype, EGR, isotype, paratype in H from the same locality, D.H. Norris & G.L. Roberts 49255D)”. NOTE: This subspecies also creates the autonym.
- Cololejeunea subalpina*** Pócs, *Acta Bryolichenol. Asiat.* 4: 98, 2011 (see Pócs & Piippo 2011). TYPE: “Papua New Guinea. West Sepik Prov. Star Mts., near Mt. Capella Base Camp. Epiphyllous, 5°S, 141°05'E, at 3500 m alt., 7.V.1975 A. Touw 17254A (L, holotype)”.

- Cololejeunea tamasii*** Schäf.-Verw., *Phytotaxa* 60: 9, 2012 (see Schäfer-Verwimp 2012). TYPE: “PANAMA. Chiriqui: Cordillera de Talamanca, Boquete, Ostseite des Vulkan Baru, Regenwald entlang der Erdstraße zum Sendero Los Quetzales, epiphyll, 1880 m, 8°51.0'N, 82°29.9'W, 7 April 2010, A. Schäfer-Verwimp & I. Verwimp 30992 (holotype JE!; isotype EGR!)”.
- Cololejeunea timoi*** Pócs, *Acta Bryolichenol. Asiat.* 4: 98, 2011 (see Pócs & Piippo 2011). TYPE: “Papua New Guinea. Morobe Prov. Lake Wamba 5 km S of Teptep airstrip. Heavily disturbed (pigs) montane forest with large *Pandanus* trees S of lake, 5°S, 141°05'E, at 2400 m alt., on root of *Pandanus*, locality 2b, 23 July 1981 T. Koponen 33354 (H, holotype)”.
- Cololejeunea touwii*** Pócs, *Acta Bryolichenol. Asiat.* 4: 101, 2011 (see Pócs & Piippo 2011). TYPE: “Papua New Guinea. West Sepik Prov. Star Mts., Fologonom, upper montane forest near Papuan hunting camp. Epiphyllous on fern leaves in the undergrowth, c. 5°S, 141°05'E, at 2300 m alt., A. Touw 17817F (L, holotype, EGR, H, isotypes)”.
- Cololejeunea trichomanis* subsp. *cordiflora*** (Steph.) Pócs, *Acta Bryolichenol. Asiat.* 4: 104, 2011 (see Pócs & Piippo 2011). BASIONYM: *Cololejeunea cordiflora* Steph., *Hedwigia* 34 (5): 246, 1895 (see Stephani 1895b). NOTE: This variety also creates the autonym.
- Cololejeunea tuiwawana*** Pócs, *Acta Bot. Hung.* 54 (1–2): 165, 2012 (see Pócs 2012a). TYPE: “Fiji Islands, Central part of Viti Levu Island, NE Edge of Rairaimatuku Plateau, Above Naqelewai village, S from “Barclay’s Point”, at 855–945 m alt. S 17°44.208–264', E 178°03.300–573', epiphyllous in montane mossy (cloud) forest. Coll.: S. & T. Pócs 03273/CG, 24. Aug. 2003 (EGR, SPRH)”.
- Cololejeunea zantenorum*** Pócs, *Acta Bryolichenol. Asiat.* 4: 127, 2011 (see Pócs & Piippo 2011). TYPE: “Papua New Guinea. Morobe Prov. E part of Cromwell Mts., epiphyllous on fern leaflets in dense rainforest along Soing River c. 7 km W of Sivea, at 1850–1900 m alt., 6°19'S, 147°32'E, loc. 9d, D.H. Norris 61605 (H, holotype)”.
- Colura irrorata*** (Spruce) Heinrichs, Y.Yu, Schäf.-Verw. et Pócs, *Phytotaxa* 66: 58, 2012 (see Heinrichs *et al.* 2012a). BASIONYM: *Myriocolea irrorata* Spruce, *Trans. & Proc. Bot. Soc. Edinburgh* 15: 305, 1884 (see Spruce 1884).
- Colura thomeensis*** Pócs, *Bryologist* 114 (2): 363, 2011 (see Pócs 2011b). TYPE: “São Thomé Island, S of Pico Cão Grande, NNE of Monte Mario village, in old partly abandoned oil plant plantation, at 60 m alt., epiphyllous, T. Pócs 00156/M. 31. Aug. 2000 (holotype: EGR, isotypes: DR, G)”.
- *****Cylindrocolea helenae*** M.Wigginton, *Moss. Liverw. St Helena*: 49, 2012, *nom. inval.* ICN Art. 40.2; based on more than one gathering (see Wigginton 2012b). ORIGINAL MATERIAL: [Sancta Helena] s.loc.spec.
- Dendroceros paivae*** C.A.Garcia, Sérgio et J.C.Villarreal, *Cryptog. Bryol.* 33 (1): 5, 2012 (see Garcia *et al.* 2012). TYPE: “São Tomé e Príncipe. Ilha de São Tomé. Caminho para a Roça Trás-os-Montes. 32NKF3129. 1038 m. 19-07-2007. Epiphyllous on leaves of *Syzygium jambos* (L.) Alston. C. Garcia ST 125 (LISU 237201)”.
- Drepanolejeunea evansii*** Bischl. ex L.Söderstr., A.Hagborg et von Konrat, *Phytotaxa* 65: 47, 2012 (see Söderström *et al.* 2012b). BASED ON: *Drepanolejeunea evansii* Bischl., *Rev. Bryol. Lichénol.* 33 (1–2): 75, 1964, *nom. inval.* ICN Art. 39.1; no Latin description (see Bischler 1964).
- Drepanolejeunea fragilis*** Bischl. ex L.Söderstr., A.Hagborg et von Konrat, *Phytotaxa* 65: 47, 2012 (see Söderström *et al.* 2012b). BASED ON: *Drepanolejeunea fragilis* Bischl., *Rev. Bryol. Lichénol.* 33 (1–2): 123, 1964, *nom. inval.* ICN Art. 36.1; no Latin description (see Bischler 1964).
- Drepanolejeunea laciniata*** Qiong He et R.L.Zhu, *Cryptog. Bryol.* 33 (3): 292, 2012 (see He *et al.* 2012a). TYPE: “Thailand. Chiang Mai Province: Chom Thong District, Doi Inthanon National Park, summit, *Sphagnum* bog, 18°58' 14"N, 98°48' 62" E, 2530 m, on living leaves of *Rhododendron* sp., 20 Dec. 2011, Rui-Liang Zhu 20111220-30A (holotype: HSNU!)”.
- *****Drepanolejeunea micholitzii* var. *brevifolia*** Chuah-Pet., *Polish Bot. J.* 56: 29, 2011, *nom. inval.* ICN Art. 38.1(a); no description (see Chuah-Petiot 2011). NOTE: Apparently in error for *Drepanolejeunea micholitzii* f. *brevifolia* Herzog, *Ann. Bryol.* 7: 64, 1934, *nom. inval.* ICN Art. 38.1(a); no description (see Herzog 1934).
- Endogemma*** Konstant., Vilnet et A.V.Troitsky, *Folia Cryptog. Estonica* 48: 132, 2011 (see Vilnet *et al.* 2011). TYPE: *Endogemma caespiticia* (Lindenb.) Konstant., Vilnet et A.V.Troitsky.
- Endogemma caespiticia*** (Lindenb.) Konstant., Vilnet et A.V.Troitsky, *Folia Cryptog. Estonica* 48: 132, 2011 (see Vilnet *et al.* 2011). BASIONYM: *Jungermannia caespiticia* Lindenb., *Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur.* 14, suppl.: 67, 1829 “*caespititia*” (see Lindenberg 1829).
- Endogemmataceae** Konstant., Vilnet et A.V.Troitsky (fam.), *Folia Cryptog. Estonica* 48: 132, 2011 (see Vilnet *et al.* 2011). TYPE: *Endogemma* Konstant., Vilnet et A.V.Troitsky.

- Eotrichocolea furukii* T.Katag., *Bryologist* 115 (4): 519, 2012 (see Katagiri *et al.* 2012). TYPE: “MALAYSIA. BORNEO, Sabah, Mt. Kinabalu, along Silau-Silau Trail, near Headquarters, on soil, 1500 m alt., in evergreen forest, 17 Dec. 2003, Furuki & Suleiman 18951 (holotype: CBM; isotypes: BORH, HIRO)”.
- ***Folioceros harrietii* S.J.Chavan, *Bioinfolet* 8 (3): 242, 2011, *nom. inval.* ICN Art. 40.1; no type indicated (see Chavan 2011). ORIGINAL MATERIAL: “[Andaman] s.loc.spec”.
- Folioceros verruculosus* (J.Haseg.) R.L.Zhu et M.J.Lai, *Ann. Bot. Fenn.* 48 (5): 383, 2011 (see Wang *et al.* 2011). BASIONYM: *Anthoceros verruculosus* J.Haseg., *Acta Phytotax. Geobot.* 44 (2): 103, 1993 (see Hasegawa 1993).
- Fossombronia ruminata* G.A.M.Scott et D.C.Pike ex Cargill, *Phytotaxa* 65: 45, 2012 (see Cargill *et al.* 2012). BASED ON: *Fossombronia maritima* G.A.M.Scott et D.C.Pike ex Cargill, *Fl. Austral. Suppl.* 21: 114, 2003, *nom. illeg.* ICN Art. 53.1; *hom. illeg.* [non (Paton) Paton 1994] (see McCarthy 2003).
- Frullania sect. Amphijubula* (R.M.Schust.) von Konrat, Hentschel, Heinrichs et Braggins, *Bryologist* 114 (1): 53, 2011 (see von Konrat *et al.* 2011b). BASIONYM: *Amphijubula* R.M.Schust., *J. Hattori Bot. Lab.* 33: 298, 1970 (see Schuster 1970).
- †*Frullania baerlocheri* Heinrichs, M.E.Reiner, K.Feldberg, von Konrat, Hentschel, Vána et A.R.Schmidt, *Rev. Palaeobot. Palynol.* 169: 26, 2012 (Heinrichs *et al.* 2012). TYPE: “Amber inclusion AMNH Bu-FB 1 g, American Museum of Natural History, New York, Plate IV”
- Frullania curvilobula* Schäf.-Verw., D.F.Peralta et S.M.Siqueira, *Phytotaxa* 57 (1): 27, 2012 (see Schäfer-Verwimp *et al.* 2012). TYPE: “BRAZIL. São Paulo: Cananéia, Ilha do Cardoso, Pico do Cardoso, em vegetação arbustiva, substrato caule e ramos, 9 April 1991, S.R. Visnadi & D.M. Vital 4282 (holotype SP!)”.
- Frullania evelynae* var. *devendrae* Sushil K.Singh et Barbhuiya, *Taiwania* 57 (2): 109, 2012 (see Singh & Barbhuiya 2012). TYPE: “INDIA, Mizoram, towards Pangkhua from Sangau, Terrestrial, 28.06.2008, S. K. Singh 119860 (ASSAM: Holotype)”. NOTE: This variety also creates the autonym.
- Frullania evelynae* var. *srivastavae* Sushil K.Singh et Barbhuiya, *Taiwania* 57 (2): 112, 2012 (see Singh & Barbhuiya 2012). TYPE: “INDIA, Mizoram, Thaltlang, epiphytic, growing in association with *Frullanoides* sp., 25.06.2008, S. K. Singh 119728 (ASSAM: Holotype)”.
- Frullania knightbridgei* von Konrat et de Lange, *PhytoKeys* 8: 28, 2012 (see von Konrat *et al.* 2012a). TYPE: “New Zealand: Stewart Island: Rakiura/Stewart Island National Park, 500 m. from North Arm Hut, on bark of *Dracophyllum longifolium* overhanging water on margin of Patterson Inlet, canopy of stunted *Dacrydium cupressinum* and *Metrosideros umbellata*. Near sea level, 46°52'55"S, 168°01'04"E, 12 Dec 1999, M. von Konrat 99/12-09 (holotype AK; isotypes CHR, F)”.
- Frullania larjiana* var. *didyhatii* S.N.Srivast. et M.Rai, *Geophytology* 41: 109, 2011, “*largiana*” (see Srivastava & Rai 2011). TYPE: “India, Uttarakhand, Pithoragarh district, Didyhat (2020 m) April 1982, leg. S. N. Srivastava: H-82/1 (holotype); H-82/2 (Isotype). Deposited in Allahabad University Herbarium”. NOTE: This variety also creates the autonym.
- Frullania mizoramensis* Sushil K.Singh et Barbhuiya, *Taiwania* 57 (2): 106, 2012 (see Singh & Barbhuiya 2012). TYPE: “INDIA, Mizoram, Thaltlang to Sangau, Terrestrial, 26.06.2008, S. K. Singh 119808 (ASSAM: Holotype)”.
- ***Frullania ornithocephala* var. *magnilobula* S.Hatt. ex Chuah-Pet., *Polish Bot. J.* 56 (1): 21, 2011, *nom. inval.* ICN Art. 38.1(a); no description (see Chuah-Petiot 2011). NOTE: Apparently in error for *Frullania ornithocephala* f. *magnilobula* S.Hatt., *J. Hattori Bot. Lab.* 40: 491, 1976 (see Hattori 1976).
- ***Frullania ornithocephala* var. *retusa* S.Hatt. ex Chuah-Pet., *Polish Bot. J.* 56 (1): 21, 2011, *nom. inval.* ICN Art. 38.1(a); no description (see Chuah-Petiot 2011). NOTE: Apparently in error for *Frullania ornithocephala* f. *retusa* S.Hatt., *J. Hattori Bot. Lab.* 40: 491, 1976 (see Hattori 1976).
- Frullania parhamii* (R.M.Schust.) R.M.Schust. ex von Konrat, L.Söderstr. et A.Hagborg, *Telopea* 13 (3): 407, 2011 (see Söderström *et al.* 2011). BASIONYM: *Neohattoria parhamii* R.M.Schust., *J. Hattori Bot. Lab.* 26: 243, 1963 “*parhami*” (see Schuster 1963).
- ***Frullania serrata* var. *crispulodentata* Verd. ex Chuah-Pet., *Polish Bot. J.* 56 (1): 21, 2011, “*crispulo-dentata*”, *nom. inval.* ICN Art. 38.1(a); no description (see Chuah-Petiot 2011). NOTE: Apparently in error for *Frullania serrata* f. *crispulo-dentata* Verd., *Ann. Bryol.* 2: 142, 1928 (see Verdoorn 1928).
- Frullania truncatistyla* von Konrat, Hentschel, Heinrichs et Braggins, *Bryologist* 114 (1): 63, 2011 (see von Konrat *et al.* 2011). TYPE: “New Zealand. North Island: Coromandel State Forest Park, summit of Table Mountain. On bark of *Dacrydium cupressinum*. Poorly drained, mucky, fine, peat floor in wet mossy forest of *Lepidothamnus intermedius*, *Ixerba brexioides* and *Dacrydium cupressinum* with occasional *Phyllocladus toatoa*. 37°3'S., 175°40'E. 835 m., 14 February 1997, von Konrat 97/132 (holotype: AK; isotypes: CHR, F)”.

- †*Frullania ucrainica* Konstant. et Ignatov, *Arctoa* 21: 269, 2012 (see Konstantinova *et al.* 2012). TYPE: “HOLOTYPE: Klesov. Rovno amber. Late Eocene. SIZK-K-6581 [syninclusions: 4 workers of *Dolichoderus* sp. (Formicidae) (K-6580), Collembola, Entomobryomorpha (K-6581)”.
- Goebelobryum vermiculare* J.J.Engel et Glenny, *Nova Hedwigia* 95 (3–4): 320, 2012 (see Engel & Glenny 2012). TYPE: “Holotype: New Zealand, Western Nelson Province, Tiropahi River, Charleston Conservation Area, 110 m, Glenny 9298 (F); isotype: (CHR 579823)”.
- Gottschea* sect. *Tuloides* (R.M.Schust.) J.J.Engel, *Nova Hedwigia* 93 (3–4): 407, 2011 (see Engel 2011). BASIONYM: *Paraschistochila* sect. *Tuloides* R.M.Schust., *Bull. Natl. Sci. Mus. Tokyo, n.s.* 14 (4): 647, 1971 (see Schuster 1971).
- Gottschea conchophylla* var. *multidentata* J.J.Engel, *Nova Hedwigia* 93 (3–4): 407, 2011 (see Engel 2011). TYPE: “Holotype: New Zealand, South Is., Canterbury, Arthurs Pass, falls behind Department of Conservation Station, off Avalanche Peak Track, ca. 790 m, Engel & von Konrat 27243 (F); isotype: (CHR)”. NOTE: This variety also creates the autonym.
- Gottschea isotachyphylla* (J.J.Engel et R.M.Schust.) J.J.Engel, *Nova Hedwigia* 93 (3–4): 407, 2011 (see Engel 2011). BASIONYM: *Paraschistochila isotachyphylla* J.J.Engel et R.M.Schust., *J. Hattori Bot. Lab.* 58: 429, 1985 (see Schuster & Engel 1985).
- Harpalejeunea scabra* Gradst. et Schäf.-Verw., *Cryptog. Bryol.* 32 (2): 102, 2011 (see Gradstein & Schäfer-Verwimp 2011). TYPE: “Colombia, Risaralda, road to Mistrato – San Antonio de Chami just beyond the pass, quebrada of Río Sutú, 1800 m, rather heavily logged, low montane cloud forest along the river, on rock, 30 July 1992, S.R. Gradstein 8695 (holotype, COL; isotype, GOET)”.
- ***Herbertus mascarenicus* var. *kikujensis* Gola ex N.G.Hodgetts, *J. Bryol.* 30 (4): 252, 2008, *nom. inval.* ICN Art. 36.1(c); publ. in syn. [sub *Herbertus dicranus* (Taylor ex Gottsche, Lindenb. et Nees) Trevis. 1877] “*kikujense*” (see Hodgetts 2008). BASED ON: *Schisma mascarenicum* var. *kikujensis* Gola, *Mem. Reale Accad. Sci. Torino, ser.* 2 65 (1): 7, 1916 (see Gola 1916).
- Herbertus norenius* D.G.Long, D.Bell et H.H.Blom, *Molec. Ecol. Res.* 12: 44, 2012 (see Bell *et al.* 2012). TYPE: “Holotype: Norway, Rogaland, Forsand Parish, S side of Lysefjord, ravine, Giskasetet, 58°59'58.4"N, 06°18'49.5"E, N-facing ravine with large waterfall, on cliff ledge with *Breutelia* and *Sphagnum denticulatum*, 5 m, 9 September 2008, D.G. Long 38081 (with G.P. Rothero, D.S. Rycroft & H.H. Blom) (E). GenBank accessions JN113442, JN113483, JN113558, JN113519; BOLD ID HERB026-11”.
- Jubula hutchinsiae* subsp. *caucasica* Konstant. et Vilnet, *Arctoa* 20: 234, 2011 (see Konstantinova & Vilnet 2011). TYPE: “RUSSIA, Republic of Adygea, right bank of the Belaya River in surroundings of Guseripl' Town, cliffs on bank of small rivulet (43°59'30" N - 40°08'06" E), 682 m alt., the bottom of cliffs near water level, on rock and among mosses, 17.X.2007, Konstantinova # K463-1-07 (holotype KPABG, isotypes MW, MHA, VLA, LE)”.
- †*Kaolakia* Heinrichs, M.E.Reiner, K.Feldberg, von Konrat et A.R.Schmidt, *Rev. Palaeobot. Palynol.* 165 (3–4): 236, 2011 (see Heinrichs *et al.* 2011). TYPE: *Kaolakia borealis* Heinrichs, M.E.Reiner, K.Feldberg, von Konrat et A.R.Schmidt.
- †*Kaolakia borealis* Heinrichs, M.E.Reiner, K.Feldberg, von Konrat et A.R.Schmidt, *Rev. Palaeobot. Palynol.* 165 (3–4): 236, 2011 (see Heinrichs *et al.* 2011). TYPE: “Holotype: Amber inclusion no. AMNH AK-1, American Museum of Natural History, New York (Plate I). Type locality: Northern Alaska: Kaolak River south of Wainwright at 69–70° N, 159–160°W. Stratigraphic range and age: Upper Cretaceous: Cenomanian, about 95 million years old”.
- Kurzia capillaris* subsp. *paramicola* Pócs, *Acta Biol. Pl. Agr.* 2: 102, 2012 (see Pócs 2012b). TYPE: “COLOMBIA, Departamento Cundinamarca, Páramo de Palacio, approx. 500 m NW de la mina de Cal, vertiente húmedo con *Swallenochloa*, *Sphagnum*, *Breutelia* y *Riccardia*, alt. 3530 m, 13-V-1972. Coll. A.M. Cleef 3781, (Holotype U, Isotypes COL 379349, EGR only on microslide)”.
- Lamellocolea integrostia* J.J.Engel et Glenny, *Bryologist* 114 (1): 23, 2011 (see Engel & Glenny 2011). TYPE: “New Zealand. SOUTH ISLAND. Western Nelson Ecological Prov., Ngakawau Ecological District, Mokihinui Forest, Watson Stream, 290 m, NZMG N5955478 E2423588, 41° 37.48'S, 171° 57.30'E, Glenny 10545, 27 Jan 2009 (holotype: F, isotype: CHR)”.
- ***Leiocolea badensis* var. *apiculata* Konstant., *Polish Bot. J.* 57 (1): 186, 2012, *nom. inval.* ICN Art. 40.6; type not explicitly indicated (see Konstantinova & Savchenko 2012). NOTE: Apparently in error for *Lophozia badensis* var. *apiculata* R.M.Schust., *Hepat. Anthocerotae N. Amer.* 2: 415, 1969 (see Schuster 1969).
- Leiomitra merrillana* (Steph.) T.Katag., *Bryologist* 115 (4): 488, 2012 (see Katagiri & Deguchi 2012). BASIONYM: *Trichocolea merrillana* Steph., *Sp. Hepat. (Stephani)* 6: 374, 1923 (see Stephani 1923).

- Leiosporocerotaceae** Hässel ex Ochrya (fam.), *Polish Bot. J.* 56: 115, 2011 (see Ochrya 2011). TYPE: *Leiosporoceros* Hässel.
- Lejeunea barbata*** (Herzog) R.L.Zhu et M.J.Lai, *Ann. Bot. Fenn.* 48 (5): 376, 2011 (see Wang *et al.* 2011). BASIONYM: *Rectolejeunea barbata* Herzog, *J. Hattori Bot. Lab.* 14: 49, 1955 (see Herzog & Noguchi 1955).
- Lejeunea bornmuelleri*** (Steph.) M.E.Reiner, *Nova Hedwigia* 95 (3–4): 471, 2012 (see Reiner-Drehwald & Grolle 2012). BASIONYM: *Rectolejeunea bornmuelleri* Steph., *Sp. Hepat. (Stephani)* 5: 682, 1914 (see Stephani 1914).
- Lejeunea combuensis*** O.S.Moura, Ilk.-Borg. et M.E.Reiner, *Nova Hedwigia* 95 (1–2): 198, 2012 (see Moura *et al.* 2012). TYPE: “Brazil, Pará, Belém, Combu Island, Lower Várzea forest, on living tree, at sea level, 26/IX/2008, O.S. de Moura *et al.* 204 (holotypus MG, isotypus GOET), 207, 211 (paratypus MG, isoparatype NY, SP); on decaying trunk, 27/IX/2008, O.S. de Moura *et al.* 274 (paratypus MG, isoparatype GOET, RB)”.
- Lejeunea drehwaldii*** Heinrichs et Schäf.-Verw., *Phytotaxa* 69: 14, 2012 (see Heinrichs *et al.* 2012b). NOM. NOV. PRO *Sphaerolejeunea umbilicata* Herzog, *Ann. Bryol.* 11: 88, 1938 (see Herzog 1938). BLOCKING NAME: *Lejeunea umbilicata* (Nees) Nees, *Nov. Actorum Acad. Caes. Leop.-Carol. Nat. Cur., suppl.* 19 (2): 472, 1843. (see Gottsche *et al.* 1843).
- *****Lejeunea fawcettiae*** D.J.Carr, *Proc. Roy. Soc. Victoria* 116 (2): 229, 2004, *nom. inval.* ICN Art. 40.7; no herbarium specified (see Carr 2004). ORIGINAL MATERIAL: “Holotype. The following description is based on the specimen (Carr, S.G.M. 357) collected by Mrs Carr in March 1957 growing on the bark of Blackwood (*Acacia melanoxylon*) tree near the Railway Station; Tooronga Falls, Noojee, Victoria”.
- Lejeunea fawcettiae*** D.J.Carr, *Proc. Roy. Soc. Victoria* 117: 325, 2005 (see Carr 2005). BASED ON: *Lejeunea fawcettiae* D.J.Carr, *Proc. Roy. Soc. Victoria* 116 (2): 229, 2004, *nom. inval.* ICN Art. 40.7; no herbarium specified (see Carr 2004).
- Lejeunea gradsteiniana*** Pócs, *Acta Biol. Pl. Agr.* 1: 55, 2010 [2011] (see Pócs 2010b). NOM. NOV. PRO *Ceratolejeunea aberrans* Steph., *Sp. Hepat. (Stephani)* 6: 399, 1923 (see Stephani 1923). BLOCKING NAME: *Lejeunea aberrans* Lindenb. et Gottsche, *Syn. Hepat.* 5: 751. 1847 (see Gottsche *et al.* 1847).
- Lejeunea gradsteinii*** G.E.Lee, Damanhuri et Latiff, *Acta Biol. Pl. Agr.* 1: 29, 2010 [2011] (see Lee *et al.* 2010). TYPE: “Malaysia, Sabah, Mt. Kinabalu, trail from Mempoening shelter to Layang-Layang staff quarters, montane forest, on tree trunk, 2500–2800 m alt., 12 November 2010, G.E. Lee 1891 (holotype, UKMB; isotype, PC)”.
- Lejeunea grolleana*** (Bernecker) R.L.Zhu et W.Ye, *J. Syst. Evol.* 51 (4): 472, 2013 [2012] (see Ye *et al.* 2013). BASIONYM: *Oryzolejeunea grolleana* Bernecker, *Hausknechtia, Beih.* 9: 37, 1999 (see Bernecker-Lücking 1999). NOTE: The combination was invalidly published twice prior to the valid publication (Zhu *et al.* 2011b: 46, Ye & Zhu 2012: 83, *non vidi*).
- Lejeunea hawaikiana*** M.A.M.Renner et de Lange, *New Zealand J. Bot.* 49 (3): 431, 2011 (see Renner & de Lange 2011). NOM. NOV. PRO *Stenolejeunea acuminata* R.M.Schust., *J. Hattori Bot. Lab.* 89: 156, 2000 (see Schuster 2000).
- Lejeunea luzonensis*** (Steph.) R.L.Zhu et M.J.Lai, *Ann. Bot. Fenn.* 48 (5): 376, 2011 (see Wang *et al.* 2011). BASIONYM: *Taxilejeunea luzonensis* Steph., *Hedwigia* 35 (3): 134, 1896 (see Stephani 1896).
- Lejeunea malangensis*** (Herzog) R.L.Zhu et Y.M.Wei, *J. Bryol.* 34 (4): 319, 2012 (see Zhu & Wei 2012). BASIONYM: *Trachylejeunea malangensis* Herzog, *Mitt. Inst. Allg. Bot. Hamburg* 7 (3): 203, 1931 (see Herzog 1931).
- ****Lejeunea saccatiloba*** (Steph.) R.L.Zhu et W.Ye, *J. Syst. Evol.* 51 (4): 472, 2013 [2012], *nom. illeg.* ICN Art. 53.1; *hom. illeg.* [non Steph. ex Anon. 1891] (see Ye *et al.* 2013). BASIONYM: *Archilejeunea saccatiloba* Steph., *Hedwigia* 34 (2): 61, 1895 (see Stephani 1895a). BLOCKING NAME: *Lejeunea saccatiloba* (Steph.) Steph. ex Anon., *Hedwigia* 30: IX, 1891 (see Anonymous 1891). NOTE: The combination was invalidly published twice prior to the valid publication (Zhu *et al.* 2011b: 46, Ye & Zhu 2012: 85; *non vidi*).
- *****Lejeunea squarrosa*** (Steph.) Y.M.Wei et R.L.Zhu, *Nat. Symp. Bryol. Abstr.*: 26–27, 2011, *nom. inval.* (ICN Art. 41.5; basionym not cited (see Wei & Zhu 2011; *non vidi*). BASIONYM: *Strepsilejeunea squarrosa* Steph., *Hedwigia* 35 (3): 130, 1896 (see Stephani 1896). NOTE: Name not available in *Lejeunea*.
- Lejeunea venezuelana*** (R.M.Schust.) R.L.Zhu et W.Ye, *J. Syst. Evol.* 51 (4): 473, 2013 [2012] (see Ye *et al.* 2013). BASIONYM: *Cyrtolejeunea venezuelana* R.M.Schust., *Phytologia* 39 (6): 426, 1978 (see Schuster 1978b). NOTE: The combination was invalidly published twice prior to the valid publication (Zhu *et al.* 2011b: 46, Ye & Zhu 2012: 85; *non vidi*).
- Lepidolaena novae-zelandiae*** (E.A.Hodgs. et S.W.Arnell) von Konrat, L.Söderstr. et A.Hagborg, *Phytotaxa* 65: 51, 2012 (see von Konrat *et al.* 2012b). BASIONYM: *Jubula novae-zelandiae* E.A.Hodgs. et S.W.Arnell, *Trans. Roy. Soc. New Zealand, Bot.* 3 (4): 90, 1965 (see Hodgson 1965).
- Lepidozia kashyapii*** D.Singh et D.K.Singh, *Nova Hedwigia* 94 (1–2): 222, 2012 (see Singh & Singh 2012). TYPE: “INDIA. Eastern Himalaya: Sikkim, East district, Kyangnoshla, ca. 3300m, 29.04.2004, D.K.Singh & D.Singh 35188B (CAL: Holotype et Isotype)”.

- Leptoscyphus autoicus* (J.J.Engel et Gradst.) Vanderp. et Gradst., *J. Bryol.* 34 (4): 252, 2012 (see Vanderpoorten *et al.* 2012). BASIONYM: *Physotheca autoica* J.J.Engel et Gradst., *Taxon* 52 (4): 764, 2003 (see Engel & Gradstein 2003).
- Leptoscyphus beckettianus* (Steph.) R.M.Schust. ex J.J.Engel, *Nova Hedwigia* 93 (3–4): 402, 2011 (see Engel 2011). BASIONYM: *Chiloscyphus beckettianus* Steph., *Bull. Herb. Boissier (sér. 2)* 8 (1): 59 (235), 1908 (see Stephani 1908a).
- Lophozia pacifica* Bakalin, *Bryologist* 114 (2): 302, 2011 (see Bakalin 2011). TYPE: “U.S.A.: Washington state, Whatcom Co., Austin Pass, ca. 1800 m alt., on soil, July 1998, *W. S. Hong* 25 (holotype: MO-5242474, isotype VLA)”.
- ***Lophozia* subgen. *Obtusifolium* (H.Buch) Bakalin, *Bryologist* 114 (2): 311, 2011, *nom. inval.* ICN Art. 41.1; basionym not valid (see Bakalin 2011). BASIONYM: *Barbilophozia* subgen. *Obtusifolium* H.Buch, *Memoranda Soc. Fauna Fl. Fennica* 17: 289, 1942, *nom. inval.* ICN Art. 39.1; no Latin description (see Buch 1942).
- Mesoptychia badensis* (Gottsche ex Rabenh.) L.Söderstr. et Váňa, *Phytotaxa* 65: 52, 2012 (see Váňa *et al.* 2012e). BASIONYM: *Jungermannia badensis* Gottsche ex Rabenh., *Hepat. Eur., Leberm.* 9–10: no. 95, 1859 (see Rabenhorst 1859).
- Mesoptychia bantriensis* (Hook.) L.Söderstr. et Váňa, *Phytotaxa* 65: 52, 2012 (see Váňa *et al.* 2012e). BASIONYM: *Jungermannia bantriensis* Hook., *Brit. Jungerm.*: pl. 41, 1813 (see Hooker 1813).
- Mesoptychia bantriensis* subsp. *wallfischii* (Ștefănuț) L.Söderstr. et Váňa, *Phytotaxa* 65: 52, 2012 (see Váňa *et al.* 2012e). BASIONYM: *Leiocolea bantriensis* subsp. *wallfischii* Ștefănuț, *Hornwort Liverwort Romania*: 21, 2008 (see Ștefănuț 2008). NOTE: This subspecies also creates the autonym.
- Mesoptychia chichibuensis* (Inoue) L.Söderstr. et Váňa, *Phytotaxa* 65: 53, 2012 (see Váňa *et al.* 2012e). BASIONYM: *Lophozia chichibuensis* Inoue, *J. Jap. Bot.* 36 (2): 41, 1961 (see Inoue 1961).
- Mesoptychia collaris* (Nees) L.Söderstr. et Váňa, *Phytotaxa* 65: 53, 2012 (see Váňa *et al.* 2012e). BASIONYM: *Jungermannia collaris* Nees, *Fl. Crypt. Erlang.*: XV, 1817 (see Martius 1817).
- Mesoptychia fitzgeraldiae* (Paton et A.R.Perry) L.Söderstr. et Váňa, *Phytotaxa* 65: 53, 2012 (see Váňa *et al.* 2012e). BASIONYM: *Leiocolea fitzgeraldiae* Paton et A.R.Perry, *J. Bryol.* 18 (3): 470, 1995 (see Paton & Perry 1995).
- Mesoptychia gillmanii* (Austin) L.Söderstr. et Váňa, *Phytotaxa* 65: 53, 2012 (see Váňa *et al.* 2012e). BASIONYM: *Jungermannia gillmanii* Austin, *Bull. Torrey Bot. Club* 3: 12, 1872 (see Austin 1872).
- Mesoptychia heterocolpos* (Thed. ex Hartm.) L.Söderstr. et Váňa, *Phytotaxa* 65: 53, 2012 (see Váňa *et al.* 2012e). BASIONYM: *Jungermannia heterocolpos* Thed. ex Hartm., *Handb. Skand. Fl., ed. 3*: 328, 1838 (see Hartman 1838).
- Mesoptychia heterocolpos* var. *arctica* (S.W.Arnell) L.Söderstr. et Váňa, *Phytotaxa* 65: 53, 2012 (see Váňa *et al.* 2012e). BASIONYM: *Leiocolea arctica* S.W.Arnell, *Svensk Bot. Tidskr.* 44 (2): 374, 1950 (see Arnell 1950). NOTE: This variety also creates the autonym.
- Mesoptychia heterocolpos* var. *harpanthoides* (Bryhn et Kaal.) L.Söderstr. et Váňa, *Phytotaxa* 65: 53, 2012 (see Váňa *et al.* 2012e). BASIONYM: *Lophozia harpanthoides* Bryhn et Kaal., *Rep. Second Norweg. Arctic Exped.* 11: 33, 1906 (see Bryhn 1906).
- Mesoptychia holmeniana* (Inoue et Steere) L.Söderstr. et Váňa, *Phytotaxa* 65: 53, 2012 (see Váňa *et al.* 2012e). BASIONYM: *Lophozia holmeniana* Inoue et Steere, *J. Hattori Bot. Lab.* 44: 285, 1978 “*holmenianum*” (see Steere & Inoue 1978).
- Mesoptychia igiana* (S.Hatt.) L.Söderstr. et Váňa, *Phytotaxa* 65: 54, 2012 (see Váňa *et al.* 2012e). BASIONYM: *Lophozia igiana* S.Hatt., *J. Jap. Bot.* 31 (7): 201, 1956 (see Hattori 1956).
- Mesoptychia mamatkulovii* (Duda) L.Söderstr. et Váňa, *Phytotaxa* 65: 54, 2012 (see Váňa *et al.* 2012e). BASIONYM: *Lophozia mamatkulovii* Duda, *Trans. Brit. Bryol. Soc.* 6 (1): 82, 1970 (see Duda 1970).
- Mesoptychia mayebarae* (S.Hatt.) L.Söderstr. et Váňa, *Phytotaxa* 65: 54, 2012 (see Váňa *et al.* 2012e). BASIONYM: *Cephalozia mayebarae* S.Hatt., *J. Hattori Bot. Lab.* 3: 37, 1948 (see Hattori 1948b).
- Mesoptychia morrisoncola* (Horik.) L.Söderstr. et Váňa, *Phytotaxa* 65: 54, 2012 (see Váňa *et al.* 2012e). BASIONYM: *Lophozia morrisoncola* Horik., *J. Sci. Hiroshima Univ., Ser. B, Div. 2, Bot.* 2: 150, 1934 (see Horikawa 1934).
- Mesoptychia rutheana* (Limpr.) L.Söderstr. et Váňa, *Phytotaxa* 65: 54, 2012 (see Váňa *et al.* 2012e). BASIONYM: *Jungermannia rutheana* Limpr., *Jahresber. Schles. Ges. Vaterl. Cult.* 61: 207, 1884 (see Limpricht 1884).
- Mesoptychia rutheana* var. *laxa* (Schiffn. ex Burrell) L.Söderstr. et Váňa, *Phytotaxa* 65: 54, 2012 (see Váňa *et al.* 2012e). BASIONYM: *Lophozia schultzii* var. *laxa* Schiffn. ex Burrell, *J. Bot.* 49: 217, 1911 (see Burrell 1911). NOTE: This variety also creates the autonym.
- Mesoptychia subcrispa* (Herzog) L.Söderstr. et Váňa, *Phytotaxa* 65: 54, 2012 (see Váňa *et al.* 2012e). BASIONYM: *Lophozia subcrispa* Herzog, *Ann. Naturhist. Mus. Wien* 53 (1): 362, 1942 (see Herzog 1942).

- Mesoptychia turbinata** (Raddi) L.Söderstr. et Váňa, *Phytotaxa* 65: 55, 2012 (see Váňa *et al.* 2012e). BASIONYM: *Jungermannia turbinata* Raddi, *Jungermanniogr. Etrusca* [=Mem. Mat. Fis. Soc. Ital. Sci. Modena 18, 1820]: 18 (29), 1818 (see Raddi 1818).
- Mesoptychia ussuriensis** (Bakalin) L.Söderstr. et Váňa, *Phytotaxa* 65: 55, 2012 (see Váňa *et al.* 2012e). BASIONYM: *Leiocolea ussuriensis* Bakalin, *Arctoa* 17: 103, 2008 (see Bakalin 2008).
- Metalejeunea crassitexta** (J.B.Jack et Steph.) Pócs, *Telopea* 13 (3): 456, 2011 (see Pócs *et al.* 2011). BASIONYM: *Microlejeunea crassitexta* J.B.Jack et Steph., *Bot. Centralbl.* 60 (4): 106, 1894 (see Jack & Stephani 1894).
- Metzgeria kinabaluensis** Masuzaki, *Hikobia* 16: 59, 2011 (see Masuzaki 2011). BASED ON: *Apometzgeria pubescens* var. *kinabaluensis* Kuwah., *J. Hattori Bot. Lab.* 28: 166, 1965, *nom. inval.* ICN Art. 35.1; genus not valid (see Kuwahara 1965).
- Microlejeunea bischlerae** (B.M.Thiers) B.M.Thiers, *Phytotaxa* 65: 59, 2012 (see Thiers *et al.* 2012). BASIONYM: *Lejeunea bischlerae* B.M.Thiers, *Cryptog. Bryol. Lichénol.* 18 (3): 223, 1997 (see Thiers 1997).
- Microlejeunea strasbergii** Bardat et Ah-Peng, *Bryologist* 114 (4): 669, 2011 (see Ah-Peng & Bardat 2011). TYPE: “RÉUNION, Commune de Saint-Benoit, GR du Piton des Neiges, epiphyllous on corticolous bryophytes, 29 March 2008, 21°05'17"S, 55°30'16"E, Ah-Peng, Bardat, Chuah-Petiot & Hedderson 1950P2Q2TC2, (holotype: REU; isotypes: PC)”.
- Microlejeunea udarii** P.K.Verma et S.C.Srivast., *J. Bombay Nat. Hist. Soc.* 108 (2): 122, 2011 [2012] (see Verma & Srivastava 2011). TYPE: “INDIA: Tamil Nadu: Nilgiri hills – Ootacamund, Pykara, 2,100 m, 29.iii.2001; Coll.: P.K. Verma and A. Alam, 13636 (Holotype LWU)”.
- Microlejeunea victoriensis** D.J.Carr, *Proc. Roy. Soc. Victoria* 117: 322, 2005 (see Carr 2005). “*Microlejeunia*” TYPE: “Holotype. D.J. Carr and S.G.M Carr, on the bark of trees (*Banksia serrata*) at Wilsons Promontory. Victoria. November 1954. Herb. Melb”.
- Nothoceros renzagliensis** J.C.Villarreal, L.V.Campos et Uribe, *Syst. Bot.* 37 (1): 32, 2012 (see Villarreal *et al.* 2012). TYPE: “COLOMBIA, Nariño: Pasto, La Divina Pastora, 2968 m., 19 April 2010, J. C. Villarreal *et al.* 1080 (holotype: COL)”.
- Otoscyphus** J.J.Engel, Bardat et Thouvenot, *Cryptog. Bryol.* 33 (3): 280, 2012 (see Engel *et al.* 2012). TYPE: *Otoscyphus crassicaulis* (Steph.) J.J.Engel, Bardat et Thouvenot.
- Otoscyphus crassicaulis** (Steph.) J.J.Engel, Bardat et Thouvenot, *Cryptog. Bryol.* 33 (3): 280, 2012 (see Engel *et al.* 2012). BASIONYM: *Lophocolea crassicaulis* Steph., *Sp. Hepat. (Stephani)* 6: 268, 1922 (see Stephani 1922).
- Plagiochasma udarii** A.Alam et S.C.Srivast., *Indian J. Forest.* 32: 631, 2009 (see Alam & Srivastava 2009). TYPE: “South India – Tamil Nadu – Palni Hills: Kodaikanal, ca. 900m, October 2000, S.C. Srivastava and Party, 13097/2000 (LWU)”.
- Plectocolea kurilensis** (Bakalin) Bakalin et Vilnet, *Bryologist* 115 (4): 577, 2012 (see Bakalin & Vilnet 2012). BASIONYM: *Plectocolea flagellata* var. *kurilensis* Bakalin, *Arctoa* 18: 90, 2009 (see Bakalin *et al.* 2009).
- Plectocolea ovalifolia** (Amakawa) Bakalin et Vilnet, *Bryologist* 115 (4): 579, 2012 (see Bakalin & Vilnet 2012). BASIONYM: *Plectocolea infusca* var. *ovalifolia* Amakawa, *J. Jap. Bot.* 34 (4): 115, 1959 (see Amakawa 1959).
- Pleurocladula affinis** (Lindb. ex Steph.) Konstant., Vilnet et A.V.Troitsky, *Arctoa* 21: 125, 2012 (see Vilnet *et al.* 2012). BASIONYM: *Cephalozia affinis* Lindb. ex Steph., *Bull. Herb. Boissier (sér. 2)* 8 (4): 277 (291), 1908 (see Stephani 1908b).
- Pleurocladula catenulata** (Huebener) Konstant., Vilnet et A.V.Troitsky, *Arctoa* 21: 125, 2012 (see Vilnet *et al.* 2012). BASIONYM: *Jungermannia catenulata* Huebener, *Hepaticol. Germ.*: 169, 1834 (see Hübener 1834).
- Pleurocladula connivens** (Dicks.) Konstant., Vilnet et A.V.Troitsky, *Arctoa* 21: 125, 2012 (see Vilnet *et al.* 2012). BASIONYM: *Jungermannia connivens* Dicks., *Fasc. Pl. Crypt. Brit.* 4: 19, 1801 (see Dickson 1801).
- Pleurocladula leucantha** (Spruce) Konstant., Vilnet et A.V.Troitsky, *Arctoa* 21: 125, 2012 (see Vilnet *et al.* 2012). BASIONYM: *Cephalozia leucantha* Spruce, *Cephalozia*: 68, 1882 (see Spruce 1882).
- Pleurocladula loitlesbergeri** (Schiffn.) Konstant., Vilnet et A.V.Troitsky, *Arctoa* 21: 125, 2012 (see Vilnet *et al.* 2012). BASIONYM: *Cephalozia loitlesbergeri* Schiffn., *Österr. Bot. Z.* 62 (1): 10, 1912 (see Schiffner 1912).
- Pleurocladula lunulifolia** (Dumort.) Konstant., Vilnet et A.V.Troitsky, *Arctoa* 21: 125, 2012 (see Vilnet *et al.* 2012). BASIONYM: *Jungermannia lunulifolia* Dumort., *Syll. Jungerm. Europ.*: 61, 1831 “*lunulaefolia*” (see Dumortier 1831).
- Pleurocladula macrostachya** (Kaal.) Konstant., Vilnet et A.V.Troitsky, *Arctoa* 21: 125, 2012 (see Vilnet *et al.* 2012). BASIONYM: *Cephalozia macrostachya* Kaal., *Rev. Bryol.* 29 (1): 8, 1902 (see Kaalaas 1902).
- Pleurocladula monticola** (J.D.Godfrey) Konstant., Vilnet et A.V.Troitsky, *Arctoa* 21: 125, 2012 (see Vilnet *et al.* 2012). BASIONYM: *Schofieldia monticola* J.D.Godfrey, *Bryologist* 79: 315, 1976 (see Godfrey 1976).

- Pleurocladula pachycaulis* (R.M.Schust.) Konstant., Vilnet et A.V.Troitsky, *Arctoa* 21: 125, 2012 (see Vilnet *et al.* 2012). BASIONYM: *Cephalozia pachycaulis* R.M.Schust., *Bryologist* 96 (4): 623, 1993 (see Schuster 1993).
- Pleurocladula pleniceps* (Austin) Konstant., Vilnet et A.V.Troitsky, *Arctoa* 21: 125, 2012 (see Vilnet *et al.* 2012). BASIONYM: *Jungermannia pleniceps* Austin, *Proc. Acad. Nat. Sci. Philadelphia* 21: 222, 1869 (see Austin 1869).
- Porella caespitans* var. *cordifolia* (Steph.) S.Hatt. ex T.Katag. et T.Yamag., *Bryol. Res.* 10 (5): 133, 2011 (see Katagiri & Yamaguchi 2011). BASIONYM: *Madotheca cordifolia* Steph., *Sp. Hepat. (Stephani)* 4: 315, 1910 (see Stephani 1910).
- Pseudomarsupidium borneensis* (Grolle) Váňa, L.Söderstr., A.Hagborg et von Konrat, *Phytotaxa* 65: 60, 2012 (see Váňa *et al.* 2012f). BASIONYM: *Adelanthus borneensis* Grolle, *J. Hattori Bot. Lab.* 35: 362, 1972 (see Grolle 1972a).
- Pycnolejeunea gradsteinii* Ilk.-Borg., *Bol. Inst. Bot. (São Paulo)* 21 (1): 1, 2011 (see Ilkiu-Borges 2011). TYPE: “BRAZIL. Para: Melgacão, Caxiuana National Forest, Ferreira Penna Research Station, Tijucaquara creek, terra firme forest, on living trunk, 9-I -1999, A.L Ilkiu-Borges & C.E. Zartman 1294 (holotypus, MG)”.
- Radula* subgen. *Amentuloradula* Devos, M.A.M.Renner, Gradst., A.J.Shaw et Vanderp., *Taxon* 60 (6): 1630, 2011 (see Devos *et al.* 2011). TYPE: *Radula formosa* (C.F.W.Meissn. ex Spreng.) Nees.
- Radula* subgen. *Dactyloradula* Devos, M.A.M.Renner, Gradst., A.J.Shaw et Vanderp., *Taxon* 60 (6): 1630, 2011 (see Devos *et al.* 2011). TYPE: *Radula brunnea* Steph.
- Radula* subgen. *Volutoradula* Devos, M.A.M.Renner, Gradst., A.J.Shaw et Vanderp., *Taxon* 60 (6): 1629, 2011 (see Devos *et al.* 2011). TYPE: *Radula voluta* Taylor ex Gottsche, Lindenb. et Nees.
- Rectolejeunea devendrae* Sushil K.Singh, *Indian J. Forest.* 34 (3): 341, 2011 (see Singh 2011). TYPE: “India, West Bengal, Howrah, Indian Botanic Garden, 03 Feb. 2006, S. K. Singh 40062 (holotype-CAL; isotype-ASSAM)”.
- Rectolejeunea truncatilobula* C.J.Bastos, *J. Bryol.* 34 (2): 144, 2012 (see Bastos 2012a). TYPE: “BRAZIL: Bahia, Eunápolis, Estação Veracruz, 16°22’S, 39°10’W, 10 June 1999, S.B. Vilas Bôas-Bastos & C. Bastos 475 (holotype ALCB; isotype SP)”.
- †*Riccardiothallus* C.Q.Guo, D.Edwards, P.C.Wu, Duckett, Hueber et C.S.Li, *Rev. Palaeobot. Palynol.* 176–177: 37, 2012 (see Guo *et al.* 2012). TYPE: *Riccardiothallus devonicus* C.Q.Guo, D.Edwards, P.C.Wu, Duckett, Hueber et C.S.Li.
- †*Riccardiothallus devonicus* C.Q.Guo, D.Edwards, P.C.Wu, Duckett, Hueber et C.S.Li, *Rev. Palaeobot. Palynol.* 176–177: 37, 2012 (see Guo *et al.* 2012). TYPE: “Holotype: Specimen CBYn9004008 (Plate I, 2). Repository: The specimen is deposited in the Museum of Plant History, Institute of Botany, Chinese Academy of Sciences. Type locality: Zhichang Village, Gumu Town, Wenshan District, Yunnan Province, China. Stratum and age: Posongchong Formation, Early Devonian (Pragian, 407–411 Ma)”.
- Riccia gangetica* Ahmad ex L.Söderstr., A.Hagborg et von Konrat, *Phytotaxa* 65: 57, 2012 (see Söderström *et al.* 2012c). BASED ON: *Riccia gangetica* Ahmad, *Curr. Sci.* 11: 433, 1942, *nom. inval.* ICN Art. 39.1; no Latin description (see Ahmad 1942).
- Riccia rhenana* var. *violacea* M.F.Boiko, *Chornom. Bot. J.* 7: 93, 2011 (see Bojko 2011). TYPE: “Ukraine. Dnipropetrovsk region; Dnipropetrovsk district, at village Obuchivka, at take Solone, on soil in lit sites close to water, 3 August 1961, coll. N.V.Gajevaja (Herbarium of the University in Krivoy Rog – Holotype)”. NOTE: This variety also creates the autonym.
- †*Ricciopsis ferganica* P.Moisan, S.Voigt, J.W.Schneid. et Kerp, *Rev. Palaeobot. Palynol.* 187: 33, 2012 (see Moisan *et al.* 2012). TYPE: “Holotype: FG 596/X/721 (Plate I, 1–4). Repository: Palaeontological collection of the Geologisches Institut, Technische Universität Bergakademie Freiberg, Germany. Locality: Vicinity of the village of Madygen, approximately 50 km west of Batken, southwest Kyrgyzstan, Central Asia (Fig. 1). Stratigraphic horizon: Madygen Formation. Age: Middle–Late Triassic (Ladinian–Carnian)”.
- Riella heliospora* Segarra, Puche et Sabovlj., *Syst. Bot.* 37 (2): 315, 2012 (see Segarra *et al.* 2012). TYPE: “U. S. A. California: Santa Clara Co., Palo Alto, Stanford University Campus, Lake Lagunita, 37°25’25.29”N, 122°10’36.01”W, cultivated from sediments collected from the locality on 30 Apr 2011 and dried 21 Sept 2011, J. G. Segarra-Moragues, M. Palop-Esteban, J. J. Palop-Esteban, and I. Cobos-Sillero, (holotype: 9.197 VAL-Brief.)”.
- Scapania* sect. *Americanae* Váňa, Hentschel, Joch.Müll. et Heinrichs, *PhytoKeys* 10: 15, 2012 (see Váňa *et al.* 2012a). TYPE: *Scapania americana* Müll.Frib. NOTE: Originally placed under subgen. *Scapania*.
- Scapania* subgen. *Gracilidae* (H.Buch) Váňa, Hentschel, Joch.Müll. et Heinrichs, *PhytoKeys* 10: 15, 2012 (see Váňa *et al.* 2012a). BASIONYM: *Scapania* sect. *Gracilidae* H.Buch, *Commentat. Biol.* 3 (1): 106, 1928 (see Buch 1928).

- Scapania sect. *Hyperboreae*** Váňa, Hentschel, Joch.Müll. et Heinrichs, *PhytoKeys* 10: 16, 2012 (see Váňa *et al.* 2012a). TYPE: *Scapania hyperborea* Jørg. NOTE: Originally placed under subgen. *Scapania*.
- Scapania subgen. *Pseudomacrodiphyllum*** Váňa, Hentschel, Joch.Müll. et Heinrichs, *PhytoKeys* 10: 15, 2012 (see Váňa *et al.* 2012a). TYPE: *Scapania microdonta* (Mitt.) Müll.Frib.
- Scapania sect. *Simmonsia*** (R.M.Schust.) Váňa, Hentschel, Joch.Müll. et Heinrichs, *PhytoKeys* 10: 16, 2012 (see Váňa *et al.* 2012a). BASIONYM: *Scapania* subsect. *Simmonsia* R.M.Schust., *Hepat. Anthocerotae N. Amer.* 3: 612, 1974 (see Schuster 1974). NOTE: Originally placed under subgen. *Scapania*.
- Scapania magadanica** S.S.Choi, Bakalin et B.Y.Sun, *Bot. Pacifica* 1: 46, 2012 (see Choi *et al.* 2012). TYPE: “Holotypus: Russia, Magadan Province, Magadan city area, Marchekanskaya Mt. (N59°30'49"E 150°49'51"E), 621 m alt. Shaded rocks in stony field near *Pinus pumila* crooked forest. Leg. 15 Aug. 2011 S.S. Choi and V. Bakalin R6581 (holotypus in JNU, isotypus in VLA)”.
- Schistochilopsis sect. *Heterogemma*** (Jørg.) Potemkin, *Novosti Sist. Nizš. Rast.* 38: 364, 2005 (see Potemkin 2005). BASIONYM: *Lophozia* sect. *Heterogemma* Jørg., *Bergens Mus. Skr., n.s.* 16: 146, 1934 (see Jørgensen 1934). NOTE: This section also creates the autonym.
- Schistochilopsis sect. *Incisae*** (C.E.O.Jensen) Potemkin, *Novosti Sist. Nizš. Rast.* 38: 364, 2005 (see Potemkin 2005). BASIONYM: *Jungermannia* sect. *Incisae* C.E.O.Jensen, *Danmarks Mosser:* 116, 1915 (see Jensen 1915).
- Schistochilopsis sect. *Obtusae*** (R.M.Schust.) Potemkin, *Novosti Sist. Nizš. Rast.* 38: 364, 2005 (see Potemkin 2005). BASIONYM: *Lophozia* sect. *Obtusae* R.M.Schust., *Hepat. Anthocerotae N. Amer.* 2: 425, 1969 (see Schuster 1969).
- Schistochilopsis incisa var. *opacifolia*** (Culm. ex Meyl.) Bakalin, *Bryologist* 114 (2): 313, 2011 (see Bakalin 2011). BASIONYM: *Lophozia opacifolia* Culm. ex Meyl., *Beitr. Kryptogamenfl. Schweiz* 6 (4): 174, 1924 (see Meylan 1924).
- **Schusterolejeunea andina** Gradst. et Ilk.-Borg. ex Gradst. et León-Yáñez, *Libro rojo pl. endém. Ecuador, ed. 2:* 871, 2011, *nom. inval.* ICN Art. 38.1(a); no description (see Gradstein & León-Yáñez 2011). ORIGINAL MATERIAL: Ecuador “Colectada en el Río Nangaritza, 28 km al sur de Guayzimi, cerca de las cabañas Yankuam”. NOTE: This name was erroneously used for what later was published as *Cololejeunea stotleriana* Gradst., Ilk.-Borg. et Vanderp. (S.R. Gradstein, pers. comm.).
- †**Sinolejeunea** X.J.Yang et X.W.Wu, *Sci. China Earth Sci.* 54: 229, 2011 (see Yang & Wu 2011). TYPE: *Sinolejeunea yimaensis* X.J.Yang et X.W.Wu.
- †**Sinolejeunea yimaensis** X.J.Yang et X.W.Wu, *Sci. China Earth Sci.* 54: 229, 2011 (see Yang & Wu 2011). TYPE: “Locality: Yima, Henan, China. Horizon: Yima Formation, Middle Jurassic. Repository: Nanjing Institute of Geology and Palaeontology, Chinese Academy of Sciences, Nanjing, China, numbers PB20733”.
- Solenostoma flagellatum var. *kurilense*** (Bakalin) Váňa, *Phytotaxa* 65: 44, 2012 (see Váňa *et al.* 2012c). BASIONYM: *Plectocolea flagellata* var. *kurilensis* Bakalin, *Arctoa* 18: 90, 2009 (see Bakalin *et al.* 2009). NOTE: This variety also creates the autonym.
- Solenostoma gracillimum f. *crenulatum*** (Mitt.) Bakalin, *Polish Bot. J.* 57 (1): 141, 2012 (see Bakalin 2012). BASIONYM: *Solenostoma crenulatum* Mitt., *J. Linn. Soc., Bot.* 8: 51, 1865 (see Mitten 1865). NOTE: Bakalin specified *Jungermannia crenulata* Sm., ICN Art. 53.1; hom. illeg. [non Schmidel 1760: 20] as basionym. The correct basionym as specified above is a nomen novum for *Jungermannia crenulata* Sm. (c.f. ICN Art. 58.1). We do not think that this makes the new taxon invalid.
- Solenostoma major** (S.Hatt.) Bakalin et Vilnet, *Bryologist* 115 (4): 574, 2012 (see Bakalin & Vilnet 2012). BASIONYM: *Jungermannia monticola* f. *major* S.Hatt., *J. Hattori Bot. Lab.* 3: 8, 1948 (see Hattori 1948a).
- Solenostoma montanum** (Steph.) Váňa, *Phytotaxa* 65: 44, 2012 (see Váňa *et al.* 2012c). BASIONYM: *Nardia montana* Steph., *Hedwigia* 28 (3): 164, 1889 (see Stephani 1889).
- Solenostoma ochotense** Bakalin et Vilnet, *Bryologist* 115 (4): 575, 2012, “*ochotensis*” (see Bakalin & Vilnet 2012). TYPE: “RUSSIA: KURILS ISLANDS, Paramushir Island, 50°13'50" N, 155°34'20" E, 43 m alt., wet scoria field, leg. V. Bakalin 02 Aug. 2008, K–115–4–04 (holotype: VBGI, isotype: KPABG)”.
- Solenostoma rossicum** Bakalin et Vilnet, *Bryologist* 115 (4): 571, 2012, “*rossica*” (see Bakalin & Vilnet 2012). TYPE: “RUSSIA: KHABAROVSK TERRITORY, Okhotsk District 59°27'31"N, 143°27'49"E, 153 m alt., clayish soil in roadside, with *Nardia japonica* Steph. Leg. V. Bakalin 26 July 2008, Kh–40–4–08 (holotype: VBGI; isotype: KPABG)”.
- Solenostoma tetragonum var. *kodaikanalense*** A.Alam, D.Sharma et So.Yadav, *Phytotaxonomy* 12: 70, 2012, “*kodaikanalensis*” (see Alam *et al.* 2012). TYPE: “Typus positus in LWU 20362/2008; *Solenostoma tetragonum* var. *kodaikanalensis*, Kodaikanal, south India (Western Ghats), December 28, 2008, legit. P.K. Verma & Afroz Alam”. NOTE: This variety also creates the autonym.

- Southbyaceae** Váňa, Crand.-Stotl., Stotler et D.G.Long (fam.), *Nova Hedwigia* 95: 184, 2012 (see Váňa *et al.* 2012b).
TYPE: *Southbya* Spruce. NOTE: This name has been used several times before, but was never validly published. See Grolle (1972b: 227) for a list of invalid occurrences.
- Sphenolobus ellipticus*** (Inoue) T.Katag. et Furuki, *Bryol. Res.* 10 (7): 206, 2012 (see Katagiri & Furuki 2012).
BASIONYM: *Anastrophyllum ellipticum* Inoue, *Bull. Natl. Sci. Mus. Tokyo, B* 4 (1): 13, 1978 (see Inoue 1978).
- Stolonivector fiordlandiae* var. *nodulosus*** J.J.Engel, *Nova Hedwigia* 93 (3–4): 403, 2011 (see Engel 2011). TYPE: “Holotype: New Zealand, North Is., Wellington prov., Tree Trunk Gorge, W bank of Tongariro River, E border of Tongariro Natl. Park, boundary of Kaimanawa State Forest Park, ca. 700 m, Engel 21190 (F); isotype (AK)”.
NOTE: This variety also creates the autonym.
- Taxilejeunea eckloniana*** (Lindenb.) A. Agarwal ex P.K.Verma et S.C.Srivast., *Proc. Natl. Acad. Sci. India, B* 77: 209, 2007 (see Verma & Srivastava 2007) BASIONYM: *Lejeunea eckloniana* Lindenb., *Syn. Hepat.* 3: 381, 1845 (see Gottsche *et al.* 1845).
- Taxilejeunea ghatensis*** P.K.Verma et S.C.Srivast., *Proc. Natl. Acad. Sci. India, B* 77 (2): 211, 2007 (see Verma & Srivastava 2007). TYPE: “India: South India - Maharashtra (Mahabaleshwar – on way to Chinaman waterfall); ca 1370 m; 13.09.2001; S.C.Srivastava *et al.* 14012 2001 (LWU)”.
- Taxilejeunea nilgiriensis*** P.K.Verma et S.C.Srivast., *Proc. Natl. Acad. Sci. India, B* 77 (2): 207, 2007 (see Verma & Srivastava 2007). TYPE: “Tamil Nadu: Nilgiri hills - Kilkotagiri (Kengarai); ca 1850–1900 m. 01.04.2003; P.K. Verma *et al.* Alam; 16916/2003 (LWU)”.
- Trichocolea japonica*** T.Katag., *Bryologist* 114 (4): 744, 2011 (see Katagiri *et al.* 2011). TYPE: “Japan. Honshu: Mt. Kaikoma, Southern Japanese Alps, between Kitazawa mountain pass and Sensui mountain pass, ca. 2000 m alt., on wet boulder, 12 June 2010, Katagiri 3198 (holotype: HIRO; isotypes: NY, TNS)”.
- Tylimanthus tenellus* var. *diversifolius*** (E.A.Hodgs.) J.J.Engel, *Nova Hedwigia* 93 (3–4): 403, 2011 (see Engel 2011).
BASIONYM: *Tylimanthus diversifolius* E.A.Hodgs., *Trans. & Proc. Roy. Soc. New Zealand* 85 (4): 575, 1958 (see Hodgson 1958). NOTE: This variety also creates the autonym.
- Vitalianthus guangxianus*** R.L.Zhu, Qiong He et Y.M.Weï, *J. Bryol.* 34 (1): 32, 2012 (see He *et al.* 2012b). TYPE: “China. Guangxi, Shangsi Co., Pinglongshan, 21°50'398"N, 107°52'345"E, on tree branches, mixed with *Brotherella* Loeske ex M.Fleish. sp., *Radula oyamensis* Steph., and *R. tjibodensis* K.I.Goebel, 513 m, 17 Feb. 2011, Yu-Mei Wei 20110217-24 (holotype: HSNU!)”.

Acknowledgements

Data were compiled and edited as part of the “Early Land Plants Today Project”. We thank support provided by GBIF (Award No. 2007/41) and the NSF funded project “Bringing Schuster, Standley and Co. Into the Third Millennium: The Field Museum’s 180K Bryophyte and Lichen Conversion & Digitization Project” (Award # 0749762). Funding from the Biodiversity Synthesis Center of the Encyclopedia of Life (EoL) has also greatly helped ELPT towards its overall goals and ambitions of growing into a community-wide effort. We also acknowledge the useful resources TROPICOS and the Recent Literature series of *The Bryologist* compiled by William R. Buck, Bruce Allen, and Ronald A. Pursell. We have also got help with references from Afroz Alam, Claudine Ah-Peng, Rob Gradstein, Jochen Heinrichs, Tomoyuki Katagiri, Nadya Konstantinova, Itambo Malombe, David Meagher, Tamás Pócs, Alexey Potemkin, Matt Renner, Alfons Schäfer-Verwimp, Sushil Singh, Louis Thouvenot, Jirí Váňa, Martin Wigginton, Li Zhang, and Rui-Liang Zhu. Finally, the authors gratefully acknowledge John J. Engel for access to his personal bryological library.

References

- Ahmad, S. (1942) Three new species of *Riccia* from India. *Current Science* 11: 433–434.
- Ah-Peng, C. & Bardat, J. (2011) *Microlejeunea strasbergii* sp. nov. (Lejeuneaceae) from Réunion Island (Mascarenes). *Bryologist* 114 (4): 668–673.
<http://dx.doi.org/10.1639/0007-2745-114.4.668>
- Alam, A., Sharma, D. & Yadav, S. (2012) *Solenostoma tetragonum* (Lindenb.) R. M. Schust. ex Váňa et D. G. Long var. *kodaikanalensis* var. nov. *Phytotaxonomy* 12: 68–71.
- Alam, A. & Srivastava, S.C. (2009) Current status of genus *Plagiochasma* in Nilgiri and Palni Hills with SEM details of spores. *Indian*

Journal of Forestry 32: 623–634.

- Amakawa, T. (1959) Notes on Japanese Hepaticae (9). *Journal of Japanese Botany* 34 (4): 111–116.
- Anonymous (1891) Verzeichniss der in diesem Bande erwähnten Pflanzen (Kryptogamen). *Hedwigia* 30: 5–18.
- Arnell, S.W. (1950) *Leiocolea arctica*, nov. spec. *Svensk Botanisk Tidskrift* 44 (2): 374–378.
- Arnell, S.W. & Mårtensson O (1959) A contribution to the knowledge of the bryophyte flora of W. Spitsbergen, and Kongsfjorden (King's Bay, 79°N.) in particular. *Arkiv för Botanik, n.s.* 4 (6): 105–164.
- Austin, C.F. (1869) Characters of some new Hepaticae (mostly North American) together with notes on a few imperfectly described species. *Proceedings of the Academy of Natural Sciences of Philadelphia* 21: 218–234.
<http://dx.doi.org/10.5962/bhl.title.40659>
- Austin, C.F. (1872) New Hepaticae. *Bulletin of the Torrey Botanical Club* 3: 9–18.
- Bakalin, V.A. (2008 [2009]) On taxonomy of some hepatics from Primorsky Territory (Russian Far East), with the list of taxa of the territory [O taksonomii nekotoryh pečenočnikov Primorskogo kraâ (Rossijskij Dal'nij Vostok) so spiskom taksonov, izvestnyh v krae]. *Arctoa* 17: 101–108.
- Bakalin, V.A. (2011) Notes on *Lophozia* VI. Taxonomy and distribution of *Lophozia* and *Schistochilopsis* (Lophoziaceae) in North America north of Mexico. *Bryologist* 114 (2): 298–315.
<http://dx.doi.org/10.1639/0007-2745.114.2.298>
- Bakalin, V.A. (2012) *Solenostoma fusiforme*: an addition to the North American liverwort flora and a review of the genus *Solenostoma* in North America. *Polish Botanical Journal* 57 (1): 137–143.
- Bakalin, V.A., Čerdanceva, V.Y., Ignatov, M.S., Ignatova, E.A. & Nûshko, T.I. (2009 [2010]) Bryophyte flora of the South Kuril Islands (East Asia). *Arctoa* 18: 69–114.
- Bakalin, V.A. & Vilnet, A.A. (2012) New combinations and new species of *Solenostoma* and *Plectocolea* (Solenostomataceae) from the Russian Far East. *Bryologist* 115 (4): 566–584.
<http://dx.doi.org/10.1639/0007-2745-115.4.566>
- Bastos, C.J. (2011) *Cheilolejeunea ornata* (Lejeuneaceae), a new species from Brazilian Atlantic Forest. *Journal of Bryology* 33 (1): 86–92.
<http://dx.doi.org/10.1179/1743282010y.0000000012>
- Bastos, C.J. (2012a) Nomenclatural notes on the genus *Rectolejeunea* A.Evans (Lejeuneaceae, Marchantiophyta). *Journal of Bryology* 34 (2): 144–145.
<http://dx.doi.org/10.1179/1743282011y.0000000032>
- Bastos, C.J. (2012b) Type studies on *Cheilolejeunea* (Spruce) Schiffn. (Lejeuneaceae): Brazilian species described by Stephani. *Journal of Bryology* 34 (4): 315–318.
<http://dx.doi.org/10.1179/1743282012y.0000000028>
- Bastos, C.J. (2012c) New combinations and synonyms in *Cheilolejeunea* (Spruce) Schiffn. (Lejeuneaceae, Marchantiophyta). *Journal of Bryology* 34 (4): 312–315.
<http://dx.doi.org/10.1179/1743282012y.0000000026>
- Bell, D., Long, D.G., Forrest, A.D., Hollingsworth, M.L., Blom, H.H. & Hollingsworth, P.M. (2012) DNA barcoding of European *Herbertus* (Marchantiopsida, Herbertaceae) and the discovery and description of a new species. *Molecular Ecology Resources* 12: 36–47.
<http://dx.doi.org/10.1111/j.1755-0998.2011.03053.x>
- Benedix, E.H. (1953) Indomalayische Cololejeunen. *Feddes Repertorium Specierum Novarum Regni Vegetabilis. Beiheft* 134: 1–88.
- Bernecker-Lücking, A. (1999) New species of Lejeuneaceae (Hepaticae) from Costa Rica. II. *Oryzolejeunea*. *Hausknechtia, Beiheft* 9: 37–40.
- Bischler, H. (1964) Le genre *Drepanolejeunea* Steph. en Amérique Centrale et Méridionale. *Revue Bryologique et Lichénologique* 33 (1–2): 15–179.
- Blackmore S., Gibby M. & Rae, D. (2011) Strengthening the scientific contribution of Botanic Gardens to the second phase of the Global Strategy for Plant Conservation. *Botanical Journal of the Linnean Society* 166: 267–281.
<http://dx.doi.org/10.1111/j.1095-8339.2011.01156.x>
- Bojko, M.F. (2011) *Syntrichia ruralis* var. *polysporogonica* and *Riccia rhenana* var. *violacea* – new infraspecific bryophyte taxa. *Chornomorski Botanical Journal* 7: 92–93.
- Brown, E.A., Söderström, L., Hagborg, A., von Konrat, M.J. (2012) Notes on Early Land Plants Today. 10. A new combination in *Acromastigum*. *Phytotaxa* 65: 58–58.
- Brummitt, R. & Powell, K. (1992) *Authors of plant names*. Royal Botanical Garden, Kew, London, 732 pp.
- Bryhn, N. (1906) Bryophyta in itinere polari norvagorum secundo collecta. *Report of the Second Norwegian Arctic Expedition in the "Fram" 1898–1902* 11: 1–260.
- Buch, H. (1928) Die Scapanien Nordeuropas und Sibiriens – Systematischer Teil. *Commentationes Biologicae. [Societas Scientiarum Fennica]* 3 (1): 1–177.

- Buch, H. (1942) Vorarbeiten zur eine Lebermoosflora Fenno-Scandias. VII. Über die verwandtschaftlichen Beziehungen zwischen den Arten der Gattungen *Sphenolobus* St. sens. lat. und *Lophozia* Dum. sens. lat. *Memoranda Societatis pro Fauna et Flora Fennica* 17: 283–290.
- Burrell, W.H. (1911) *Lophozia schultzii* (Nees) Schiffn. var. nov. *laxa*. *Journal of Botany, British and Foreign* 49: 217–219.
- Cargill, D.C., Söderström, L., Hagborg, A. & von Konrat, M.J. (2012) Notes on Early Land Plants Today. 3. *Fossombronia ruminata* Cargill, a new name for *Fossombronia maritima* G.A.M.Scott et D.C.Pike ex Cargill, nom. illeg. *Phytotaxa* 65: 45–45.
- Carr, D.J. (2004) Lejeuneaceae (Hepaticae) of Victoria; additions and a restitution. *Proceedings of the Royal Society of Victoria* 116 (2): 221–232.
- Carr, D.J. (2005) Two new bryophytes in Victoria. *Proceedings of the Royal Society of Victoria* 117: 319–325.
- Chavan, S.J. (2011) Studies on the Family Anthocerotaceae from Andaman Islands, India. *Bioinfolet – A Quarterly Journal of Life Science* 8 (3): 241–248.
- Choi, S.S., Bakalin, V.A. & Sun, B.-Y. (2012) *Scapania* and *Macrodiplrophyllum* in the Russian Far East. *Botanica Pacifica* 1: 31–95.
- Chuah-Petiot, M.S. (2011) A checklist of hepaticae and anthocerotae of Malaysia. *Polish Botanical Journal* 56 (1): 1–44.
- Crosby, M.R. & Engel, J.J. (2006) *Index of Hepatics 1974–2000*. Hattori Botanical Laboratory, Nichinan, 368 pp.
- Crosby, M.R. & Magill, R.E. (2005) *Index of bryophytes 2001–2004*. Missouri Botanical Garden, St. Louis, 31 pp.
- Crosby, M.R. & Magill, R.E. (2006) *Index of bryophytes 2005*. Missouri Botanical Garden, St. Louis, 12 pp.
- Crum, H.A. & Bruce, J. (1996) A new species of *Cryptothallus* from Costa Rica. *Bryologist* 99 (4): 433–438. <http://dx.doi.org/10.2307/3244107>
- Dauphin, G., Wunderlin, R.P., Essig, F.B. & Davison, P.G. (2011) A checklist of the liverworts (Marchantiophyta) and Hornworts (Anthocerotophyta) of Florida. *Journal of the Botanical Research Institute of Texas* 5: 773–814.
- Daniels, A.E.D., Long, D.G., Kariyappa, K.C. & Daniel, P. (2012) *Anastrophyllum aristatum* (Herzog ex N.Kitag.) A.E.D. Daniels *et al.*, comb. et stat. nov. (Marchantiophyta: Anastrophyllaceae) from India. *Journal of Bryology* 34: 146–149. <http://dx.doi.org/10.1179/1743282012y.0000000002>
- Devos, N., Renner, M.A.M., Gradstein, S.R., Shaw, A.J. & Vanderpoorten, A. (2011) Molecular data challenge traditional subgeneric divisions in the leafy liverwort *Radula*. *Taxon* 60 (6): 1623–1632.
- Dickson, J. (1801) *Fasciculus quartus Plantarum Cryptogamicarum Britanniae*. G. Nichol, London, 28 pp.
- Duda, J. (1970) *Lophozia* (subgenus *Leiocolea*) *mamatkulovii* Duda sp. nov. von Pamir (SSSR). *Transactions of the British Bryological Society* 6 (1): 82–85. <http://dx.doi.org/10.1179/006813870804146428>
- Dumortier, B.C.J. (1831) *Sylloge Jungermannidearum Europae indigenarum, earum genera et species systematice complectens*. J. Casterman, Tournay, 100 pp. <http://dx.doi.org/10.5962/bhl.title.22343>
- Engel, J.J. (1997 [1998]) Studies on Geocalycaceae (Hepaticae). X. New taxa and new combinations in *Chiloscyphus* Corda for Australasia. *Phytologia* 83: 42–46. <http://dx.doi.org/10.2307/3392110>
- Engel, J.J. (2011) Studies of New Zealand Hepaticae. 56–68. A miscellanea of new taxa and combinations. *Nova Hedwigia* 93 (3–4): 401–410. <http://dx.doi.org/10.1127/0029-5035/2011/0093-0401>
- Engel, J.J., Bardat, J. & Thouvenot, L. (2012) Studies on Lophocoleaceae. XXI. *Otoscyphus* J.J.Engel, Bardat et Thouvenot, a new liverwort genus from New Caledonia with an unusual morphology. *Cryptogamie, Bryologie* 33 (3): 279–289. <http://dx.doi.org/10.7872/cryb.v33.iss3.2012.279>
- Engel, J.J. & Glenny, D.S. (2011) Studies on Lophocoleaceae. XX. A new species of *Lamellocolea* J. J. Engel from New Zealand. *Bryologist* 114 (1): 23–27. <http://dx.doi.org/10.1639/0007-2745-114.1.23>
- Engel, J.J. & Glenny, D.S. (2012) Austral Hepaticae. 48. *Goebelobryum* Grolle (Acrobolbaceae). *Nova Hedwigia* 95 (3–4): 319–336. <http://dx.doi.org/10.1127/0029-5035/2012/0066>
- Engel, J.J. & Gradstein, S.R. (2003) Studies in Geocalycaceae XIV. *Physotheca* J. J. Engel & Gradst., a new genus of Hepaticae from Ecuador, belonging to a new subfamily, Geocalycaceae subfam. Physothecoideae J. J. Engel & Gradst. *Taxon* 52 (4): 763–773. <http://dx.doi.org/10.2307/3647350>
- Engel, J.J. & Schuster, R.M. (1984 [1985]) An overview and evaluation of the genera of Geocalycaceae subfamily Lophocoleoideae (Hepaticae). *Nova Hedwigia* 39: 385–463.
- Furuki, T. (1991) A taxonomical revision of the Aneuraceae (Hepaticae) of Japan. *Journal of the Hattori Botanical Laboratory* 70: 293–397.
- García, C., Sérgio, C., Villarreal Aguilar, J.C., Sim-Sim, M. & Lara, F. (2012) The hornworts *Dendroceros* Nees and *Megaceros* Campb.

- in São Tomé e Príncipe (Africa, Gulf of Guinea) with the description of *Dendroceros paivae* sp. nov. *Cryptogamie, Bryologie* 33 (1): 3–21.
<http://dx.doi.org/10.7872/cryb.v33.iss1.2012.003>
- Godfrey, J.D. (1976) *Schofieldia*, a new Hepaticae from the Pacific northwest. *Bryologist* 79: 314–320.
<http://dx.doi.org/10.2307/3242370>
- Goebel, K.I. (1888) Morphologische und biologische Studien. I. Ueber epiphytische Farne und Muscineen. *Annales du Jardin Botanique de Buitenzorg* 7: 1–73.
- Gola, G. (1916 [1914]) Le epatiche della regione del Kenia. *Memorie della reale accademia delle scienze di Torino, ser. 2* 65 (1): 1–11.
- Gottsche, C.M. (1882) Reliquiae Rutenbergianae. Lebermoose. *Abhandlungen Herausgegeben vom Naturwissenschaftlichen Vereins zu Bremen* 7: 338–365.
- Gottsche, C.M., Lindenberg, J.B.G. & Nees von Esenbeck, S.G. (1843) Hepaticae (in: Meyen, F.J.F., *Observationes botanicas in itinere circum terram institutas*). *Novorum Actorum Academiae Caesareae Leopoldino-Carolinae Naturae Curiosorum*, suppl. 19 (2): 469–477.
- Gottsche, C.M., Lindenberg, J.B.G. & Nees von Esenbeck, S.G. (1845) *Synopsis Hepaticarum, fasc. 3*. Meissner, Hamburg, pp. 305–464.
<http://dx.doi.org/10.5962/bhl.title.15221>
- Gottsche, C.M., Lindenberg, J.B.G. & Nees von Esenbeck, S.G. (1847) *Synopsis Hepaticarum, fasc. 5*. Meissner, Hamburg, pp. 625–834.
<http://dx.doi.org/10.5962/bhl.title.15221>
- Gradstein, S.R., Ilkiu-Borges, A.L. & Vanderpoorten, A. (2011) Habitat specialization triggers the evolution of unusual morphologies: the case of *Cololejeunea stotleriana* sp. nov. from Ecuador. *Bryologist* 114 (1): 9–22.
<http://dx.doi.org/10.1639/0007-2745-114.1.9>
- Gradstein, S.R. & León-Yáñez, S. (2011) Briofitas. In: León-Yáñez, S., Valencia, R., Pitman, N., Endara, L., Ulloa Ulloa, C. & Navarrete, H. (Eds), *Libro rojo de las plantas endémicas del Ecuador, ed. 2*. Publicaciones del Herbario QCA, Pontificia Universidad Católica del Ecuador: Quito, pp. 867–879.
- Gradstein, S.R. & Schäfer-Verwimp, A. (2011) A new species of *Harpalejeunea* (Spruce) Schiffn. (Lejeuneaceae) from montane cloud forest of Colombia and Costa Rica. *Cryptogamie, Bryologie* 32 (2): 101–106.
<http://dx.doi.org/10.7872/cryb.v32.iss1.2011.101>
- Gradstein, S.R. & Schäfer-Verwimp, A. (2012) A new species of *Archilejeunea* (Spruce) Schiffn. (Lejeuneaceae) from Ecuador. *Cryptogamie, Bryologie* 33 (2): 107–112.
<http://dx.doi.org/10.7872/cryb.v33.iss2.2012.107>
- Grolle, R. (1970a) Eine neue *Jackiella* aus Tasmanien. *Journal of the Hattori Botanical Laboratory* 33: 222–224.
- Grolle, R. (1970b) Die Namen der Familien und Unterfamilien der Lebermoose (Hepaticopsida). *Journal of Bryology* 7: 201–236.
<http://dx.doi.org/10.1179/jbr.1972.7.2.201>
- Grolle, R. (1972) Zur Kenntnis von *Adelanthus* Mitt. *Journal of the Hattori Botanical Laboratory* 35: 325–370.
- Grolle, R. (1982) Übersicht der Lejeuneaceae in Tasmanien. *Wissenschaftliche Zeitschrift der Friedrich-Schiller-Universität Jena/Thüringen. Mathematisch-naturwissenschaftliche Reihe* 31 (2): 207–227.
- Guo, C.-Q., Edwards, D., Wu, P.-C., Duckett, J.G., Hueber, F.M. & Li, C.-S. (2012) *Riccardiothallus devonicus* gen. et sp. nov., the earliest simple thalloid liverwort from the Lower Devonian of Yunnan, China. *Review of Palaeobotany and Palynology* 176–177: 35–40.
<http://dx.doi.org/10.1016/j.revpalbo.2012.03.012>
- Hartman, C.J. (1838) *Handbok i Skandinaviens Flora, innefattande Sveriges och Norrriges vexter, till och med mossorna. Sednare delen: floraen, ed. 3*. Zacharias Hæggströms förlag, Stockholm, 350 pp.
<http://dx.doi.org/10.5962/bhl.title.9746>
- Hasegawa, J. (1993) Taxonomic studies on Asian Anthocerotae V. A short revision of Taiwanese Anthocerotae. *Acta Phytotaxonomica et Geobotanica* 44 (2): 97–112.
- Hattori, S. (1948a [1950]) Contributio ad Floram Hepaticarum Yakusimensis, III. *Journal of the Hattori Botanical Laboratory* 3: 1–35.
- Hattori, S. (1948b [1950]) Hepaticarum species novae vel minus cognitae Nipponenses. VI. *Journal of the Hattori Botanical Laboratory* 3: 37–52.
- Hattori, S. (1956) Notula de Hepaticis Japonicis, 18. *Journal of Japanese Botany* 31 (7): 201–204.
- Hattori, S. (1976) Notes on Asiatic species of the genus *Frullania*, Hepaticae, X. *Journal of the Hattori Botanical Laboratory* 40: 461–507.
- Hattori, S. & Thaitong, O. (1978) Indian *Frullania* collection made by Prof. and Mrs. A. J. Sharp and Dr. Z. Iwatsuki. *Journal of the Hattori Botanical Laboratory* 44: 177–193.

- He, Q., Wei, Y.-M. & Zhu, R.-L. (2012b) *Vitalianthus guangxianus* R.L.Zhu, Q.He & Y.M.Wei (Lejeuneaceae), sp. nov. from Guangxi, China. *Journal of Bryology* 34 (1): 32–36.
<http://dx.doi.org/10.1179/1743282011y.0000000038>
- He, Q., Zhu, R.-L., Chantanaorrapint, S., Kornochalert, S. & Printarakul, N. (2012a) *Drepanolejeunea laciniata* (Lejeuneaceae), a new species from northern Thailand. *Cryptogamie, Bryologie* 33 (3): 291–298.
<http://dx.doi.org/10.7872/cryb.v33.iss3.2012.291>
- Heinrichs, J., Dong, S., Feldberg, K., Schäfer-Verwimp, A. & Schmidt, A.R. (2012b) *Sphaerolejeunea* (Lejeuneaceae, Porellales) is a synonym of *Lejeunea*. *Phytotaxa* 69: 7–15.
- Heinrichs, J., Dong, S., Yu, Y., Schäfer-Verwimp, A., Pócs, T., Feldberg, K., Hentschel, J., Schmidt, A.R. & Schneider, H. (2012a) A 150 year-old mystery solved: Transfer of the rheophytic endemic liverwort *Myriocolea irrorata* to *Colura*. *Phytotaxa* 66: 55–64.
- Heinrichs, J., Reiner-Drehwald, M.E., Feldberg, K., Grimaldi, D.A., Nascimbene, P.C., von Konrat, M.J. & Schmidt, A.R. (2011) *Kaolakia borealis* nov. gen. et sp. (Porellales, Jungermanniopsida): A leafy liverwort from the Cretaceous of Alaska. *Review of Palaeobotany and Palynology* 165 (3–4): 235–240.
<http://dx.doi.org/10.1016/j.revpalbo.2011.04.002>
- Heinrichs, J., Reiner-Drehwald, M.R., Feldberg, K., von Konrat, M., Hentschel, J., Váňa, J., Grimaldi, D.A., Nascimbene, P.C. & Schmidt, A.R. (2012) The leafy liverwort *Frullania* (Jungermanniopsida) in the Cretaceous amber forest of Myanmar. *Review of Palaeobotany and Palynology* 169: 21–28.
<http://dx.doi.org/10.1016/j.revpalbo.2011.10.002>
- Herzog, T. (1931) Hepaticae (in: Imscher E, Beiträge zur flora von Borneo). *Mitteilungen aus dem Institut für allgemeine Botanik in Hamburg* 7 (3): 182–216.
- Herzog, T. (1934) Studien über *Drepanolejeunea* II. *Annales Bryologici* 7: 57–94.
- Herzog, T. (1938) *Sphaerolejeunea*, eine neue Gattung der Lejeuneaceae Schizostipae. *Annales Bryologici* 11: 86–89.
- Herzog, T. (1942 [1943]) Lebermoose aus Sumatra. *Annalen des Naturhistorischen Museums in Wien* 53 (1): 358–373.
- Herzog, T. & Noguchi, A. (1955) Beitrag zur Kenntnis des Bryophytenflora von Formosa und den benachbarten Inseln Botel Tobago und Kwashyoto. *Journal of the Hattori Botanical Laboratory* 14: 29–70.
- Hodgetts, N.G. (2008) A morphological revision of the genus *Herbertus* S.Gray (Herbertaceae, Marchantiophyta) in Africa, including the East African islands. *Journal of Bryology* 30 (4): 239–263.
<http://dx.doi.org/10.1179/174328208x300714>
- Hodgson, E.A. (1941) Review of the New Zealand species of *Schistochila*, with notes on Colenso's species. *Transactions and Proceedings of the Royal Society of New Zealand* 71 (3): 181–194.
- Hodgson, E.A. (1952 [1953]) New Zealand Hepaticae (Liverworts) – VII. A review of the New Zealand species of the genus *Lophocolea* with notes on *Chiloscyphus*. *Transactions and Proceedings of the Royal Society of New Zealand* 80 (3–4): 329–358.
- Hodgson, E.A. (1958) New Zealand Hepaticae (Liverworts) – X. Marsupial genera of New Zealand. *Transactions and Proceedings of the Royal Society of New Zealand* 85 (4): 565–584.
- Hodgson, E.A. (1965) New Zealand Hepaticae (Liverworts) – XVI. A miscellany of new genera, new species and notes, Part I. *Transactions of the Royal Society of New Zealand. Botany* 3 (4): 67–97.
- Hooker, J.D. & Taylor, T. (1845) Hepaticae Antarcticae, supplementum; or specific characters, with brief descriptions. of some additional species of the Hepaticae of the Antarctic regions, New Zealand, and Tasmania, together with a few from the Atlantic Islands and New Holland. *London Journal of Botany* 4: 79–97.
- Hooker, W.J. (1813) *British Jungermanniae: being a history and description, with figures, of each species of the genus, and microscopical analysis of the parts, vol. 9–15*. Longmans, London, pp. 33–60.
- Horikawa, Y. (1934) Monographia Hepaticarum Australi-Japonicarum. *Journal of Science of the Hiroshima University: Series B, Division 2 (Botany)* 2: 101–325.
- Hübener, J.W.P. (1834) *Hepaticologia Germanica oder Beschreibung der deutschen Lebermoose*. Schwann and Götz, Mannheim, 314 pp.
- Ilkiu-Borges, A.L. (2011) On *Pycnolejeunea gradsteinii* (Lejeuneaceae), a new species from Brazil. *Boletim do Instituto de Botânica. São Paulo* 21 (1): 1–3.
- Inoue, H. (1961) An interesting new species of *Lophozia* from limestone districts of Chichibu-Okutama mountains. *Journal of Japanese Botany* 36 (2): 41–45.
- Inoue, H. (1978) *Anastrophyllum ellipticum* Inoue (sp. nov., Hepaticae) from Japan. *Bulletin of the National Science Museum, Tokyo. Series B, Botany* 4 (1): 13–17.
- Jack, J.B. & Stephani, F. (1894) Hepaticae in insulis Vitibuensibus et Samoanis a Dre Ed. Graeffe anno 1864 lectae. *Botanisches Centralblatt* 60 (4): 97–109.
- Jensen, C. (1915) *Danmarks Mosser. I. Hepaticales, Anthocerotales og Sphagnales*. Gyldendal, Copenhagen, 317 pp.

- Jørgensen, E. (1934) Norges Levermossor. *Bergens Museums Skrifter*, n.s. 16: 1–343.
- Jovet-Ast, S. (2003) *Riccia* des sous-genres *Riccia* et *Ricciella* récoltés en Indonésie et en Indonésie. *Cryptogamie, Bryologie* 24 (3): 209–228.
- Kaalaas, B. (1902) *Cephaloziae* species duae novae. *Revue Bryologique* 29 (1): 8–10.
- Katagiri, T. & Deguchi, H. (2012) Taxonomic studies of the Trichocoleaceae in southeast Asia I. The genus *Leiomitra* Lindb. *Bryologist* 115 (4): 475–492.
<http://dx.doi.org/10.1179/174328208x300714>
- Katagiri, T. & Furuki, T. (2012) [Checklist of Japanese liverworts and hornworts, 2012]. *Bryological Research* 10 (7): 193–210.
- Katagiri, T., Miyauchi, H. & Deguchi, H. (2011) *Trichocolea japonica* (Trichocoleaceae), a new species from Japan. *Bryologist* 114 (4): 744–748.
<http://dx.doi.org/10.1639/0007-2745-114.4.744>
- Katagiri, T., Suleiman, M. & Deguchi, H. (2012) Taxonomic studies of the Trichocoleaceae in southeast Asia II. A new species of *Eotrichocolea* from Malaysia. *Bryologist* 115 (4): 518–522.
<http://dx.doi.org/10.1639/0007-2745-115.4.518>
- Katagiri, T. & Yamaguchi, T. (2011) [Validation of *Porella caespitans* var. *cordifolia*]. *Bryological Research* 10 (5): 133–134.
- Kitagawa, N. (1970) Lophoziaceae of North Borneo. *Journal of the Hattori Botanical Laboratory* 33: 203–221.
- Konstantinova, N.A., Ignatov, M.S. & Perkovskij, E.E. (2012) Hepatics from Rovno amber (Ukraine). *Arctoa* 21: 265–271.
- Konstantinova, N.A. & Savchenko, A.N. (2012) Contribution to the hepatic flora of the Nordaustlandet (Svalbard). I. Hepatics of the north coast of Murchisonfjorden. *Polish Botanical Journal* 57 (1): 181–195.
- Konstantinova, N.A. & Vilnet, A.A. (2011) *Jubula hutchinsiae* subsp. *caucasica* subsp. nov. (Jubulaceae, Marchantiophyta) – a new taxon from the western Caucasus. *Arctoa* 20: 227–238.
- Kuwahara, Y. (1965) The Metzgeriaceae of Mt. Kinabalu, North Borneo. *Journal of the Hattori Botanical Laboratory* 28: 166–170.
- Lee, G.E., Pócs, T., Damanhuri, A. & Latiff, A. (2010 [2011]) *Lejeunea gradsteinii* (Lejeuneaceae), a new liverwort species from Mt. Kinabalu, Sabah. *Acta Biologica Plantarum Agriensis* 1: 29–36.
- Lehmann, J.G.C. (1844) *Novarum et minus cognitarum stirpium pugillus VIII addita enumeratione plantarum omnium in his pugillis descriptarum*. Meissner, Hamburg, 56 pp.
<http://dx.doi.org/10.5962/bhl.title.45011>
- Limpricht, K.G. (1884) Über einige neue Arten und Formen bei den Laub- und Lebermoosen. *Jahresbericht der Schlesischen Gesellschaft für Vaterländische Cultur* 61: 204–225.
- Lindenberg, J.B.W. (1829) Synopsis Hepaticarum Europaeorum. *Nova Acta Physico-Medica Academiae Caesareae Leopoldino-Carolinae Naturae Curiosorum* 14, suppl.: 1–133.
- Malombe, I., Fischer, E. & Pócs, T. (2010 [2011]) *Cheilolejeunea ulugurica* (Lejeuneaceae, Marchantiophyta), a new species from Tanzania. *Acta Biologica Plantarum Agriensis* 1: 23–28.
- Manju, C.N., Rajesh, K.P. & Madhusoodanan, P.V. (2011) *Chiloscyphus chinnarensis* (Lophocoleaceae: Marchantiophyta): A new species from the Western Ghats of India. *Acta Botanica Hungarica* 53 (1–2): 151–157.
<http://dx.doi.org/10.1556/abot.53.2011.1-2.14>
- Masuzaki, H. (2011) A nomenclatural change for *Metzgeria kinabaluensis* (Metzgeriaceae, Marchantiophyta). *Hikobia* 16: 59–60.
- McCarthy, P.M. (2003) Catalogue of Australian liverworts and hornworts. *Flora of Australia Supplementary Series* 21: 1–137.
- McNeill, J., Barrie, F.R., Buck, W.R., Demoulin, V., Greuter, W., Hawksworth, D.L., Herendeen, P.S., Knapp, S., Marhold, K., Prado, J., Prud'homme van Reine, W.F., Smith, G.F., Wiersema, J.H. & Turland, N.J. (2012) International Code of Nomenclature for algae, fungi and plants (Melbourne Code) adopted by the Eighteenth International Botanical Congress Melbourne, Australia, July 2011. *Regnum Vegetabile* 154: 1–240.
- Meagher, D. (2011) Studies on *Bazzania* (Lepidoziaceae, Marchantiophyta) 3. Four new species from Australia. *Nova Hedwigia* 92 (3–4): 487–495.
<http://dx.doi.org/10.1127/0029-5035/2011/0092-0487>
- Meissner, C.F. (1848) Hepaticae Javanicae a Zollingeri collectae. *Botanische Zeitung. Berlin* 6 (25): 462–463.
- Meylan, C. (1924) Les Hépatiques de la Suisse. *Beiträge zur Kryptogamenflora der Schweiz* 6 (4): 1–318.
- Mitten, W. (1865) The “Bryologia” of the survey of the 48th parallel of latitude. *Journal of the Linnean Society. Botany* 8: 12–55.
- Mizutani, M. (1970) Lejeuneaceae, subfamilies Lejeuneoideae and Cololejeuneoideae, from Sabah (north Borneo). *Journal of the Hattori Botanical Laboratory* 33: 225–265.
- Moisan, P., Voigt, S., Schneider, J.W. & Kerp, H. (2012) New fossil bryophytes from the Triassic Madygen Lagerstätte (SW Kyrgyzstan). *Review of Palaeobotany and Palynology* 187: 29–37.
<http://dx.doi.org/10.1016/j.revpalbo.2012.08.009>
- Ochyra, R. (2011) Validation of Leiosporocerotaceae (Anthocerotophyta). *Polish Botanical Journal* 56: 115–116.
- Paton, A.J., Brummitt, N., Govaerts, R., Harman, K., Hinchcliff, S., Allkin, B. & Lughadha, N. (2008) Towards Target 1 of the Global Strategy for Plant Conservation: a working list of all known plant species—progress and prospects. *Taxon* 57: 602–611.

- Paton, A.J. & Lughadha, E. (2011) The irresistible target meets the unachievable objective: what have eight years of GSPC implementation taught us about target-setting and achievable objectives? *Journal of the Linnean Society. Botany* 166: 250–260.
<http://dx.doi.org/10.1111/j.1095-8339.2011.01155.x>
- Paton, J.A. & Perry, A.R. (1995) *Leiocolea fitzgeraldiae* sp. nov. in Britain and Ireland. *Journal of Bryology* 18 (3): 469–478.
- Pócs, T. (2010a [2011]) *Bazzania orbanii* (Lepidoziaceae), a new species from Madagascar. East African bryophytes, XXVIII. *Acta Biologica Plantarum Agriensis* 1: 15–22.
- Pócs, T. (2010b [2011]) What is *Cladolejeunea* Zwickel? New or little known epiphyllous liverworts. XV. *Acta Biologica Plantarum Agriensis* 1: 53–62.
- Pócs, T. (2011a) East African Bryophytes XXIX. The *Ceratolejeunea* (Lejeuneaceae) species of the Indian Ocean Islands. *Polish Botanical Journal* 56 (2): 131–153.
- Pócs, T. (2011b) New or little known epiphyllous liverworts. XIV. The genus *Colura* (Lejeuneaceae) in São Tomé Island, with the description of *Colura thomeensis* sp. nov. *Bryologist* 114 (2): 362–366.
<http://dx.doi.org/10.1639/0007-2745-114.2.362>
- Pócs, T. (2012a) Bryophytes from the Fiji Islands, VI. The genus *Cololejeunea* Raddi (Jungermanniopsida) with description of seven new species. *Acta Botanica Hungarica* 54 (1–2): 145–188.
<http://dx.doi.org/10.1556/abot.54.2012.1-2.16>
- Pócs, T. (2012b) Notes on the representatives of genus *Kurzia* G. Martens (Lepidoziaceae, Jungermanniopsida) in the Colombian Andes. *Acta Biologica Plantarum Agriensis* 2: 101–113.
- Pócs, T. & Schäfer-Verwimp, A. (2012) *Cololejeunea kuciana* (Lejeuneaceae, Marchantiophyta), another new species from southern Ecuador. *Polish Botanical Journal* 57 (1): 51–53.
- Pócs, T. & Piippo, S. (2011) Bryophyte flora of the Huon Peninsula, Papua New Guinea. LXXIV. *Cololejeunea* (Lejeuneaceae, Hepaticae). *Acta Bryolichenologica Asiatica* 4: 59–137.
- Pócs, T., Sass-Gyarmati, A., Naikatini, A., Tuiwawa, M., Braggins, J., Pócs, S. & von Konrat, M. (2011) New liverwort (Marchantiophyta) records for the Fiji Islands. *Telopea* 13 (3): 455–494.
- Potemkin AD (2005) O sistematičeskom položení i taksonomičeskom statusu rodov *Schistochilopsis* (Kitag.) Konstantinova i *Obtusifolium* S.W.Arnell (Lophoziaaceae, Hepaticae) [On the systematic position and taxonomic status of the genera *Schistochilopsis* (Kitag.) Konstantinova and *Obtusifolium* S.W.Arnell (Lophoziaaceae, Hepaticae)]. *Novosti Sistematiki Nizših Rastenij* 38: 362–365.
- Rabenhorst, G.L. (1859) *Hepaticae Europaeae. Die Lebermoose Europa's unter Mitwirkung Mehrerer Namhafter Botaniker, Decades 9–10*. Dresden, pp. 81–100.
- Raddi, G. (1818) *Jungermanniografia Etrusca*. Modena, 45 pp.
- Reiner-Drehwald, M.E. (2011) Studies on neotropical Lejeuneaceae (Jungermanniopsida). New synonyms and *Ceratolejeunea temnantha* (Spruce) comb. nov. *Cryptogamie, Bryologie* 32 (2): 95–100.
<http://dx.doi.org/10.7872/cryb.v32.iss1.2011.095>
- Reiner-Drehwald, M.E. & Grolle, R. (2012) Review of the genus *Rectolejeunea* (Lejeuneaceae, Marchantiophyta). *Nova Hedwigia* 95 (3–4): 451–482.
<http://dx.doi.org/10.1127/0029-5035/2012/0063>
- Renner, M.A.M. (2012) Further insight into lobule teeth homology in Lejeuneaceae subf. Lejeuneoideae from *Cheilolejeunea oscilla*, a new species from Australia. *Bryologist* 115 (4): 536–556.
<http://dx.doi.org/10.1639/0007-2745-115.4.536>
- Renner, M.A.M. & de Lange, P.J. (2011) Additions to the Lejeuneaceae flora of New Zealand: new species from the Kermadec Islands and range extensions of New Zealand species into the South Pacific. *New Zealand Journal of Botany* 49 (3): 421–433.
<http://dx.doi.org/10.1080/0028825x.2011.580765>
- Rubasinghe, S.C.K., Long, D.G. & Milne, R. (2011) A new combination and three new synonyms in the genus *Clevea* Lindb. (Marchantiopsida, Cleveaceae). *Journal of Bryology* 33 (2): 166–168.
<http://dx.doi.org/10.1179/1743282011y.0000000005>
- Schäfer-Verwimp, A. (2012) *Cololejeunea tamasii* (Lejeuneaceae, Marchantiophyta), a new species from Panama. *Phytotaxa* 60: 9–12.
- Schäfer-Verwimp, A., Fernandes Peralta, D. & Costa Siqueira, S.M. (2012) *Frullania curvilobula* (Frullaniaceae, Marchantiophyta), a new species from Brazil. *Phytotaxa* 57 (1): 27–30.
- Schiffner, V. (1889 [1890]) Lebermoose (Hepaticae), mit Zugrundelegung der von Dr. A. C. M. Gottsche ausgeführten Vorarbeiten. In: Engler, A. (ed.), *Die Forschungsreise S. M. S. "Gazelle" in der Jahren 1874 bis 1877 unter Kommando des Kapitäns zur See Freiherrn von Schleinitz, Vol. IV Theil Botanik 4*. Ernst Siegfried Mittler und Sohn, Berlin, pp. 1–45.
- Schiffner, V. (1900 [1901]) Expositio plantarum in itinere Suo Indico annis 1893/94 suspecto collectarum, II. *Akademie der Wissenschaften in Wien. Mathematisch-Naturwissenschaftliche Klasse, Denkschriften* 70: 155–218.

- Schiffner, V. (1912) Bryologische Fragmente LXVI–LXXI. *Österreichische Botanische Zeitschrift* 62 (1): 8–15.
<http://dx.doi.org/10.1007/bf01644055>
- Schiffner, V. & Arnell, S. (1964) Ergebnisse der Botanischen Expedition der kaiserlichen Akademie der Wissenschaften nach Südbrasilien 1901. II. Thallophyta und Bryophyta. Hepaticae (Lebermoose). *Österreichische Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Klasse, Denkschriften* 111: 1–156.
- Schmidel, C.C. (1760) *Dissertatio inauguralis botanica de Jungermanniae caractere*. Tezschnerianis, Erlangae [Erlangen], 29 pp.
<http://dx.doi.org/10.5962/bhl.title.69133>
- Schuster, R.M. (1963) Studies on antipodal Hepaticae I. Annotated key to the genera of antipodal Hepaticae with special reference to New Zealand and Tasmania. *Journal of the Hattori Botanical Laboratory* 26: 185–309.
- Schuster, R.M. (1969) *The Hepaticae and Anthocerotae of North America. vol. II*. Columbia University Press, New York, 1062 pp.
- Schuster, R.M. (1970) Studies on Antipodal Hepaticae, III. *Jubulopsis* Schuster, *Neohattoria* Kamimura and *Amphijubula* Schuster. *Journal of the Hattori Botanical Laboratory* 33: 266–304.
- Schuster, R.M. (1971) Studies of Antipodal Schistochilaceae and Scapaniaceae. *Bulletin of the National Science Museum, Tokyo, n.s.* 14 (4): 609–660.
- Schuster, R.M. (1974) *The Hepaticae and Anthocerotae of North America. vol. III*. Columbia University Press, New York, 880 pp.
- Schuster, R.M. (1978a) Studies on Venezuelan Hepaticae. I. *Phytologia* 39 (4): 239–251.
- Schuster, R.M. (1978b) Studies on Venezuelan Hepaticae. II. *Phytologia* 39 (6): 425–432.
- Schuster, R.M. (1980) *The Hepaticae and Anthocerotae of North America. IV*. Columbia University Press, New York, 1334 pp.
- Schuster, R.M. (1993) On *Cephalozia pachycaulis* sp. nov. and the perimeters of *Cephalozia*. *Bryologist* 96 (4): 619–625.
<http://dx.doi.org/10.2307/3243994>
- Schuster, R.M. (2000) Studies on Lejeuneaceae, III. Revisionary studies on *Stenolejeunea* Schust. *Journal of the Hattori Botanical Laboratory* 89: 151–170.
- Schuster, R.M. (2002) Austral Hepaticae, part II. *Beihefte zur Nova Hedwigia* 119: 1–606.
- Schuster, R.M. & Engel, J.J. (1985) Austral Hepaticae V(2). Temperate and subantarctic Schistochilaceae of Australasia. *Journal of the Hattori Botanical Laboratory* 58: 255–539.
- Segarra Moragues, J.G., Puche, F. & Sabovljević, M. (2012) *Riella heliospora* (Riellaceae) a New Monoecious Species of *Riella* Subgenus *Trabutiella* from California. *Systematic Botany* 37 (2): 307–319.
<http://dx.doi.org/10.1600/036364412x635368>
- Silva Brito, E. & Ilkiu-Borges, A.L. (2012) A new species of *Ceratolejeunea* Jack & Steph. (Lejeuneaceae, Jungermanniopsida) from a remnant of Amazonian forest in Maranhão, Brazil. *Nova Hedwigia* 95 (3–4): 423–428.
<http://dx.doi.org/10.1127/0029-5035/2012/0061>
- Silva de Moura, O., Ilkiu-Borges, A.L. & Reiner-Drehwald, M.E. (2012) A new species of *Lejeunea* Lib. (Lejeuneaceae) from Low Várzea forest in lower Amazon (Pará, Brazil). *Nova Hedwigia* 95 (1–2): 197–202.
<http://dx.doi.org/10.1127/0029-5035/2012/0033>
- Singh, D. & Singh, D.K. (2012) A new species of the genus *Lepidozia* (Marchantiophyta, Lepidoziaceae) from Sikkim, India. *Nova Hedwigia* 94 (1–2): 221–225.
<http://dx.doi.org/10.1127/0029-5035/2012/0094-0221>
- Singh, S.K. (2011) A new *Rectolejeunea* from Indian botanic garden, India. *Indian Journal of Forestry* 34 (3): 341–344.
- Singh, S.K. & Barbhuiya, H.A. (2012) Contribution to the Hepaticae and Anthocerotae of Mizoram V. Three New Taxa of *Frullania* from India. *Taiwania* 57 (2): 106–116.
- Singh, S.K. & Singh, D.K. (2005) *Frullania larjiana* (Jungermanniopsida: Frullaniaceae), a new species from India. *Journal of Bryology* 27 (2): 105–108.
<http://dx.doi.org/10.1179/037366805x53004>
- Smith, J.E. & Sowerby, J. (1811) *English Botany, vol. 32*. J. Davis, London, pp. 2233–2304.
- Söderström, L., Hagborg, A., Pócs, T., Sass-Gyarmati, A., Brown, E., von Konrat, M.J. & Renner, M.A.M. (2011) Checklist of hornworts and liverworts of Fiji. *Telopea* 13 (3): 405–454.
- Söderström, L., Hagborg, A. & von Konrat, M.J. (2012a) Notes on Early Land Plants Today. 1. A new name for *Cryptothallus hirsutus*. *Phytotaxa* 65: 43–43.
- Söderström, L., Hagborg, A. & von Konrat, M.J. (2012b) Notes on Early Land Plants Today. 5. Validation of two *Drepanolejeunea* species. *Phytotaxa* 65: 47–48.
- Söderström, L., Hagborg, A. & von Konrat, M.J. (2012c) Notes on Early Land Plants Today. 9. Validation of *Riccia gangetica* Ahmad. *Phytotaxa* 65: 57–57.
- Söderström, L., Hagborg, A., Crosby, M. & von Konrat, M.J. (2012d) Early Land Plants Today: Index of Liverworts & Hornworts 2009–2010. *Phytotaxa* 63: 21–68.

- Spruce, R. (1882) *On Cephalozia, its subgenera and some allied genera*. Slater, Malton, 99 pp.
<http://dx.doi.org/10.5962/bhl.title.46289>
- Spruce, R. (1884) Hepaticae Amazonica et Andinae quas in itinere suo per tractus montium et fluviorum Americae Æquinoctialis a fluminis Amazonum ostiis ad maris Pacifici litora usque, necnon a cataractis fluminis Orinoci, cis æquatorem, adusque fluvii Huallaga cataractas, Lat. 6°–7° australi, annis 1849–1862. *Transactions and Proceedings of the Botanical Society of Edinburgh* 15: 1–308.
- Srivastava, S.N. & Rai, M. (2011) *Frullania largiana* var. *didyhatii* var. nov. from Kumaun region in Western Himalaya. *Geophytology* 41: 109–112.
- Steenbock, C.M., Stockey, R.A., Beard, G. & Tomescu, A.M.F. (2011) A new family of leafy liverworts from the middle Eocene of Vancouver Island, British Columbia, Canada. *American Journal of Botany* 98 (6): 998–1006.
<http://dx.doi.org/10.3732/ajb.1000396>
- Steere, W.C. & Inoue, H. (1978) The Hepaticae of arctic Alaska. *Journal of the Hattori Botanical Laboratory* 44: 251–345.
- Ștefănuț, S. (2008) *The hornwort and liverwort atlas of Romania*. Ars Docendi, Bucharest, 510 pp.
- Stephani, F. (1889) Hepaticae Australiae 2. *Hedwigia* 28 (3): 155–175.
- Stephani, F. (1895a) Hepaticarum species novae VII. *Hedwigia* 34 (2): 43–65.
- Stephani, F. (1895b) Hepaticarum species novae VIII. *Hedwigia* 34 (5): 232–253.
- Stephani, F. (1896) Hepaticarum species novae IX. *Hedwigia* 35 (3): 73–140.
- Stephani, F. (1902) Hepaticae (in: Schmidt J.: Flora of Koh Chang V). *Botanisk Tidsskrift* 24 (3): 277–280.
- Stephani, F. (1905) Hepaticae species novae XI. *Hedwigia* 44 (2): 72–75.
- Stephani, F. (1906) Species Hepaticarum 3. *Bulletin de l'Herbier Boissier (sér. 2)* 6 (11): 935–966.
- Stephani, F. (1908a [1907]) Species Hepaticarum 3. *Bulletin de l'Herbier Boissier (sér. 2)* 8 (1): 49–64.
- Stephani, F. (1908b) Species Hepaticarum 3. *Bulletin de l'Herbier Boissier (sér. 2)* 8 (4): 267–282.
- Stephani, F. (1910) *Species Hepaticarum* 4. George & Cie, Genève & Bale, pp. 97–448.
- Stephani, F. (1913) *Species Hepaticarum* 5. George & Cie, Genève & Bale, pp. 177–448.
- Stephani, F. (1914) *Species Hepaticarum* 5. George & Cie, Genève & Bale, pp. 449–704.
- Stephani, F. (1922) *Species Hepaticarum* 6. George & Cie, Genève & Bale, pp. 241–368.
- Stephani, F. (1923) *Species Hepaticarum* 6. George & Cie, Genève & Bale, pp. 369–432.
- Stephani, F. & Watts, W.W. (1914) Hepaticae australes. *Journal and Proceedings of the Royal Society of New South Wales* 48 (1/2): 94–135.
- Thiers, B.M. (1997) *Lejeunea bischlerae*, a new species of *Lejeunea* subgenus *Microlejeunea* from Australia. *Cryptogamie: Bryologie, Lichénologie* 18 (3): 223–226.
- Thiers, B.M., Söderström, L., Hagborg, A. & von Konrat, M.J. (2012) Notes on Early Land Plants Today. 11. *Microlejeunea bischlerae* (B.M.Thiers) comb. nov. *Phytotaxa* 65: 59–59.
- Thouvenot, L., Gradstein, S.R., Hagborg, A., Söderström, L. & Bardat, J. (2011) Checklist of New Caledonia. *Cryptogamie, Bryologie* 32 (4): 287–390.
<http://dx.doi.org/10.7872/cryb.v32.iss4.2011.287>
- Tixier, P. (1982) Une nouvelle espèce pour le genre *Jovetastella*: *J. aurantia*. *Cryptogamie: Bryologie, Lichénologie* 3 (1): 29–31.
- Váňa, J. (1970) Eine neue Lebermoosart aus Neukaledonien. *Österreichische Botanische Zeitschrift* 118 (3): 233–236.
<http://dx.doi.org/10.1007/bf01377860>
- Váňa, J., Hentschel, J., Müller, J. & Heinrichs, J. (2012a) Taxonomic novelties in *Scapania*. *PhytoKeys* 10: 13–17.
<http://dx.doi.org/10.3897/phytokeys.10.2654>
- Váňa, J., Grolle, R. & Long, D.G. (2012b) Taxonomic realignments and new records of *Gongylanthus* and *Southbya* (Marchantiophyta: Southbyaceae) from the Sino-Himalayan region. *Nova Hedwigia* 95: 183–196.
<http://dx.doi.org/10.1127/0029-5035/2012/0042>
- Váňa, J., Söderström, L., Hagborg, A. & von Konrat, M.J. (2012c) Notes on Early Land Plants Today. 2. Two new combinations in *Solenostoma*. *Phytotaxa* 65: 44–44.
- Váňa, J., Söderström, L., Hagborg, A. & von Konrat, M.J. (2012d) Notes on Early Land Plants Today. 4. *Aponardia* gen. et stat. nov. *Phytotaxa* 65: 46–46.
- Váňa, J., Söderström, L., Hagborg, A. & von Konrat, M.J. (2012e) Notes on Early Land Plants Today. 8. New combinations and some lectotypifications in *Mesoptychia*. *Phytotaxa* 65: 52–56.
- Váňa, J., Söderström, L., Hagborg, A. & von Konrat, M.J. (2012f) Notes on Early Land Plants Today. 12. *Pseudomarsupidium borneensis* (Grolle) comb. nov. *Phytotaxa* 65: 60–60.
- Vanderpoorten, A., Désamoré, A., Laenen, B. & Gradstein, S.R. (2012) Striking autapomorphic evolution in *Physotheca* J.J.Engel & Gradst. (Marchantiophyta: Lophocoleaceae) blurred its actual relationships with *Leptoscyphus* Mitt. *Journal of Bryology* 34 (4): 251–256.

<http://dx.doi.org/10.1179/1743282012y.0000000018>

- Verdoorn, F. (1928 [1929]) V Schiffner, Expositio plantarum in itinere suo indico annis 1893-94 suscepto collectorum speciminibusque exsiccatis distributarum, adjectis descriptionibus novarum. Series tertia (no. 1473–2460). Frullaniaceas continens (De Frullaniaceis IV). *Annales Bryologici* 2: 117–154.
- Verma, P.K. & Srivastava, S.C. (2007) Diversity of genus *Taxilejeunea* (Spr.) Schiffn. in Western Ghats (India). *Proceedings of the National Academy of Sciences of India. Section B, Biological Sciences* 77: 206–214.
- Verma, P.K. & Srivastava, S.C. (2011 [2012]) Species diversity of genus *Microlejeunea* Steph. (Lejeuneaceae, Hepaticae) in Nilgiri Hills, Western Ghats, Tamil Nadu, India. *Journal of the Bombay Natural History Society* 108 (2): 120–125.
- Villarreal Aguilar, J.C., Campos Salazar, L.V., Uribe Meléndez, J. & Goffinet, B. (2012) Parallel evolution of endospory within hornworts: *Nothoceros renzagliensis* (Dendrocerotaceae), sp. nov. *Systematic Botany* 37 (1): 31–37.
<http://dx.doi.org/10.1600/036364412x616594>
- Vilnet, A.A., Konstantinova, N.A. & Troitsky, A.V. (2011) Taxonomical rearrangements of Solenostomataceae (Marchantiophyta) with description of a new family Endogemmataceae based on trnL-F cpDNA analysis. *Folia Cryptogamica Estonica* 48: 125–133.
- Vilnet, A.A., Konstantinova, N.A. & Troitsky, A.V. (2012) Molecular phylogeny and systematics of the suborder Cephaloziineae with special attention to the family Cephaloziaceae s.l. (Jungermanniales, Marchantiophyta). *Arctoa* 21: 113–132.
- von Konrat, M.J., Söderström, L. & Hagborg, A. (2010a) The Early Land Plants Today project: A community-driven effort and a new partnership with Phytotaxa. *Phytotaxa* 9: 11–21.
- von Konrat, M.J., Söderström, L., Hagborg, A., Crosby, M.R. & Engel, J.J. (2010b) Early Land Plants Today: Index of liverworts & hornworts 2006–2008. *Cryptogamie, Bryologie* 31: 3–30.
- von Konrat, M.J., Hentschel, J., Heinrichs, J. & Braggins, J.E. (2011) Deep southern hemisphere connections: A revision of *Frullania* sect. *Amphijubula*. *Bryologist* 114 (1): 52–66.
<http://dx.doi.org/10.1639/0007-2745-114.1.52>
- von Konrat, M.J., de Lange, P., Greif, M., Strozier, L., Hentschel, J. & Heinrichs, J. (2012a) *Frullania knightbridgei*, a new liverwort (Frullaniaceae, Marchantiophyta) species from the deep south of Aotearoa-New Zealand based on an integrated evidence-based approach. *PhytoKeys* 8: 13–36.
<http://dx.doi.org/10.3897/phytokeys.8.2496>
- von Konrat, M.J., Söderström, L. & Hagborg, A. (2012b) Notes on Early Land Plants Today. 7. Transfer of *Jubulopsis novae-zelandiae* to *Lepidolaena*. *Phytotaxa* 65: 51–51.
- von Martius, C.F.P. (1817) *Flora Cryptogamica Erlangensis*. J.L.Schrag, Norinbergae, 508 pp.
- Wang, J., Lai, M.-J. & Zhu, R.-L. (2011) Liverworts and hornworts of Taiwan: an updated checklist and floristic accounts. *Annales Botanici Fennici* 48 (5): 369–395.
<http://dx.doi.org/10.5735/085.048.0501>
- Wei, Y.-M. & Zhu, R.-L. (2011) Taxonomic and molecular phylogenetic studies in *Lejeunea* (Lejeuneaceae) in China. In: 2011 National Symposium on Bryophytes: Abstracts. Botanical Society of China, Xinjiang, China. pp. 26–27.
- Wigginton, M.J. (2012a) Bryophytes of St Helena, south Atlantic Ocean. 6. *Cheilolejeunea* (Spruce) Schiffn. (Jungermanniales: Lejeuneaceae), including *C. microscypha* (Hook.f. & Taylor) M. Wigginton, comb. nov. and *C. rotalis* (Hook.f. & Taylor) M. Wigginton, comb. nov. *Journal of Bryology* 34 (4): 268–276.
<http://dx.doi.org/10.1179/1743282012y.0000000027>
- Wigginton, M.J. (2012b) *Mosses & Liverworts of St Helena*. Pisces Publications, Newbury, 128 pp.
- Yang, X.J. & Wu, X.W. (2011) *Sinolejeunea yimaensis* gen. et sp. nov. (Hepaticae) from the Middle Jurassic Yima Formation in Henan Province of China. *Science China Earth Sciences* 54: 228–232.
<http://dx.doi.org/10.1007/s11430-010-4153-2>
- Ye, W., Wei, Y.-M., Schäfer-Verwimp, A. & Zhu, R.-L. (2013 [2012]) Phylogenetic position of *Oryzolejeunea* (Lejeuneaceae, Marchantiophyta): Evidence from molecular markers and morphology. *Journal of Systematics and Evolution* 51 (4): 468–475.
<http://dx.doi.org/10.1111/j.1759-6831.2012.00238.x>
- Ye, W. & Zhu, R.-L. (2012) On the phylogenetic position of neotropical *Oryzolejeunea* (Lejeuneaceae, Marchantiophyta). In: W.R. Buck, B. Goffinet, A. Litt & D.B. Poli (eds.), MOSS 2012 (June 16–18, 2012) and 3rd International Symposium on Molecular Systematics of Bryophytes (June 20–22, 2012). Abstracts and Program. The New York Botanical Garden, Bronx, NY, p. 83.
- Zhou, L.-P., Zhang, L. & Xing, F.-W. (2012) The genus *Bazzania* in China and adjacent regions. 1. *Bazzania dulongensis* L.-P.Zhou & L.Zhang sp. nov. and *Bazzania hainanensis* L.-P.Zhou & L.Zhang sp. nov. *Journal of Bryology* 34 (1): 22–31.
<http://dx.doi.org/10.1179/1743282011y.0000000039>
- Zhu, R.-L. & Müller, F. (2012) *Cheilolejeunea hyalomarginata*, a remarkable new species of Lejeuneaceae (Marchantiophyta) from New Caledonia. *Bryologist* 115 (2): 217–221.
<http://dx.doi.org/10.1639/0007-2745-115.2.217>

- Zhu, R.-L. & Wei, Y.-M. (2012) Taxonomic notes on *Trachylejeunea malangensis* Herzog (Lejeuneaceae) known from Borneo. *Journal of Bryology* 34 (4): 318–321.
<http://dx.doi.org/10.1179/1743282012y.0000000010>
- Zhu, R.-L., Wei, Y.-M. & He, Q. (2011a) *Caudalejeunea tridentata*, a remarkable new species of Lejeuneaceae (Marchantiophyta) from China. *Bryologist* 114 (3): 469–473.
<http://dx.doi.org/10.1639/0007-2745-114.3.469>
- Zhu, R.-L., Ye, W. & Wei, Y.-M. (2011b) [Abstract] The status of the neotropical *Oryzolejeunea* (Lejeuneaceae, Marchantiophyta). In: 2011 National Symposium on Bryophytes: Abstracts. Botanical Society of China, Xinjiang, China, p. 46.