

Index of Bryophytes 2001–2004

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INTRODUCTION

In this index we attempt to list, in an abbreviated form, the citations for names published for bryophytes: between January 1, 2001 and December 31, 2004 for hepatics and January 1, 2002 and December 31, 2004 for mosses, synchronizing the indexes for mosses and hepatics (Crosby & Engel, 2005; Crosby & Magill, 2004). All ranks are included. We also list some names that were overlooked in previous indexes and some corrections to previous indexes.

We have adopted an abbreviated style for several reasons. First, it allows us to compile the index from the data accumulated by us and colleagues in the TROPICOS database much more quickly than in the previous, more expanded format (see listing under Crosby in the Bibliography for citations of earlier indexes). Second, the resulting index is much smaller (many fewer pages), reducing production and distribution costs. Third, there is a steadily decreasing demand for this sort of index, so it is harder to justify the effort and expense of producing the former, more detailed form. All names listed here are in TROPICOS, and by accessing that data base (<http://mobot.mogot.org/W3T/Search/most.html>), additional information may be obtained.

A plan for future indexes might be to produce a printed version such as this for each year and make a cumulative version, starting with 2001, available for down load from the web.

The citation for *taxa* is the name followed the name of the author(s), abbreviated generally following Brummitt and Powell (1992; most names not listed there may be checked at http://www.ipni.org/ipni/query_author.html), the year of publication and page number. By combining the author's name and year, the full reference may be found in the bibliography: *Acrobolbus caducifolius* R. M. Schust., 2001b: 154.

From the bibliography:

Schuster, R. M. 2001b. Revisionary studies on austral Acrobolbaceae, I. J. Hattori Bot. Lab. 90: 97–166.

By combining the information in the index and that in the bibliography, one may construct the standard citation:

Acrobolbus caducifolius R. M. Schust., J. Hattori Bot. Lab. 90: 154. 2001.

Citations for new *combinations* contain parenthetical references to basionyms or replaced names, which are not listed separately here:

Amazoopsis diplopoda (Pócs in Váňa) J. J. Engel & G. L. S. Merr., 2004: 245 (*Arachniopsis diplopoda*, 1984).

For new *names* the “Replaced name” and the “Blocking name” that prevents the reuse of an epithet are indicated.

Orthotrichum jetteae B. H. Allen, 2002: 639. Replaced name: *Orthomitrium tuberculatum* Lewinsky-Haapasaari & Crosby, 1996. Blocking name: *Orthotrichum tuberculatum* Mitt., 1869.

Names preceded by an asterisk (*) are interpreted by us as contrary to the St. Louis Code (Greuter et al., 2000):

**Anastrophyllum* sect. *Hypocladopsis* R. M. Schust., 2002b: 315, invalid, no Latin description.

Later homonyms have their earlier homonyms indicated as “Earlier name”:

**Jungermannia polycarpa* Gao Chien & Bai Xue-liang, 2001: 147. f. 6, illegitimate, later homonym. Earlier name: *Jungermannia polycarpa* Nees in Mart., 1833.

The “Original placement” of new taxa is indicated, when the publishing author indicated it. Physothecoideae J. J. Engel & Gradst., 2003: 770.

Original placement: Geocalycaceae.

Entries preceded by a dagger (†) are names of fossils.

†*Acroporiites longirostris* J.-P. Frahm, 2004c: 26.

Occasionally names are annotated, and some of these are names published before the period covered by this index. Because of the way the database is constructed, this results in the full (abbreviated) citation's being listed and an entry in the Bibliography:

Iwatsukia spinosa (Fulford) R. M. Schust., 1990: 249 (*Cladomastigum spinosum*, 1972). Note: redundant in R. M. Schuster, Nova Hedwigia Beih. 119: 59. 2002.

Similarly, entries in the Bibliography may be annotated:

Ochyra, R., J. Żarnowiec & H. Bednarek-Ochyra. 2003. Census catalogue of Polish mosses. Biodiv. Poland 3: 1–372. — The importance of this catalog reaches far beyond Polish floristics, as many new taxa are recognized and many nomenclatural novelties are introduced.

We thank A. R. Perry for pointing out the existence of *Bryum chibinense* and numerous colleagues for sending reprints. Authors of papers containing new nomenclature are encouraged to send reprints or pdfs to the senior author. Some of the original input for names listed here into TROPICOS was made by Bruce Allen (MO), William R. Buck (NY), Len Ellis (BM), Angela Newton (BM).

HEPATICIS

- Acrobolbus antillanus* R. M. Schust., 2001b: 143. f. 13–14. Note: invalid, no description, in R. M. Schuster, *New Man. Bryol.* 2: 989. f. 58. 1984.
- Acrobolbus caducifolius* R. M. Schust., 2001b: 154.
- Acrobolbus diversifolius* R. M. Schust., 2001b: 150.
- Acrobolbus spinifolius* R. M. Schust., 2001b: 137.
- Adelanthus aureocinctus* (R. M. Schust.) R. M. Schust., 2002b: 178 (*Adelanthus decipiens* subsp. *aureocinctus*, 1978).
- Amazoopsis* J. J. Engel & G. L. S. Merr., 2004: 242. Original placement: “relationships are not known.”
- Amazoopsis diplopoda* (Pócs in Váña) J. J. Engel & G. L. S. Merr., 2004: 245 (*Arachniopsis diplopoda*, 1984).
- Amazoopsis dissotricha* (Spruce) J. J. Engel & G. L. S. Merr., 2004: 247 (*Arachniopsis dissotricha*, 1882).
- Amazoopsis gracilis* J. J. Engel & G. L. S. Merr., 2004: 246. f. 84.
- Amphicephalozia geisslerae* Pócs & Váña, 2001: 145.
- Amphilejeunea reflexistipula* (Lehm. & Lindenb. in Lehm.) Gradst. in Gradst., S. P. Churchill & N. Salazar, 2001: 143 (*Jungermannia reflexistipula*, 1833).
- Amphilophocolea* R. M. Schust., 2001a: 98.
- Amphilophocolea sciaphila* R. M. Schust., 2001a: 98.
- Anastrophyllum* sect. *Anastrophylopsis* R. M. Schust., 2002b: 310.
- **Anastrophyllum* sect. *Hypocladopsis* R. M. Schust., 2002b: 315, invalid, no Latin description.
- **Anastrophyllum hypnocladopsis* R. M. Schust., 2002b: 315, invalid, herbarium not indicated.
- **Anastrophyllum intermedium* R. M. Schust., 2002b: 303, invalid, no Latin description and type not indicated.
- Anastrophyllum lignicola* D. B. Schill & D. G. Long, 2002: 130.
- Anastrophyllum paramicola* R. M. Schust., 2002b: 316.
- Andrewsianthus* subgen. *Cephalolobus* (R. M. Schust.) R. M. Schust., 2002b: 326 (*Cephalolobus*, 1966).
- Andrewsianthus* subgen. *Pseudotritomaria* R. M. Schust., 2002b: 323.
- Andrewsianthus cuspidatus* R. M. Schust., 2002b: 331, invalid, replaced name not indicated. Note: based on “*Cephalolobus squarrosus* Schust.”
- Andrewsianthus perigonalis* (Hook. & Taylor) R. M. Schust., 2002b: 336 (*Jungermannia perigonalis*, 1844).
- Anthocerotophytina Doweld, 2001: I. Note: validated by reference to Anthocerophyta Stotler & Crandall-Stotler, *Bryologist* 80: 425. 1977.
- Aphanolejeunea azorica* (V. Allorge & Jovet-Ast) Bernecker & Pócs in Gradst. & D. P. Costa, 2003: 109 (*Cololejeunea azorica*, 1955).
- Apomarsupella rubida* (Mitt.) R. M. Schust., 2002b: 562 (*Jungermannia rubida*, 1860 [1861]).
- Asterella* subgen. *Wallichianae* D. G. Long, 2001 [2000]: 43.
- Asterella alpina* (Steph.) D. G. Long in Gradst., R. I. Meneses & Arbe, 2003: 9 (*Fimbraria alpina*, 1899).
- Bazzania fasciculata* (Steph.) Meagher, 2002: 6 (*Mastigobryum fasciculatum*, 1908).
- Calyptrocolea aureomarginata* (R. M. Schust.) R. M. Schust., 2002b: 189 (*Adelanthus aureomarginatus*, 1978).
- Calyptrocolea pittieri* (Steph.) R. M. Schust., 2002b: 189 (*Tylimanthus pittieri*, 1922). Note: “comb. n.” repeated on page 193.
- Calyptrocolea squarrosa* (Grolle) R. M. Schust., 2002b: 189 (*Adelanthus squarrosus*, 1989).
- Calyptrocolea tenuis* (J. J. Engel & Grolle) R. M. Schust., 2002b: 191 (*Adelanthus tenuis*, 1972).
- Caudalejeunea streimannii* Sass-Gyarmati, 2002: 129.
- Cephalozia chilensis* (J. J. Engel & R. M. Schust.) R. M. Schust., 2002b: 29 (*Metahygrobiella chilensis*, 1988).
- Cephalozia elachista* var. *spinophylla* (Gao Chien in Gao Chien & Zhang Guang-chu) Gao Chien, 2003: 181 (*Cephalozia spinophylla*, 1981).
- Cephalozia hamatiliba* subsp. *siamensis* (N. Kitag.) Váña in T. J. Kop. et al., 2004: 16 (*Cephalozia siamensis*, 1969).
- **Cephalozia* sect. *Stoloniferae* R. M. Schust., 2002b: 118, invalid, no Latin description. Note: the statement “The Latin diagnosis of the species [*C. stolonifera*, which is referenced by the author] diagnoses the section” is incorrect under the *Code*: to validate the sectional name, reference must be made to a previously published description “of a genus or subdivision of a genus.”
- Cephalozia biokoensis* Váña & F. Müll., 2003: 1. f. 1.
- **Cephalozia rufobrunnea* R. M. Schust., 2002b: 144. f. 265A, invalid, herbarium not indicated.
- Cephalozia randii* (S. W. Arnell) Grolle, 2002: 75 (*Cephalozia randii*, 1953).
- Ceratolejeunea dussiana* (Steph. in Urb.) G. Dauphin, 2003: 54 (*Pycnolejeunea dussiana*, 1902).
- Ceratolejeunea minuta* G. Dauphin, 2003: 66.
- Cheilolejeunea celata* M. A. M. Renner & Glenny, 2003: 169. f. 1.
- Cheilolejeunea holostipa* (Spruce) Grolle & Zhu Rui-liang in Grolle, Zhu Rui-liang & Gradst., 2001 [2002]: 1071 (*Lejeunea holostipa*, 1884).
- Cheilolejeunea insecta* Grolle & Gradst. in Grolle, Zhu Rui-liang & Gradst., 2001 [2002]: 1071.
- Cheilolejeunea norisiae* G. Dauphin & Gradst., 2003: 259. f. 1.
- †*Cheilolejeunea suzannensis* (Grolle) Grolle & Zhu Rui-liang in Grolle, Zhu Rui-liang & Gradst., 2001 [2002]: 1073 (*Cyrtolejeunea suzannensis*, 1984).
- Chiloscyphus* subgen. *Eurychiloscyphus* Hässel, 2001 [2000]: 38.
- Chiloscyphus aperticaulis* J. J. Engel, 2004a: 229.
- Chiloscyphus concavus* (Steph.) Hässel, 2001 [2000]: 40 (*Lophocolea concava*, 1900).
- Chiloscyphus kashyapii* A. Srivast. & S. C. Srivast., 2002: 34.
- Chondriolejeunea* (Benedix) Kis & Pócs, 2001: 239 (*Cololejeunea* subgen. *Chondriolejeunea*, 1953).
- Chondriolejeunea chinii* (Tixier) Kis & Pócs, 2001: 239 (*Cololejeunea chinii*, 1973).

- Chondriolejeunea pseudostipulata* (Schiffn.) Kis & Pócs, 2001: 239 (*Cololejeunea pseudostipulata*, 1890).
- Chondriolejeunea shimizui* (N. Kitag.) Kis & Pócs, 2001: 239 (*Cololejeunea shimizui*, 1969).
- Chondriolejeunea shimizui* var. *phangngana* (N. Kitag.) Kis & Pócs, 2001: 239 (*Cololejeunea shimizui* var. *phangngana*, 1969).
- Cololejeunea attilana* Pócs, 2002a: 186.
- Cololejeunea chuahiana* Pócs, 2002c: 11.
- Cololejeunea ecuadoriensis* Pócs, 2002b: 372.
- Cololejeunea hyalina* G. Asthana & S. C. Srivast., 2003: 25.
- Cololejeunea johannis-winkleri* (Herzog) Zhu Rui-liang in Zhu Rui-liang, Zheng Min & Zhao Xin, 2004: 528 (*Leptocolea johannis-winkleri*, 1931).
- Cololejeunea karnatakensis* G. Asthana & S. C. Srivast., 2003: 26.
- Cololejeunea nilgiriensis* G. Asthana & S. C. Srivast., 2003: 27.
- Cololejeunea schusteri* Pócs, 2002b: 376.
- Cololejeunea siangensis* G. Asthana & S. C. Srivast., 2003: 57.
- Cololejeunea udarii* G. Asthana & S. C. Srivast., 2003: 40.
- Colura* sect. *Glotta* Grolle & Zhu Rui-liang, 2002: 187.
- Colura* subgen. *Glotta* Grolle & Zhu Rui-liang, 2002: 187.
- Cronisia fimbriata* (Nees in Mart.) Whittm. & Bischl. in Bischl. & Whittm., 2001: 170 (*Riccia fimbriata*, 1833).
- Cryptostipula* R. M. Schust., 2002b: 396. Original placement: Jungermanniaceae.
- Cryptostipula inundata* R. M. Schust., 2002b: 398. f. 362A.
- Cyanolophocolea* (R. M. Schust.) R. M. Schust., 2001a: 102 (*Lophocolea* sect. *Cyanolophocolea*, 1980).
- Cyanolophocolea echinella* (Lindenb. & Gottsche in Gottsche, Lindenb. & Nees) R. M. Schust., 2001a: 102 (*Lophocolea echinella*, 1847).
- Cyathodium bischlerianum* N. Salazar, 2001: 141.
- †*Cylindrocolea dimorpha* (Casp.) Grolle in Grolle & K. Meister, 2004b: p. 14 (*Jungermannia dimorpha*, 1887).
- Diplasiolejeunea cobrensis* subsp. *antsirananae* Pócs, 2001: 72.
- Diplasiolejeunea erostrata* Schäf.-Verw., 2004: 3.
- Diplasiolejeunea grandirostrata* Schäf.-Verw., 2004: 7.
- Diplasiolejeunea pluridentata* Schäf.-Verw., 2001b: 71.
- Drepanolejeunea* sect. *Africanae* Pócs, 2001: 71.
- Drepanolejeunea geisslerae* Pócs, 2001: 70.
- Drepanolejeunea mascarena* (S. W. Arnell) Zhu Rui-liang & Grolle, 2003: 467 (*Capillolejeunea mascarena*, 1965).
- Drepanolejeunea vandenberghenii* Buchbender & Eb. Fisch., 2004: 273.
- Fossombronia caespitififormis* subsp. *multispira* (Schiffn.) J. R. Bray & Cargill, 2003: 131 (*Fossombronia caespitififormis* var. *multispira*, 1917).
- Fossombronia nyikaensis* Perold, 2001b: 48.
- Fossombronia zuurbergensis* Perold, 2001a: 25.
- Fossombroniopsida* W. Frey & Hilger in W. Frey, M. Hofm. & Hilger, 2001: 438.
- Frullania darwinii* Gradst. & J. Uribe in J. Uribe, 2004: 296.
- Frullania hamatosetacea* Grolle in Grolle & K. Meister, 2004b: p. 22.
- Frullania hattorii* Konrat & Braggins, 2003: 56.
- Frullania mammilligera* Grolle, 2003: 155.
- Frullania pycnoclada* Grolle in Grolle & K. Meister, 2004b: p. 25.
- Fuscocephaloziopsis subintegra* Gradst. & Váňa in Parolly et al., 2004: 274.
- Gottschea macrodonta* (W. E. Nicholson in Hand.-Mazz.) Gao Chien & Wu Yu-huan, 2004: 264 (*Schistochila macrodonta*, 1930).
- Gottschelia maxima* (Steph.) Grolle in Grolle, D. B. Schill & D. G. Long, 2003: 6 (*Tylimanthus maximus*, 1922).
- Gottschelia patoniae* Grolle, D. B. Schill & D. G. Long, 2003: 3. f. 1.
- Gymnocolea inflata* subsp. *acutiloba* (Schiffn.) R. M. Schust. & Damsh. ex L. Söderstr. & Váňa in L. Söderstr., Urmi & Váňa, 2002: 43 (*Lophozia acutiloba*, 1908).
- Hattoriella morrisoncola* (Horik.) Bakalin, 2003b: 93 (*Lophozia morrisoncola*, 1934).
- Hattoriella subcrispa* (Herzog) Bakalin, 2003b: 94 (*Lophozia subcrispa*, 1943).
- Herbertus gaochienii* Fu Xing in Gao Chien, 2003: 38. f. 15.
- **Herbertus mehrae* D. Kumar & N. Manocha, 2002: 80, invalid, no description.
- Herbertus streimannii* M.-L. So, 2003: 13.
- Herbertus subrotundatus* Fu Xing & Yi Yan-jun in Yi Yan-jun, Fu Xing & Gao Chien, 2001: 89.
- Heteroscyphus* sect. *Connati* A. Srivast. & S. C. Srivast., 2002: 77, “*Connatus*.”
- Heteroscyphus* sect. *Metaheteroscyphus* A. Srivast. & S. C. Srivast., 2002: 96.
- Heteroscyphus darjeelingensis* A. Srivast. & S. C. Srivast., 2002: 115.
- Heteroscyphus flaccidus* (Mitt.) A. Srivast. & S. C. Srivast., 2002: 85 (*Lophocolea flaccida*, 1861).
- Heteroscyphus hyalinus* (Steph.) A. Srivast. & S. C. Srivast., 2002: 118 (*Lophocolea hyalina*, 1899).
- Heteroscyphus mononucleus* J. J. Engel, 2001: 241.
- Heteroscyphus orbiculatus* A. Srivast. & S. C. Srivast., 2002: 140.
- Heteroscyphus palniensis* A. Srivast. & S. C. Srivast., 2002: 130.
- Heteroscyphus parvus* A. Srivast. & S. C. Srivast., 2002: 112.
- Heteroscyphus spiniferus* Gao Chien, Cao Tong & Wu Yu-huan, 2004: 97.
- Iwatsukia spinosa* (Fulford) R. M. Schust., 1990: 249 (*Cladomastigum spinosum*, 1972). Note: redundant in R. M. Schuster, *Nova Hedwigia* Beih. 119: 59. 2002.
- **Jungermannia brevicaulis* Gao Chien & Bai Xue-liang, 2001: 124, illegitimate, later homonym. Earlier name: *Jungermannia brevicaulis* Raddi, 1818.
- Jungermannia caoii* Gao Chien & Bai Xue-liang, 2001: 152. f. 5.

- Jungermannia cheniana* Gao Chien, Wu Yu-huan & Grolle, 2003: 190.
- Jungermannia kashyapii* S. C. Srivast., S. Srivast. & D. Sharma, 2003: 131.
- **Jungermannia laxifolia* Gao Chien in Gao Chien & Bai Xue-liang, 2003: 270, illegitimate, later homonym. Earlier name: *Jungermannia laxifolia* Hook., 1816. Replaced name: *Jungermannia microphylla* Zhang Guang-chu in Aur & Zhang Guang-chu, 1985. Blocking name: *Jungermannia laxifolia* Hook., 1816.
- Jungermannia laxiphylla* Gao Chien & Bai Xue-liang, 2001: 144. Replaced name: *Jungermannia microphylla* Zhang Guang-chu in Aur & Zhang Guang-chu, 1985. Blocking name: *Jungermannia microphylla* Hook., 1818.
- Jungermannia lixingjiangiae* Gao Chien & Bai Xue-liang, 2001: 128, “*lixingjiangii*.”
- Jungermannia louae* Gao Chien & Bai Xue-liang, 2001: 145. f. 6, “*louii*.”
- Jungermannia microrevoluta* Gao Chien & Bai Xue-liang, 2001: 146. f. 5.
- Jungermannia parvipermantha* Gao Chien & Bai Xue-liang, 2001: 128.
- **Jungermannia polycarpa* Gao Chien & Bai Xue-liang, 2001: 147. f. 6, illegitimate, later homonym. Earlier name: *Jungermannia polycarpa* Nees in Mart., 1833.
- Jungermannia zangmuii* Gao Chien & Bai Xue-liang, 2001: 134.
- Jungermannia zengii* Gao Chien & Bai Xue-liang, 2001: 151. f. 8.
- Jungermanniophytina Doweld, 2001: I. Note: validated by reference to Jungermannioptida Stotler & Crandall-Stotler, *Bryologist* 80: 425. 1977.
- †Langiophytaceae Doweld, 2001: I. Note: Doweld recognizes a kingdom Bryobiotina, and we somewhat arbitrarily include this name with the hepatics: it is sandwiched between Marchantiophyta and Anthocerothyta in Doweld’s classification.
- *†Langiophytaleae Doweld, 2001: I, invalid, no separate description. Note: the *Code* provides for reference to a previously, not simultaneously, published description. Doweld recognizes a kingdom Bryobiotina, and we somewhat arbitrarily include this name with the hepatics: it is sandwiched between Marchantiophyta and Anthocerothyta in Doweld’s classification.
- *†Langiophytophyta Doweld, 2001: I, invalid, no separate description. Note: the *Code* provides for reference to a previously, not simultaneously, published description. Doweld recognizes a kingdom Bryobiotina, and we somewhat arbitrarily include this name with the hepatics: it is sandwiched between Marchantiophyta and Anthocerothyta in Doweld’s classification.
- †Langiophytosida Doweld, 2001: I. Note: Doweld recognizes a kingdom Bryobiotina, and we somewhat arbitrarily include this name with the hepatics: it is sandwiched between Marchantiophyta and Anthocerothyta in Doweld’s classification.
- Leiocolea gillmanii* fo. *orbiculata* (R. M. Schust.) Konstan. in Konstan. & N. E. Korol., 2003: 158 (*Lophozia gillmanii* fo. *orbiculata*, 1969).
- Leiomitra* subgen. *Brachygyna* R. M. Schust., 2001c: 480.
- Leiomitra elegans* (Lehm.) Hässel, 2002: 465. f. 1 (*Trichocolea elegans*, 1857).
- Leiomitra hirticaulis* R. M. Schust., 2001c: 472.
- Leiomitra smaragdina* Hässel, 2002: 467. f. 2.
- Lejeunea alata* var. *patriciae* Pócs, 2001: 72.
- Lejeunea boliviensis* (Steph. in Herzog) Zhu Rui-liang & E. M. Reiner, 2004: 237 (*Strepsilejeunea boliviensis*, 1916).
- Lejeunea latilobula* (Herzog) Zhu Rui-liang & M.-L. So, 2002: 168 (*Taxilejeunea latilobula*, 1930).
- Lejeunea multidentata* E. M. Reiner & Mustelier, 2004: 103.
- Lejeunea patriciae* Schäf.-Verw., 2001a: 64. Replaced name: *Lejeunea pilifera* Tixier, 1971. Blocking name: *Lejeunea pilifera* Spruce, 1884.
- Lejeunea schusteri* Grolle, 2001: 60. Replaced name: *Rectolejeunea denudata* R. M. Schust., 2000. Blocking name: *Lejeunea denudata* J. J. Engel, 1975.
- Lepidozia* subg. *Notholepidozia* R. M. Schust. in J. J. Engel & R. M. Schust., 2001: 31.
- Lepidozia acantha* J. J. Engel in J. J. Engel & R. M. Schust., 2001: 71. f. 27.
- Lepidozia bidens* J. J. Engel in J. J. Engel & R. M. Schust., 2001: 79. f. 30.
- Lepidozia elobata* R. M. Schust. in J. J. Engel & R. M. Schust., 2001: 74. f. 28.
- Lepidozia fugax* J. J. Engel in J. J. Engel & R. M. Schust., 2001: 63.
- Lepidozia glaucescens* J. J. Engel in J. J. Engel & R. M. Schust., 2001: 101. f. 39.
- Lepidozia laevifolia* var. *acutiloba* J. J. Engel in J. J. Engel & R. M. Schust., 2001: 61.
- Lepidozia laevifolia* var. *alpina* R. M. Schust. & J. J. Engel in J. J. Engel & R. M. Schust., 2001: 62.
- Lepidozia novae-zelandiae* var. *heterostipa* R. M. Schust. in J. J. Engel & R. M. Schust., 2001: 70.
- Lepidozia novae-zelandiae* var. *minima* R. M. Schust. in J. J. Engel & R. M. Schust., 2001: 71.
- Lepidozia obtusiloba* var. *parvula* J. J. Engel in J. J. Engel & R. M. Schust., 2001: 48.
- Lepidozia ornata* J. J. Engel in J. J. Engel & R. M. Schust., 2001: 49. f. 17.
- Lepidozia pumila* J. J. Engel in J. J. Engel & R. M. Schust., 2001: 76. f. 29.
- Lepidozia serrulata* J. J. Engel, 2004b: 273.
- Lepidozia suyungii* Gao Chien & Bai Xue-liang, 2002: 192. f. 1. Note: redescribed in Gao, *Fl. Bryophy. Sin.* 9: 119. f. 52. 2003.
- Leptoscyphus chilensis* (De Not.) Grolle in Herzog, 1960: 187 (*Lophocolea chilensis*, 1855). Note: redundant in Hässel de Menéndez, *J. Hattori Bot. Lab.* 91: 207. 2001.
- Leptoscyphus magellanicus* (Gola) Hässel, 2001: 214 (*Lophozia magellanica*, 1923).
- Lethocolea naruto-toganensis* Furuki, 2001: 306.
- Lophocolea* sect. *Integrifolia* A. Srivast. & S. C. Srivast., 2002: 157.

- Lophocolea cuspidata* var. *asymmetrica* A. Srivast. & S. C. Srivast., 2002: 202.
- Lophocolea himalayensis* A. Srivast. & S. C. Srivast., 2002: 182.
- Lophocolea martiana* subsp. *bidentula* (Nees in Gottsche, Lindenb. & Nees) Gradst. in Gradst. & D. P. Costa, 2003: 73 (*Chiloscyphus bidentulus*, 1845).
- Lopholejeunea leioptera* Sass-Gyarmati, 2001: 80.
- Lopholejeunea minuta* Zhu Rui-liang & Gradst., 2004: 436.
- Lophozia austrosibirica* Bakalin, 2003a: 49. f. 2.
- Lophozia kutschcheri* Grolle in Grolle & K. Meister, 2004a: 79.
- Lophozia lantratoviae* Bakalin, 2003a: 47. f. 1.
- Lophozia nepalensis* Bakalin, 2003a: 50. f. 3.
- Lophozia pellucida* var. *rubrigemma* (R. M. Schust.) Bakalin in Dulin, Konstan. & Bakalin, 2003: 48 (*Lophozia rubrigemma*,).
- Lophozia subalpina* (R. M. Schust.) R. M. Schust., 2002b: 263 (*Lophozia autoica* var. *subalpina*, 1968).
- Lophozia ventricosa* var. *guttulata* (Lindb. & Arnell) Bakalin, 2001: 208 (*Jungermannia guttulata*, 1889).
- Lophozia wenzelii* var. *groenlandica* (Gottsche, Lindenb. & Nees) Bakalin, 2001: 213 (*Jungermannia groenlandica*, 1844).
- †Lyonophytaceae Doweld, 2001: I. Note: Doweld recognizes a kingdom Bryobiotina, and we somewhat arbitrarily include this name with the hepatics: it is sandwiched between Marchantiophyta and Anthocerochyta in Doweld's classification.
- *†Lyonophytales Doweld, 2001: I, invalid, no separate description. Note: the *Code* provides for reference to a previously, not simultaneously, published description. Doweld recognizes a kingdom Bryobiotina, and we somewhat arbitrarily include this name with the hepatics: it is sandwiched between Marchantiophyta and Anthocerochyta in Doweld's classification.
- Marchantiophyta Stotler & Crand.-Stotl. in A. J. Shaw & Goffinet, 2000: 63. Note: validated by reference to Hepatophyta Stotler & Crandall-Stotler, Bryologist 80: 425. 1977, which is a perfectly acceptable name under the *Code*; redundant in Doweld, Prosyllabus Tracheophyt. I. 2001.
- Marchantiophytina Doweld, 2001: I.
- Marchantiopsida Doweld, 2001: I. Note: invalid, no Latin description in Stotler & Crandall-Stotler, Bryologist 80: 426. 1977; Doweld validates the name by reference to Hepatophyta Stotler & Crandall-Stotler, 1977.
- Marsupella* subgen. *Amphimarsupella* R. M. Schust., 2002b: 551.
- **Marsupella andicola* R. M. Schust., 2002b: 555. f. 420A5, invalid, no Latin description. Note: type not cited.
- Marsupella lacerata* (Steph.) Váňa, 2003: 119 (*Sphenobolus laceratus*, 1902).
- Marsupella moralesae* (Váňa) Váňa, 2003: 124 (*Gymnomitrium moralesae*, 1980).
- Marsupella truncato-apiculata* (Herzog) Váňa, 2003: 124 (*Gymnomitrium truncato-apiculata*, 1934).
- †*Mastigolejeunea contorta* (Göpp. & Berendt) Gradst. & Grolle in Grolle, K. Meister & M.-L. So, 2004: 119 (*Jungermannites contortus*, 1845).
- **Metahygrobiella* subgen. *Apohygrobiella* R. M. Schust., 2002b: 15, invalid, no description.
- Metalejeunea winkleri* Zhu Rui-liang & Grolle, 2002: 498.
- Metzgeria albinea* var. *angusta* (Steph.) D. Pinheiro & Gradst., 2000 [2001]: 757 (*Metzgeria angusta*, 1899).
- Metzgeria coorgense* S. C. Srivast. & Sm. Srivast., 2004: 81. pl. 1.
- Metzgeria raoi* S. C. Srivast. & Sm. Srivast., 2004: 83. pl. 2–3, "raoi."
- Metzgeria sikkimensis* S. C. Srivast. & K. K. Rawat, 2001 [2003]: 71.
- Metzgeria submarginata* M.-L. So, 2002b: 201.
- Microlejeunea nyandaruenensis* Pócs, 2002c: 14.
- Microlejeunea ocellata* (Herzog) Grolle, 2001: 60 (*Rectolejeunea ocellata*, 1949).
- Monodactylopsis minima* R. M. Schust. ex J. J. Engel & G. L. S. Merr., 2004: 241.
- Nardia* subgen. *Aponardia* R. M. Schust., 2002b: 360.
- Nardia* subgen. *Eonardia* R. M. Schust., 2002b: 358.
- Nardia macroporiantha* Wu Yu-huan & Gao Chien, 2003: 195.
- Notothylas udarii* D. K. Singh & Semwal, 2001: 35. pl. 1–2.
- Paracromastigum succulentum* (Sim) J. J. Engel & G. L. S. Merr., 2001: 151 (*Lepidozia succulenta*, 1926).
- Paracromastigum vastilobum* (Steph.) J. J. Engel & G. L. S. Merr., 2004: 255 (*Lepidozia vastiloba*, 1909).
- Petalophyllaceae (R. M. Schust.) Stotler & Crand.-Stotl. in Crand.-Stotl., Stotler & C. H. Ford, 2002: 335 (Petalophylloideae, 1991).
- Petalophyllum americanum* C. H. Ford & Crand.-Stotl. in Crand.-Stotl., Stotler & C. H. Ford, 2002: 335.
- Petalophyllum hodgsoniae* C. H. Ford & Crand.-Stotl. in Crand.-Stotl., Stotler & C. H. Ford, 2002: 336, "hodgsonii."
- Phaeoceros foveatus* J. Haseg., 2001: 374.
- Physotheca* J. J. Engel & Gradst., 2003: 764. Original placement: Geocalycaceae.
- Physotheca autoica* J. J. Engel & Gradst., 2003: 764.
- Physothecoideae J. J. Engel & Gradst., 2003: 770. Original placement: Geocalycaceae.
- Pictolejeunea* subgen. *Neopictolejeunea* Ilkiu-Borges, 2002 [2003]: 320.
- Pictolejeunea reginae* Ilkiu-Borges, 2002 [2003]: 318.
- Plagiochila bifaria* var. *rosea* (R. M. Schust.) J. Heinrichs in J. Heinrichs, M. Lindner & Pócs, 2004: 112 (*Rhodoplagiochila rosea*, 1978).
- Plagiochila cucullifolia* var. *anomala* J. Heinrichs & Gradst. in J. Heinrichs et al., 2003: 208.
- Plagiochila dimorpha* var. *ecuadorica* (Inoue) J. Heinrichs, 2002: 87 (*Steereochila ecuadorica*, 1987).
- Plagiochila groehnii* Grolle & J. Heinrichs, 2003: 289.
- Plagiochila heterophylla* var. *beauverdii* (Steph. in Herzog) J. Heinrichs, 2002: 148 (*Plagiochila beauverdii*, 1916).
- Plagiochila patriciae* J. Heinrichs & H. Anton in J. Heinrichs, 2002: 107.
- Plagiochila perdentata* M.-L. So & Grolle, 2001: 460.

- Plagiochila rutilans* var. *moritziana* (Gottsche & Lindenb. ex Hampe) J. Heinrichs, 2002: 197 (*Plagiochila moritziana*, 1847).
- Plagiochila rutilans* var. *standleyi* (Herzog ex Carl) J. Heinrichs & D. S. Rycroft in J. Heinrichs et al., 2001: 357 (*Plagiochila standleyi*, 1931).
- Plagiochila sublyallii* M.-L. So, 2001: 109.
- Plagiochila superba* var. *macrotricha* (Spruce) J. Heinrichs, 2002: 114 (*Plagiochila macrotricha*, 1885).
- Pleurocladula albescens* var. *islandica* (Nees) L. Söderstr. & Váňa in L. Söderstr., Urmi & Váňa, 2002: 43 (*Jungermannia islandica*, 1836).
- Plicanthus* R. M. Schust., 2002a: 484. Original placement: Jungermanniaceae.
- Plicanthus* sect. *Hirtelli* (R. M. Schust.) R. M. Schust., 2002a: 486 (*Chandonanthus* sect. *Hirtelli*, 1961).
- Plicanthus birmensis* (Steph.) R. M. Schust., 2002a: 486 (*Chandonanthus birmensis*, 1899). Note: the same author also proposed this “comb. n.” in Nova Hedwigia Beih. 119: 223. 2002.
- Plicanthus giganteus* (Steph.) R. M. Schust., 2002a: 485 (*Chandonanthus giganteus*, 1922).
- Plicanthus hamatus* (Steph.) R. M. Schust., 2002a: 494 (*Chandonanthus hamatus*, 1909).
- Plicanthus hirtellus* (F. Weber) R. M. Schust., 2002a: 492 (*Jungermannia hirtella*, 1815).
- Porella acutifolia* var. *linguaeifolia* (Steph.) M.-L. So, 2002a: 5 (*Madotheca linguaeifolia*, 1910).
- Porella maxima* (Steph.) M.-L. So, 2002a: 11 (*Madotheca maxima*, 1910).
- Pycnolejeunea porrectilobula* C. J. P. Bastos & O. Yano, 2002: 440.
- Radula ornata* E. A. Brown & Pócs, 2001: 436.
- Riccia coracina* Jovet-Ast, 2003: 212.
- Riccia mangalorica* Ahmad ex Jovet-Ast, 2003: 223.
- Riccia radiata* Perold, 2004: 23.
- Riccia sibayenii* Perold, 2001c: 151.
- Scapania* sect. *Grolleoscapania* Potemk., 2002: 329.
- Scapania* sect. *Muelleria* Potemk., 2002: 320.
- Scapania* sect. *Plicaticalyx* (Müll. Frib.) Potemk., 2002: 326 (*Scapania* subgen. *Plicaticalyx*, 1902).
- Scapania ciliata* var. *hawaica* (Müll. Frib.) Potemk., 2002: 321 (*Scapania hawaica*, 1905).
- Scapania davidii* Potemk., 2001: 83.
- Scapania ferruginaeoides* Cao Tong, Gao Chien & Sun Jun in Sun Jun et al., 2004: 23.
- **Scapania gaochii* Fu Xing & Cao Tong in Cao Tong et al., 2003: 541 f. 1, invalid, herbarium not indicated.
- Scapania hoffeinsiana* Grolle in Grolle & A. F. W. Schmidt, 2001: 362.
- Scapania ligulata* subsp. *stephanii* (Müll. Frib.) Potemk., Piippo & T. J. Kop., 2004: 423 (*Scapania stephanii*, 1905).
- Scapania macroparaphyllia* Cao Tong, Gao Chien & Sun Jun in Cao Tong et al., 2004: 180. f. 1.
- Scapania schljakovii* Potemk., 2001: 87.
- Scapania sinikkae* Potemk., 2001: 85.
- Schistochila minor* Gao Chien & Wu Yu-huan, 2004: 267.
- Schistochila yakushimensis* Ohnishi & Deguchi, 2003: 451. f. 1.
- Schistochilopsis obtusa* (Lindb.) Potemk. in Czernyad. & Potemk., 2003: 65 (*Jungermannia obtusa*, 1879).
- Solenostoma confertissimum* (Nees) Schljak., 1981: 51 (*Jungermannia confertissima*, 1833). Note: redundant in R. M. Schust., Nova Hedwigia Beih. 119: 371. 2002.
- Solenostoma cryptogynum* R. M. Schust., 2002b: 380. f. 355.
- Solenostoma lignuifolium* (Gottsche) R. M. Schust., 2002b: 381 (*Jungermannia linguifolia*, 1863).
- Solenostoma mildbraedii* (Steph. in Mildbr.) R. M. Schust., 2002b: 387 (*Jungermannia mildbraedii*, 1910).
- Solenostoma novazelandiae* R. M. Schust., 2002b: 380. f. 354.
- Solenostoma orbiculata* (Col.) R. M. Schust., 2002b: 380 (*Gymnomitrium orbiculatum*, 1886).
- Solenostoma totopapillosum* (Hodgson) R. M. Schust., 1997: 366 (*Jungermannia totopapillosa*, 1972). Note: redundant in R. M. Schust., Nova Hedwigia Beih. 119: 384. 2002.
- Sphaerocarpaceae Doweld, 2001: I. Note: invalid, no Latin description, in Stotler & Crandall-Stotler, Bryologist 80: 426. 1977.
- Sphaerocarposida Doweld, 2001: I.
- Stephaniellaceae (R. M. Schust.) R. M. Schust., 2002b: 584 (Stephanielloideae, 1984).
- Stolonivector waipouensis* J. J. Engel, 2003: 70. f. 1.
- Szygiella kerguelensis* M.-L. So & Grolle, 2003: 358.
- *Szygielloideae R. M. Schust., 2002b: 402, invalid, no description. Original placement: Plagiochilaceae.
- Telaranea* sect. *Ceraceae* J. J. Engel & G. L. S. Merr., 2004: 61.
- Telaranea* sect. *Neolepidozia* (Fulford & J. Taylor) J. J. Engel & G. L. S. Merr., 2004: 17 (*Neolepidozia*, 1959).
- Telaranea* sect. *Tenuifoliae* (R. M. Schust.) J. J. Engel & G. L. S. Merr., 2004: 112 (*Arachniopsis* sect. *Tenuifoliae*, 2000).
- Telaranea* sect. *Tricholepidozia* (R. M. Schust.) J. J. Engel & G. L. S. Merr., 2004: 73 (*Telaranea* subgen. *Tricholepidozia*, 1963).
- Telaranea anomala* R. M. Schust. ex J. J. Engel & G. L. S. Merr., 2004: 121.
- Telaranea aubertii* (Jovet-Ast) J. J. Engel & G. L. S. Merr., 2004: 124 (*Lepidozia aubertii*, 1948).
- Telaranea autoica* J. J. Engel & G. L. S. Merr., 2004: 124.
- Telaranea breviseta* (Herzog in Skotts.) J. J. Engel & G. L. S. Merr., 2004: 131 (*Lepidozia sejuncta* var. *breviseta*, 1942).
- Telaranea coactilis* (Spruce) J. J. Engel & G. L. S. Merr., 2004: 140 (*Arachniopsis coactilis*, 1882).
- **Telaranea confervoides* J. J. Engel & G. L. S. Merr., 2004: 143, invalid, basionym invalid. Note: based on *Arachniopsis pecten* var. *confervoides* R. M. Schust., who did not specify where the type, cited as “RMS 79-1686,” is deposited. “RMS 79-16867. NYBG” was also cited in connection with this name, but identified as *A. pecten* var. *pecten*.

- Telaranea cuneifolia* (Steph.) J. J. Engel & G. L. S. Merr., 2004: 145 (*Lepidozia cuneifolia*, 1909).
- Telaranea diacantha* (Mont.) J. J. Engel & G. L. S. Merr., 2004: 145 (*Jungermannia diacantha*, 1856).
- Telaranea disparata* J. J. Engel & G. L. S. Merr., 2004: 147. f. 47.
- Telaranea europaea* J. J. Engel & G. L. S. Merr., 2004: 150. f. 48.
- Telaranea ferruginea* J. J. Engel & G. L. S. Merr., 2004: 159.
- Telaranea fragilifolia* (R. M. Schust.) J. J. Engel & G. L. S. Merr., 2004: 90 (*Kurzia fragilifolia*, 1980).
- Telaranea granulata* J. J. Engel & G. L. S. Merr., 2004: 103. f. 31.
- Telaranea heterotexta* (Steph.) J. J. Engel & G. L. S. Merr., 2004: 160 (*Lepidozia heterotexta*, 1922).
- Telaranea inaequalis* R. M. Schust. ex J. J. Engel & G. L. S. Merr., 2004: 117. f. 37.
- Telaranea leratii* (Steph.) J. J. Engel & G. L. S. Merr., 2004: 162 (*Lepidozia leratii*, 1922).
- Telaranea lindenbergii* var. *papillata* J. J. Engel & G. L. S. Merr., 2004: 83. f. 26A.
- Telaranea longicaulis* (Piippo) J. J. Engel & G. L. S. Merr., 2004: 163 (*Kurzia longicaulis*, 1985).
- Telaranea longifolia* (M. Howe) J. J. Engel & G. L. S. Merr., 2004: 163 (*Telaranea nematodes* var. *longifolia*, 1902).
- Telaranea major* (Herzog) J. J. Engel & G. L. S. Merr., 2004: 165 (*Arachniopsis major*, 1950).
- Telaranea mamillosa* (Schiffn.) J. J. Engel & G. L. S. Merr., 2004: 166 (*Lepidozia mamillosa*, 1893).
- Telaranea marginata* J. J. Engel & G. L. S. Merr., 2004: 166.
- Telaranea monocera* Mitt. ex J. J. Engel & G. L. S. Merr., 2004: 168.
- Telaranea ophiria* (Gottsche ex Steph.) J. J. Engel & G. L. S. Merr., 2004: 176 (*Lepidozia ophiria*, 1909).
- Telaranea pallescens* (Grolle) J. J. Engel & G. L. S. Merr., 2004: 87 (*Kurzia pallescens*, 1963 [1964]).
- Telaranea papulosa* (Steph.) J. J. Engel & G. L. S. Merr., 2004: 177 (*Lepidozia papulosa*, 1909).
- Telaranea parvifolia* (Steph.) J. J. Engel & G. L. S. Merr., 2004: 178 (*Lepidozia parvifolia*, 1922).
- Telaranea patentissima* var. *ampliata* J. J. Engel & G. L. S. Merr., 2004: 48. f. 16.
- Telaranea patentissima* var. *zebrina* J. J. Engel & G. L. S. Merr., 2004: 50. f. 17.
- Telaranea pecten* (Spruce) J. J. Engel & G. L. S. Merr., 2004: 178 (*Arachniopsis pecten*, 1882).
- Telaranea pellucida* J. J. Engel & G. L. S. Merr., 2004: 179.
- Telaranea perfragilis* J. J. Engel & G. L. S. Merr., 2004: 72. Replaced name: *Telaranea fragilis* J. J. Engel & G. L. S. Merr., 1999. Blocking name: *Telaranea fragilis* Mizut., 1976.
- Telaranea planifolia* (Steph.) J. J. Engel & G. L. S. Merr., 2004: 180 (*Lepidozia planifolia*, 1906).
- Telaranea pruinosa* (Herzog) J. J. Engel & G. L. S. Merr., 2004: 184 (*Lepidozia pruinosa*, 1952).
- Telaranea pulcherrima* var. *mooreana* (Steph.) J. J. Engel & G. L. S. Merr., 2004: 79 (*Lepidozia mooreana*, 1909).
- Telaranea quadriseta* (Steph.) J. J. Engel & G. L. S. Merr., 2004: 95 (*Lepidozia quadriseta*, 1909).
- Telaranea quadrastipula* (Steph. in Steph. & Watts) J. J. Engel & G. L. S. Merr., 2004: 20 (*Lepidozia quadrastipula*, 1914).
- Telaranea quinquespina* (J. J. Engel & G. L. S. Merr.) J. J. Engel & G. L. S. Merr., 2004: 109 (*Kurzia quinquespina*, 1996).
- Telaranea redacta* (Steph. in Mildbr.) J. J. Engel & G. L. S. Merr., 2004: 186 (*Lepidozia redacta*, 1910).
- Telaranea setosa* J. J. Engel & G. L. S. Merr., 2004: 192.
- Telaranea tenuifolia* (R. M. Schust.) J. J. Engel & G. L. S. Merr., 2004: 193 (*Arachniopsis tenuifolia*, 2000).
- Telaranea trilobata* (R. M. Schust.) J. J. Engel & G. L. S. Merr., 2004: 89 (*Kurzia quadriseta* var. *trilobata*, 1980).
- Telaranea verruculosa* J. J. Engel & G. L. S. Merr., 2004: 197.
- Tetralophozia pilifera* (Steph.) R. M. Schust., 2002a: 482 (*Chandonanthus pilifer*, 1909).
- Thysananthus montanus* Gradst., X.-I. He & Piippo in Gradst. et al., 2002: 77. f. 49.
- Trabacelluloideae (Fulford in Steyerl.) R. M. Schust., 2002b: 41 (Trabacellulaceae, 1967).
- Trachylejeunea decurviloba* (Steph.) X.-I. He & Grolle in Gradst. & D. P. Costa, 2003: 192 (*Pycnolejeunea decurviloba*, 1896).
- Treubia lacunosoides* T. C. Pfeiff., W. Frey & Stech, 2002: 249.
- Triandrophyllum eophyllum* (R. M. Schust.) Gradst. in Gradst., S. P. Churchill & N. Salazar, 2001: 104 (*Olgantha eophylla*, 1996).
- Vitalianthus urubuensis* Zartman & I. L. Ackerman, 2002: 267. f. 1–7.
- Xylojeunea* X.-I. He & Grolle, 2001: 27. Original placement: Lejeuneaceae.
- Xylojeunea aquarius* (Spruce) X.-I. He & Grolle, 2001: 29 (*Lejeunea aquarius*, 1884).
- Xylojeunea crenata* (Mont.) X.-I. He & Grolle, 2001: 36 (*Lejeunea crenata*, 1838).
- Xylojeunea grolleana* (Pócs) X.-I. He & Grolle, 2001: 32 (*Trachylejeunea grolleana*, 1999).
- Xylojeunea muricella* X.-I. He & Grolle, 2001: 34.
- Acanthorrhynchium scabrifolium* (Broth. in H. Möll.) B. C. Tan & C. Ying, 2004: 307 (*Acanthocladium scabrifolium*, 1919).

MOSESSES

- †*Acroporiites* J.-P. Frahm, 2004c: 26.
- †*Acroporiites longirostris* J.-P. Frahm, 2004c: 26.
- Aerobryopsis aristifolia* Li Xing-jiang, Wu Sheng-hua & Zhang Da-cheng in Zhang Da-cheng, Li Xing-jiang & Wu Sheng-hua, 2003: 192.
- Aerobryopsis yunnanensis* Li Xing-jiang & Zhang Da-cheng in Zhang Da-cheng, Li Xing-jiang & Wu Sheng-hua, 2003: 194.
- Aloinella galeata* var. *andina* (Delgad.) Delgad. & Schiavone, 2004: 292 (*Aloinella andina*, 1973).
- Amblystegieae Vanderp. et al., 2002b: 633. Note: invalid, no Latin description, in Vanderpoorten, Hedenäs, Cox & A. J. Shaw, Taxon 51: 120. 2002.

- Amblystegiinae Vanderp. et al., 2002b: 633. Note: invalid, no Latin description, in Vanderpoorten, Hedenäs, Cox & A. J. Shaw, *Taxon*, 51: 120. 2002.
- Amblystegium pseudosubtile* Hedenäs, 2003: 19.
- Amphidioideae Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 110.
- Anacamptodontinae Vanderp. et al., 2002: 120, “Anacamptodinae.”
- Andreaeobryidae (B. M. Murray) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 96 (Andreaeobryales, 1988).
- Andreaeobryopsida (B. M. Murray) Goffinet & W. R. Buck, 2004: 232 (Andreaeobryales, 1988).
- Anomobryum lanatum* (P. Beauv.) J. R. Spence & H. P. Ramsay, 2002: 785 (*Mnium lanatum*, 1805).
- Anomobryum subrotundifolium* (A. Jaeger) J. R. Spence & H. P. Ramsay, 2002: 787 (*Bryum subrotundifolium*, 1880).
- Anomodon* subgen. *Pseudanomodon* (Limpr.) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 167 (*Anomodon* unranked. *Pseudanomodon*, 1895).
- Antitrichiaceae Ignatov & Ignatova, 2004: 942.
- Arbusculohypopterygium* Stech, T. C. Pfeiff. & W. Frey, 2002a: 220. Original placement: Hypopterygiaceae.
- Arbusculohypopterygium arbuscula* (Brid.) Stech, T. C. Pfeiff. & W. Frey, 2002a: 220 (*Hypopterygium arbuscula*, 1827).
- Atrichum altecristatum* (Renauld & Cardot) B. B. Smyth & L. C. R. Smith, 1911: 284 (*Atrichum undulatum* var. *altecristatum*, 1890). Note: redundant in Ireland, *Canad. J. Bot.* 47: 364. 1969, as listed in IOM 63–89.
- †*Atrichum groehonii* J.-P. Frahm, 2004a: 224.
- †*Atrichum mamillosum* J.-P. Frahm, 2004a: 221.
- Atrichum subrhizophyllum* J.-P. Frahm, 2004a: 224.
- Atrichum undulatum* var. *polycarpum* (Jaap) Plam., 1998: 118 (*Catharinaea undulata* var. *polycarpa*, 1910). Note: not in IOM 96–98.
- **Barbula sardoa* (Bruch & Schimp.) J.-P. Frahm in J.-P. Frahm & J. Ahmed, 2004: 35 (*Barbula convoluta* var. *sardoa*, 1842), illegitimate, earlier name included. ≡ *Barbula commutata* Jur., 1874. Note: although *sardoa* is an older epithet, it does not have priority outside its rank.
- Bartramia brevifolia* subsp. *commutata* (Mitt.) Fransén, 2004: 82 (*Bartramia commutata*, 1867).
- Bartramia hampeana* subsp. *hampei* (Mitt.) Fransén, 2004: 89 (*Bartramidula hampei*, 1882).
- Bartramia ithyphylla* subsp. *patens* (Brid.) Fransén, 2004: 93 (*Bartramia patens*, 1803).
- Bartramia subulata* subsp. *americana* Fransén, 2004: 105.
- Benitotania* H. Akiyama, T. Yamag. & Suleiman in H. Akiyama et al., 2003: 454. Original placement: Daltoniaceae.
- Benitotania elimbata* H. Akiyama, T. Yamag. & Suleiman in H. Akiyama et al., 2003: 456.
- Bicosta* Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 96. Replaced name: *Neuroloma* Cardot, 1911. Blocking name: *Neuroloma* Andr. ex DC., 1824.
- Bicosta fuegiana* (Cardot) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 96 (*Neuroloma fuegianum*, 1911).
- Brachydontium noguchii* Z. Iwats., Tad. Suzuki & Kiguchi, 2004: 199.
- Brachytheciastrum* Ignatov & Huttunen, 2002: 259. Original placement: Brachytheciaceae.
- Brachytheciastrum collinum* (Schleich. ex Müll. Hal.) Ignatov & Huttunen, 2002: 260 (*Hypnum collinum*, 1851).
- Brachytheciastrum dieckei* (Röll) Ignatov & Huttunen, 2002: 260 (*Brachythecium dieckei*, 1897).
- Brachytheciastrum falcatum* (Broth.) Ignatov & Huttunen, 2002: 260 (*Hypnum falcatum*, 1899).
- Brachytheciastrum fendleri* (Sull.) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 172 (*Leskea fendleri*, 1849).
- Brachytheciastrum kashmirensense* (Broth.) Ignatov & Huttunen, 2002: 260 (*Hypnum kashmirensense*, 1898).
- Brachytheciastrum leibergii* (Grout) Ignatov & Huttunen, 2002: 260 (*Brachythecium leibergii*, 1897).
- Brachytheciastrum microcollinum* (E. B. Bartram) Ignatov & Huttunen, 2002: 260 (*Brachythecium microcollinum*, 1946).
- Brachytheciastrum paradoxum* (Hook. f. & Wilson) Ignatov & Huttunen, 2002: 260 (*Hypnum paradoxum*, 1844).
- Brachytheciastrum trachypodium* (Funck ex Brid.) Ignatov & Huttunen, 2002: 260 (*Isothecium trachypodium*, 1827).
- Brachytheciastrum vanekii* (Šmarda) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 172 (*Brachythecium vanekii*, 1953).
- Brachytheciastrum velutinum* (Hedw.) Ignatov & Huttunen, 2002: 260 (*Hypnum velutinum*, 1801).
- Brachytheciastrum velutinum* var. *salicinum* (Schimp. in B.S.G.) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 172 (*Brachythecium salicinum*, 1853).
- Brachytheciastrum velutinum* var. *vagans* (Milde) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 172 (*Brachythecium vagans*, 1869).
- *Brachythecioideae Huttunen & Ignatov, 2003: 262, invalid, no Latin description. Placement: Brachytheciaceae. Note: autonyms are not generated above the rank of genus.
- Brachythecium* sect. *Pseudocamptothecium* Szafran ex Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 173.
- Brachythecium coarctum* (Müll. Hal.) Ignatov & Huttunen, 2002: 267 (*Eurhynchium coarctum*, 1898).
- Brachythecium tommasinii* (Sendtn. ex Boulay) Ignatov & Huttunen, 2002: 268 (*Hypnum tommasinii*, 1872).
- Bryanae (Engl.) Goffinet & W. R. Buck, 2004: 234 (Bryidae, 1892).
- Bryhnia serricuspis* (Müll. Hal.) You F. Wang & Hu Ren-liang in You F. Wang et al., 2003: 272 (*Eurhynchium serricuspis*, 1898).
- Bryoerythrophyllum aeneum* (Müll. Hal.) B. H. Allen, 2002: 33 (*Trichostomum aeneum*, 1851).

- Bryum aciculare* (Hedw.) Jolycl., 1803: 750 (*Dicranum aciculare*, 1801). Note: not in IOM 99–01; Ochyra and Lamy, Cryptog. Bryol. 22: 29–39. 2001, correct the citation used for this name in *Index Muscorum*.
- Bryum caucasicum* (Schimp. ex Broth.) C. J. Cox & Hedd., 2003: 40 (*Mielichhoferia caucasica*, 1892).
- Bryum chibinense* Schljak., 1961: 132. f. 15–18. Note: not in *Index Muscorum*.
- Bryum dyffrynense* Holyoak, 2003: 108.
- Bryum pellucidum* Jolycl., 1803: 750. Note: not in IOM 99–01; Ochyra and Lamy, Cryptog. Bryol. 22: 29–39. 2001, correct the citation used for this name in *Index Muscorum*.
- Bryum porsildii* (I. Hagen) C. J. Cox & Hedd., 2003: 40 (*Mielichhoferia porsildii*, 1904).
- Bryum rudimentale* B. H. Allen, 2002: 369. Replaced name: *Bryum insolitum* var. *brachycarpum* E. B. Bartram, 1934.
- Bryum setaceum* Jolycl., 1803: 751. Note: not in IOM 99–01; Ochyra and Lamy, Cryptog. Bryol. 22: 29–39. 2001, correct the citation used for this name in *Index Muscorum*.
- Bryum simplex* Jolycl., 1803: 751. Note: not in IOM 99–01; Ochyra and Lamy, Cryptog. Bryol. 22: 29–39. 2001, correct the citation used for this name in *Index Muscorum*.
- Bucklandiella* subsect. *Cucullaria* (Bednarek-Ochyra) Bednarek-Ochyra & Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 143 (*Racomitrium* subsect. *Cucullaria*, 1995).
- Bucklandiella* subsect. *Diaphanae* (Bednarek-Ochyra & Ochyra) Bednarek-Ochyra & Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 143 (*Racomitrium* subsect. *Diaphana*, 1996).
- Bucklandiella* sect. *Emersae* (Bednarek-Ochyra) Bednarek-Ochyra & Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 142 (*Racomitrium* sect. *Emersae*, 1995).
- Bucklandiella* subsect. *Grimmiaeformes* (Bednarek-Ochyra) Bednarek-Ochyra & Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 143 (*Racomitrium* subsect. *Grimmiiformia*, 1995).
- Bucklandiella* subsect. *Horridae* (Bednarek-Ochyra & Ochyra) Bednarek-Ochyra & Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 143 (*Racomitrium* subsect. *Horrida*, 1996).
- Bucklandiella* sect. *Laevifoliae* (Kindb.) Bednarek-Ochyra & Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 142 (*Racomitrium* sect. *Laevifolia*, 1897).
- Bucklandiella* sect. *Lawtonia* (Bednarek-Ochyra) Bednarek-Ochyra & Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 143 (*Racomitrium* sect. *Lawtonia*, 1995).
- Bucklandiella* sect. *Marginatae* (Bednarek-Ochyra) Bednarek-Ochyra & Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 143 (*Racomitrium* sect. *Marginata*, 1995).
- Bucklandiella* sect. *Ptychophyllae* (Bednarek-Ochyra) Bednarek-Ochyra & Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 143 (*Racomitrium* sect. *Ptychophylla*, 1995).
- Bucklandiella* sect. *Subsecundae* (Bednarek-Ochyra) Bednarek-Ochyra & Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 143 (*Racomitrium* sect. *Subsecunda*, 1995).
- Bucklandiella* sect. *Sudeticae* (Bednarek-Ochyra) Bednarek-Ochyra & Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 143 (*Racomitrium* sect. *Sudetica*, 1995).
- Bucklandiella affinis* (Schleich. ex F. Weber & D. Mohr) Bednarek-Ochyra & Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 144 (*Trichostomum affine*, 1807).
- Bucklandiella afoninae* (Frisvoll) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 144 (*Racomitrium afoninae*, 1988).
- Bucklandiella albipilifera* (Gao Chien & Cao Tong in Gao Chien, Zhang Guang-chu & Cao Tong) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 144 (*Racomitrium albipiliferum*, 1981).
- Bucklandiella albipilifera* var. *lorifolia* (Frisvoll) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 144 (*Racomitrium capillifolium* var. *lorifolium*, 1988).
- Bucklandiella angustifolia* (Broth.) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 144 (*Racomitrium angustifolium*, 1929).
- Bucklandiella brevipes* (Kindb.) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 144 (*Racomitrium brevipes*, 1890).
- Bucklandiella compactula* (Müll. Hal.) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 144 (*Grimmia compactula*, 1898).
- Bucklandiella crispipila* (Taylor) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 144 (*Trichostomum crispipilum*, 1846).
- Bucklandiella crispula* (Hook. f. & Wilson) Bednarek-Ochyra & Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 144 (*Dryptodon crispulus*, 1844). Note: basionym cited as “*Didimodon crispulus*.”
- **Bucklandiella cucullata* Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 144, invalid, orthographic variant. ≡ *Bucklandiella cucullatula* Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003.
- Bucklandiella cucullatifolia* (Hampe) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 144 (*Racomitrium cucullatifolium*, 1863).
- Bucklandiella cucullatula* (Broth.) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 144 (*Racomitrium cucullatulum*, 1929), “*cucullata*.”
- Bucklandiella cylindropyxis* (Müll. Hal.) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 144 (*Grimmia cylindropyxis*, 1898).
- Bucklandiella decurrens* (Dixon in Christoph.) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 144 (*Racomitrium decurrens*, 1960).

- Bucklandiella defoliata* (Müll. Hal.) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 144 (*Grimmia defoliata*, 1883).
- Bucklandiella didyma* (Mont.) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 145 (*Grimmia didyma*, 1845).
- Bucklandiella elliptica* (Turner) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 145 (*Dicranum ellipticum*, 1804).
- Bucklandiella emersa* (Müll. Hal.) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 145 (*Grimmia emersa*, 1851).
- Bucklandiella fuscescens* (Wilson) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 145 (*Racomitrium fuscescens*, 1857).
- Bucklandiella fuscolutea* (Cardot) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 145 (*Racomitrium fuscoluteum*, 1916).
- Bucklandiella gracillima* (Dixon in Christoph.) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 145 (*Racomitrium gracillimum*, 1960).
- Bucklandiella grimmiioides* (Herzog) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 145 (*Racomitrium grimmiioides*, 1957).
- Bucklandiella heterosticha* (Hedw.) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 145 (*Trichostomum heterostichum*, 1801).
- Bucklandiella heterostichoides* (Cardot) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 145 (*Racomitrium heterostichoides*, 1905).
- Bucklandiella himalayana* (Mitt.) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 145 (*Grimmia himalayana*, 1859).
- Bucklandiella joseph-hookeri* (Frisvoll) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 145 (*Racomitrium joseph-hookeri*, 1988).
- Bucklandiella laeta* (Besch. & Cardot) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 145 (*Racomitrium laetum*, 1908).
- Bucklandiella lamprocarpa* (Müll. Hal.) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 145 (*Grimmia lamprocarpa*, 1849).
- Bucklandiella lawtonae* (Ireland) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 145 (*Racomitrium lawtonae*, 1970).
- Bucklandiella lepervanchei* (Besch.) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 145 (*Racomitrium lepervanchei*, 1880).
- Bucklandiella lusitanica* (Ochyra & Sérgio) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 146 (*Racomitrium lusitanicum*, 1992).
- Bucklandiella macounii* (Kindb.) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 146 (*Racomitrium macounii*, 1889).
- Bucklandiella macounii* fo. *alpina* (E. Lawton) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 146 (*Racomitrium sudeticum* fo. *alpinum*, 1971), “*alpinum*.”
- Bucklandiella membranacea* (Mitt.) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 146 (*Grimmia membranacea*, 1876).
- Bucklandiella microcarpa* (Hedw.) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 146 (*Trichostomum microcarpum*, 1801).
- Bucklandiella microcarpa* fo. *afoninae* (Frisvoll) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 146 (*Racomitrium microcarpum* fo. *afoninae*, 1988).
- Bucklandiella minuta* (Müll. Hal.) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 146 (*Grimmia minuta*, 1883).
- Bucklandiella nitidula* (Cardot) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 146 (*Racomitrium nitidulum*, 1908).
- Bucklandiella obesa* (Frisvoll) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 146 (*Racomitrium obesum*, 1988).
- Bucklandiella obtusa* (Brid.) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 146 (*Trichostomum obtusum*, 1801).
- Bucklandiella obtusa* fo. *trichophora* (Frisvoll) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 146 (*Racomitrium obtusum* fo. *trichophorum*, 1988).
- Bucklandiella occidentalis* (Renauld & Cardot) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 146 (*Racomitrium heterostichum* var. *occidentale*, 1890).
- Bucklandiella ochracea* (Müll. Hal.) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 146 (*Grimmia ochracea*, 1883).
- Bucklandiella orthotrichacea* (Müll. Hal.) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 146 (*Grimmia orthotrichacea*, 1883).
- Bucklandiella pachydietyon* (Cardot) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 147 (*Racomitrium pachydietyon*, 1908).
- Bucklandiella pacifica* (Ireland & J. R. Spence) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 147 (*Racomitrium pacificum*, 1987).
- Bucklandiella procumbens* (Mitt.) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 147 (*Grimmia procumbens*, 1882).
- Bucklandiella ptychophylla* (Mitt. in Linds.) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 147 (*Grimmia ptychophylla*, 1866).
- Bucklandiella rupestris* (Hook. f. & Wilson) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 147 (*Dryptodon rupestris*, 1844).
- Bucklandiella seychellarum* (Besch.) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 147 (*Racomitrium seychellarum*, 1880), “*seychellara*.”

- Bucklandiella striatipila* (Cardot) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 147 (*Racomitrium striatipilum*, 1905).
- Bucklandiella suborthotrichacea* (Müll. Hal.) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 147 (*Grimmia suborthotrichacea*, 1883).
- Bucklandiella subsecunda* (Hook. & Grev. in Hook.) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 147 (*Trichostomum subsecundum*, 1836).
- Bucklandiella subulifolia* (Cardot) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 147 (*Racomitrium subulifolium*, 1908).
- Bucklandiella sudetica* (Funck) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 147 (*Trichostomum sudeticum*, 1820).
- Bucklandiella sudetica* fo. *kindbergii* (Frisvoll) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 147 (*Racomitrium sudeticum* fo. *kindbergii*, 1988).
- Bucklandiella sudetica* fo. *terricola* (Frisvoll) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 147 (*Racomitrium sudeticum* fo. *terricola*, 1988).
- Bucklandiella valdon-smithii* (Ochyra & Bednarek-Ochyra) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 148 (*Racomitrium valdon-smithii*, 1999).
- Bucklandiella venusta* (Frisvoll) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 147 (*Racomitrium venustum*, 1988).
- Bucklandiella verrucosa* (Frisvoll) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 148 (*Racomitrium verrucosum*, 1988).
- Bucklandiella verrucosa* var. *emodensis* (Frisvoll) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 148 (*Racomitrium verrucosum* var. *emodense*, 1988).
- Bucklandiella visnadiae* (W. R. Buck) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 148 (*Racomitrium visnadiae*, 1997).
- Bucklandiella vulcanicola* (Frisvoll & Deguchi) Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 148 (*Racomitrium vulcanicola*, 1988).
- Buxbaumiidae Doweld, 2001: I.
- Calliergonaceae (Kanda) Vanderp. et al., 2002: 120 (Calliergonoideae, 1976 [1977]). Note: invalid, no description, in Vanderpoorten, Hedenäs, C. J. Cox & A. J. Shaw, Molec. Phylogenet. Evol. 23: 12. 2002.
- Calypstrochaeta apiculata* var. *spathulata* (Matteri) Matteri, 2003: 80 (*Eriopus apiculatus* var. *spathulatus*, 1975 [1976]).
- Calypstrochaeta lucida* (Thwaites & Mitt.) O'Shea, 2002: 126 (*Eriopus lucidus*, 1873).
- Campylidium* (Kindb.) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 182 (*Campylium* unranked. *Campylidium*, 1896).
- Campylidium calcareum* (Crundw. & Nyholm) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 182 (*Campylium calcareum*, 1962 [1963]).
- Campylidium creperum* (Mitt.) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 182 (*Stereodon creperus*, 1859).
- Campylidium hispidulum* (Brid.) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 182 (*Hypnum hispidulum*, 1812), “*hispidulum*.”
- Campylidium lacerulum* (Mitt.) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 182 (*Stereodon lacerulus*, 1859).
- Campylidium porphyreticum* (Müll. Hal.) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 182 (*Campylium porphyreticum*, 1898).
- Campylidium praegracile* (Mitt.) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 182 (*Ctenidium praegracile*, 1869).
- Campylidium quisqueyanum* (W. R. Buck) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 182 (*Campylium quisqueyanum*, 1988).
- Campylidium sommerfeltii* (Myrin) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 182 (*Hypnum sommerfeltii*, 1831).
- Campylidium squarrosobyssoides* (Müll. Hal.) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 182 (*Campylium squarrosobyssoides*, 1897).
- Campylidium trichocladum* (Taylor) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 182 (*Pterogonium trichocladum*, 1847).
- Campylieae (Kanda) Vanderp. et al., 2002: 120 (Campylieoideae, 1975 [1976]).
- Campylinae Vanderp. et al., 2002b: 633. Note: invalid, as “Campylinae,” no Latin description, in Vanderp. et al., Taxon 51: 120. 2002.
- *Campylopoideae Broth. in Engl. & Prantl, 1924: 180, *illegitimate, type of earlier name included, “Campylopoideae.” ≡ Dicranelloideae subfam. Lindb., 1878. Note: Brotherus’s formation of this name is clearly “based on an included genus” (*Code Art.* 19.1 and 18.1), *Campylopus*, although he used the wrong termination, which is to be corrected under Art. 32.5. Thus “Dicranaceae Schimp. subfam. Campylopoideae (Limpr.) . . . stat. et comb. nov.” by Ochyra, Cryptog. Bryol. 23: 347. 2002, is redundant. Names above the rank of genus are uninomials, and they should not be treated as combinations.
- Campylopus gemmiparus* Z. Iwats. et al., 2002: 175. f. 1–2.
- Campylopus pilifer* var. *simii* (Schelpe) J.-P. Frahm & Hedd., 2004: 113 (*Campylopus simii*, 1979).
- Campylopus subporodictyon* (Broth.) B. H. Allen & Ireland, 2002: 76 (*Dicranodontium subporodictyon*, 1929).
- Catoscopiales Ignatov & Ignatova, 2004: 942.
- Catoscopiineae Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 101.
- Chorisodontium speciosum* var. *wallisii* (Müll. Hal.) Ochyra, 2003a: 68 (*Dicranum wallisii*, 1874).
- Cinclidotus confertus* Lüth, 2002a: 12. f. 1–3.
- Cirriphyllum koponenii* (Ignatov in Ignatov, T. J. Kop. & D. H. Norris) Ignatov & Huttunen, 2002: 271 (*Brachythecium koponenii*, 1999).

- Cleistocarpidium japonicum* (Deguchi, Matsui & Z. Iwats.) K. L. Yip, 2004: 216 (*Pleuridium japonicum*, 1994).
- Codonoblepharon forsteri* (Dicks. ex With.) Goffinet in Goffinet et al., 2004: 286 (*Bryum forsteri*, 1801).
- Codriophorus* subsect. *Andicola* (Bednarek-Ochyra) Bednarek-Ochyra & Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 140 (*Racomitrium* subsect. *Andicola*, 1995).
- Codriophorus* sect. *Chrysei* (Bednarek-Ochyra) Bednarek-Ochyra & Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 140 (*Racomitrium* sect. *Chrysea*, 1995).
- Codriophorus* sect. *Fascicularia* (Bednarek-Ochyra) Bednarek-Ochyra & Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 140 (*Racomitrium* sect. *Fascicularia*, 1995).
- Codriophorus* subsect. *Hydrophilus* (Bednarek-Ochyra) Bednarek-Ochyra & Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 140 (*Racomitrium* subsect. *Hydrophilus*, 1995).
- Codriophorus* sect. *Piliferi* (Bednarek-Ochyra) Bednarek-Ochyra & Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 140 (*Racomitrium* sect. *Pilifera*, 1995).
- Codriophorus aduncooides* (Bednarek-Ochyra) Bednarek-Ochyra & Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 140 (*Racomitrium aduncooides*, 1999).
- Codriophorus anomodontoides* (Cardot) Bednarek-Ochyra & Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 140 (*Racomitrium anomodontoides*, 1908).
- Codriophorus aquaticus* (Brid. ex Schrad.) Bednarek-Ochyra & Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 140 (*Trichostomum aquaticum*, 1803).
- Codriophorus brevisetus* (Lindb.) Bednarek-Ochyra & Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 140 (*Racomitrium brevisetum*, 1872).
- Codriophorus carinatus* (Cardot) Bednarek-Ochyra & Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 140 (*Racomitrium carinatum*, 1908).
- Codriophorus corrugatus* Bednarek-Ochyra, 2004: 377.
- Codriophorus depressus* (Lesq.) Bednarek-Ochyra & Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 140 (*Racomitrium depressum*, 1868).
- Codriophorus dichelymoides* (Herzog) Bednarek-Ochyra & Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 141 (*Racomitrium dichelymoides*, 1934).
- Codriophorus fascicularis* (Hedw.) Bednarek-Ochyra & Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 141 (*Trichostomum fasciculare*, 1801).
- Codriophorus hespericus* (Sérgio, J. Muñoz & Ochyra) Bednarek-Ochyra & Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 141 (*Racomitrium hespericum*, 1995).
- Codriophorus laevigatus* (A. Jaeger) Bednarek-Ochyra & Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 141 (*Racomitrium laevigatum*, 1874).
- Codriophorus mollis* (Cardot) Bednarek-Ochyra & Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 141 (*Racomitrium molle*, 1908).
- Codriophorus norrisii* (Bednarek-Ochyra & Ochyra) Bednarek-Ochyra & Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 141 (*Racomitrium norrisii*, 2000).
- Codriophorus papeetensis* (Besch.) Bednarek-Ochyra & Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 141 (*Racomitrium papeetense*, 1894), “*papeetense*.”
- Codriophorus ryszardii* (Bednarek-Ochyra) Bednarek-Ochyra & Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 141 (*Racomitrium ryszardii*, 2000).
- Codriophorus varius* (Mitt.) Bednarek-Ochyra & Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 141 (*Grimmia varia*, 1864).
- Cratoneuroideae (Mönk. in Rabenh.) Mönk. in Rabenh. et al., 2002: 120 (Cratoneuraceae, 1927).
- Cratoneuron taihangense* Zhao Jian-cheng, Li Xiu-qin, Han Liu-fu in Zhao Jian-cheng, Li Xiu-qin, Han Liu-fu & Liu Bao-chen, 2001: 104. f. 1–16. Note: not in IOM 99–01.
- Ctenidium subrectifolium* (Brid.) W. R. Buck & B. H. Allen, 2004: 38 (*Hypnum subrectifolium*, 1827).
- Cyclodictyon provectum* W. R. Buck in Parolly et al., 2004: 283. f. 2.
- Dacryophyllum* Ireland, 2004: 70. Original placement: Hypnaceae.
- Dacryophyllum falcifolium* Ireland, 2004: 70. f. 1.
- Dendrohypopterygium* Kruijer, 2002: 102. Original placement: Hypopterygiaceae.
- Dendrohypopterygium arbuscula* (Brid.) Kruijer, 2002: 111 (*Hypopterygium arbuscula*, 1827).
- Dendrohypopterygium filiculiforme* (Hedw.) Kruijer, 2002: 105 (*Leskea filiculaeformis*, 1801).
- Dicranella* sect. *Anisothecium* (Kindb.) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 108 (*Dicranella* unranked. *Anisothecium*, 1897).
- Dicranidae (W. Frey in W. Frey, Hurka & Oberw.) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 104 (Dicrananae, 1977). Note: invalid, no Latin description, in Doweld, Prosyllabus Tracheophyt. I. 2001.
- Dicranoloma macrodon* (Hook.) La Farge-England, 2002 [2003]c: 619 (*Dicranum macrodon*, 1841).
- Dicranum* sect. *Convolutifolia* (Kindb.) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 107 (*Dicranum* unranked. *Convolutifolia*, 1897).
- Dicranum* sect. *Fuscescentiformia* (Kindb.) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 106 (*Dicranum* unranked. *Fuscescentiformia*, 1897).
- Dicranum transsylvanicum* Lüth, 2002b: 18. f. 1–2.
- Didymodon eckeliae* R. H. Zander, 2001 [2002]: 298.
- Didymodon erosus* J.A. Jimenez & J. Guerra in J.A. Jimenez et al., 2004: 502. f. 1–2.
- Didymodon murrayae* Otnyukova, 2002: 345. f. 6.
- Didymodon paramicola* (H. Rob.) O. Werner, J.A. Jimenez & Ros, 2004: 220 (*Kingiobryum paramicola*, 1967).

- Diobelonella* Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 110. Original placement: Dicranaceae.
- Diobelonella palustris* (Dicks.) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 110 (*Bryum palustre*, 1801). Original placement: Dicranaceae.
- Diphysciidae (M. Fleisch.) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 100 (Diphysciales, 1908).
- Diphyscium kashmirensis* (H. Rob.) Magombo, 2002: 502 (*Theriotia kashmirensis*, 1965).
- Diphyscium lorifolium* (Cardot) Magombo, 2002: 502 (*Theriotia lorifolia*, 1904).
- Diphyscium pilmaiquen* (Crosby) Magombo, 2002: 503 (*Florschuetzia pilmaiquen*, 1977).
- Diphyscium tamasii* B. C. Tan & Ninh, 2003: 88.
- Distichophyllum obtusifolium* var. *vuquangiense* B. C. Tan & Ninh, 2003: 89.
- Dixonia orientalis* (Mitt.) H. Akiyama & Tsubota, 2004: 236 (*Stereodon orientalis*, 1859).
- Donrichardsia patulifolia* (Cardot & Thér.) Ignatov & Huttunen, 2002: 274 (*Rhynchostegium patulifolium*, 1911).
- Drepanocladinae (Kanda) Vanderp. et al., 2002: 120 (Drepanocladoideae, 1976 [1977]).
- Drepanocladus* sect. *Sendtmeriorum* (G. Roth) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 179 (*Drepanocladus* unranked. *Sendtmeriorum*, 1908), “*Sendtneri*.”
- Dryptodon* sect. *Elongati* Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 124.
- Dryptodon* sect. *Pulvinati* (Bruch & Schimp. in B.S.G.) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 124 (*Grimmia* sect. *Pulvinatae*, 1845).
- Dryptodon* sect. *Torquati* (I. Hagen) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 125 (*Grimmia* sect. *Torquatae*, 1909).
- Dryptodon* sect. *Trichophylli* (Bruch & Schimp. in B.S.G.) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 124 (*Grimmia* sect. *Trichophyllae*, 1845).
- Dryptodon arcuatifolius* (Kindb.) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 121 (*Grimmia arcuatifolia*, 1889).
- Dryptodon austrofunalis* (Müll. Hal.) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 121 (*Grimmia austrofunalis*, 1898).
- Dryptodon bicolor* (Herzog) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 121 (*Grimmia bicolor*, 1909).
- Dryptodon brachydietyon* (Cardot) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 121 (*Racomitrium patens* var. *brachydietyon*, 1908).
- Dryptodon capillatus* (De Not.) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 122 (*Grimmia capillata*, 1836).
- Dryptodon curvisetus* (Bouman) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 122 (*Grimmia curviseta*, 1991).
- Dryptodon dissimulatus* (E. M. Maier) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 122 (*Grimmia dissimulata*, 2002).
- Dryptodon fuscoluteus* (Hook.) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 122 (*Grimmia fuscolutea*, 1818).
- Dryptodon handelii* (Broth.) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 122 (*Grimmia handelii*, 1924).
- Dryptodon herzogii* (Broth. in Herzog) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 122 (*Grimmia herzogii*, 1916).
- Dryptodon humilis* (Mitt.) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 122 (*Grimmia humilis*, 1869).
- Dryptodon indicus* (Dixon & P. de la Varde) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 122 (*Trigonodictyon indicum*, 1928).
- Dryptodon jacuticus* (Ignatova et al.) Ochyra, 2004b: 440 (*Grimmia jacutica*, 2003).
- Dryptodon leibergii* (Par.) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 122 (*Grimmia leibergii*, 1896).
- Dryptodon lesherae* (Grevén) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 122 (*Grimmia lesherae*, 2003).
- Dryptodon macrotheca* (Mitt.) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 122 (*Grimmia macrotheca*, 1859).
- Dryptodon mauiensis* (Grevén) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 122 (*Grimmia mauiensis*, 2003).
- Dryptodon maunakeaensis* (Grevén) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 122 (*Grimmia maunakeaensis*, 2003).
- Dryptodon meridionalis* (Müll. Hal.) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 122 (*Grimmia trichophylla* var. *meridionalis*, 1849).
- Dryptodon molestus* (J. Muñoz) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 123 (*Grimmia molesta*, 1999).
- Dryptodon navicularis* (Herzog) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 123 (*Grimmia navicularis*, 1909).
- Dryptodon nepalensis* (Mitt.) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 123 (*Grimmia nepalensis*, 1859).
- Dryptodon nutans* (Bruch in F. A. Müll.) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 123 (*Grimmia nutans*, 1829).
- Dryptodon ochyrianus* (J. Muñoz) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 123 (*Grimmia ochyriana*, 1998).
- Dryptodon olneyi* (Sull. in Sull. & Lesq.) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 123 (*Grimmia olneyi*, 1856).
- Dryptodon orbicularis* (Bruch in Wilson) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 123 (*Grimmia orbicularis*, 1844).
- Dryptodon percarinatus* (Dixon & Sakurai in Sakurai) Ochyra & Żarnowiec in Ochyra, Żarnowiec &

- Bednarek-Ochyra, 2003: 123 (*Didymodon percarinatus*, 1936), “*percarinatus*.”
- Dryptodon pilifer* (P. Beauv.) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 123 (*Grimmia pilifera*, 1805), “*piliferus*.”
- Dryptodon pseudoanodon* (Deguchi) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 123 (*Grimmia pseudoanodon*, 1987).
- Dryptodon pullus* (Cardot) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 123 (*Grimmia pulla*, 1909).
- Dryptodon reduncus* (Wilson ex Mitt.) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 123 (*Grimmia redunca*, 1859).
- Dryptodon tortuosus* (Hook. f. & Wilson) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 123 (*Grimmia tortuosa*, 1844).
- †*Dwykea* J. M. Anderson & H. M. Anderson, 1985: 95. Note: not in IOM 63–89.
- †*Dwykea goedeboopensis* J. M. Anderson & H. M. Anderson, 1985: 95. Note: not in IOM 63–89.
- Ectropothecium plumigerum* (Broth.) Hedenäs in O’Shea et al., 2003: 166 (*Isopterygium plumigerum*, 1897).
- Ecalyptidae Vitt, Goffinet & Hedd. ex Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 103.
- Eucamptodontopsis aberrans* (J.-P. Frahm) M. J. Price, 2002c: 299 (*Holomitrium aberrans*, 1994).
- Eucamptodontopsis mcphersonii* (B. H. Allen) M. J. Price, 2002c: 304 (*Eucamptodontopsis brittoniae* var. *mcphersonii*, 1994).
- Eurhynchia delphus* Ignatov, Huttunen & T. J. Kop. in Ignatov & Huttunen, 2002: 263. Original placement: Brachytheciaceae.
- Eurhynchia delphus eustegia* (Besch.) Ignatov & Huttunen, 2002: 264 (*Brachythecium eustegium*, 1893).
- Eurhynchiastrum* Ignatov & Huttunen, 2002: 260. Original placement: Brachytheciaceae.
- Eurhynchiastrum pulchellum* (Hedw.) Ignatov & Huttunen, 2002: 262 (*Hypnum pulchellum*, 1801).
- Eurhynchiastrum pulchellum* var. *diversifolium* (Schimp. in B.S.G.) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 172 (*Eurhynchium diversifolium*, 1854).
- Eurhynchiastrum pulchellum* var. *praecox* (Hedw.) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 173 (*Hypnum praecox*, 1801).
- Eurhynchium filiforme* (Müll. Hal. in Levier) You F. Wang & Hu Ren-liang in You F. Wang et al., 2003: 275 (*Rhynchostegium subspeciosum* var. *filiforme*, 1906).
- Eurhynchium longirameum* (Müll. Hal.) You F. Wang & Hu Ren-liang in You F. Wang et al., 2003: 277 (*Rhynchostegium longirameum*, 1898).
- †*Eurohypnum revolutum* J.-P. Frahm, 2004b: 92.
- Fabronia angustifolia* Gao Chien & Fu Xing in Wu Pan-cheng, 2002: 88.
- Fallaciella robusta* Tangney & Fife, 2003: 124. f. 2.
- Fissidens* sect. *Sarawakia* (Müll. Hal.) Purs. & Brugg.-Nann., 2004: 14 (*Conomitrium* sect. *Sarawakia*, 1900).
- Fissidens cagoui* Fr. Müll., Purs. & Brugg.-Nann., 2003 [2004]: 578. f. 1–15.
- Fissidens crispulus* var. *robinsonii* (Broth.) B. C. Tan & M.-S. Choy, 2002: 47 (*Fissidens robinsonii*, 1918).
- Fissidens ellipticoides* Brugg.-Nann. & Kürschner, 2004: 107.
- Fissidens fujiensis* Tad. Suzuki & Z. Iwats. in Z. Iwats. & Tad. Suzuki, 2002: 169. f. 3, 5.
- Fissidens neomagofukui* Z. Iwats. & Tad. Suzuki, 2002: 165. f. 1, 5.
- Fissidens palmifolius* var. *semilimbatus* Brugg.-Nann., 2004: 313.
- Fissidens pseudoaldelphinus* Z. Iwats. & Tad. Suzuki, 2002: 167. f. 2, 5.
- Fissidens pseudoceylonensis* B. C. Tan & M.-S. Choy, 2002: 48.
- Fissidens unipapillosus* Brugg.-Nann., 2004: 309.
- Fissidens weirii* var. *bistratosus* W. R. Buck, 2003: 18.
- Fontinalis pennata* (Hedw.) Jolycl., 1803: 747 (*Neckera pennata*, 1801). Note: not in IOM 99–01; Ochyra and Lamy, Cryptog. Bryol. 22: 29–39. 2001, correct the citation used for this name in *Index Muscorum*.
- Funariidae (W. Frey in W. Frey, Hurka & Oberw.) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 100 (Funarianae, 1977).
- Grimmia dissimulata* E. M. Maier, 2002: 282. f. 1, 5.
- Grimmia exquisita* J. Muñoz, 2002: 315. f. 1–2.
- Grimmia jacutica* Ignatova et al., 2003: 5. f. 1.
- Grimmia lesherae* Greven, 2003: 130.
- Grimmia mauiensis* Greven, 2003: 148.
- Grimmia maunakeaensis* Greven, 2003: 150.
- Grimmia meridionalis* (Müll. Hal.) E. M. Maier, 2002: 291 (*Grimmia trichophylla* var. *meridionalis*, 1849).
- Grimmia nevadensis* Greven, 2002: 273. f. 1, “nevadense.”
- Grimmia serrana* J. Muñoz, Shevock & D. R. Toren, 2002: 143.
- Grimmia shastai* Greven, 2003: 208.
- Groutiella maracaibensis* (Broth.) B. H. Allen & Goffinet in B. H. Allen, 2002: 544 (*Micromitrium maracaibense*, 1931).
- Groutiella reesei* (Vitt) B. H. Allen, 2002: 551 (*Groutiella chimborazensis* subsp. *reesei*, 1979).
- Groutiella tuberculata* B. H. Allen & I. H. Holz in B. H. Allen, 2002: 555.
- Guembelia bernoullii* (Müll. Hal.) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 127 (*Grimmia bernoullii*, 1897).
- Guembelia crassifolia* (Lindb. ex Broth.) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 127 (*Grimmia crassifolia*, 1892).
- Guembelia hamulosa* (Lesq.) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 127 (*Grimmia hamulosa*, 1868).
- Guembelia involucrata* (Cardot) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 127 (*Grimmia involucrata*, 1909).

- Guembelia khasiana* (Mitt.) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 127 (*Grimmia khasiana*, 1859).
- Guembelia kidderi* (James) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 127 (*Grimmia kidderi*, 1875).
- Guembelia laevigata* (Brid.) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 127 (*Campylopus laevigatus*, 1819 [1818]).
- Guembelia limprichtii* (Kern) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 127 (*Grimmia limprichtii*, 1897).
- Guembelia longirostris* (Hook.) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 127 (*Grimmia longirostris*, 1818).
- Guembelia macropetchaetialis* (Grev.) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 128 (*Grimmia macropetchaetialis*, 1998).
- Guembelia mammosa* (Gao Chien & Cao Tong in Gao Chien, Zhang Guang-chu & Cao Tong) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 128 (*Grimmia mammosa*, 1981).
- Guembelia nevadensis* (Grev.) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 128 (*Grimmia nevadensis*, 2002).
- Guembelia obtusolinealis* (Müll. Hal.) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 128 (*Grimmia obtusolinealis*, 1890).
- Guembelia serrana* (J. Muñoz, Shevock & D. R. Toren) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 128 (*Grimmia serrana*, 2002).
- Guembelia stenobasis* (Dixon in Christoph.) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 128 (*Grimmia stenobasis*, 1960).
- Guembelia teretinervis* (Limpr.) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 128 (*Grimmia teretinervis*, 1884).
- Guembelia unicolor* (Hook. in Grev.) Buyss., 1883: 63 (*Grimmia unicolor*, 1825). Note: not in *Index Muscorum*.
- Guembelia wilsonii* (Grev.) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 128 (*Grimmia wilsonii*, 1998).
- Gymnostomiella tuberculosa* (Renauld & Par.) Arts & Sollman, 2002: 103 (*Pottia tuberculosa*, 1902).
- Hedwigia ciliata* var. *stellata* (Hedenäs) J.-P. Frahm in J.-P. Frahm & W. Frey, 2004: 408 (*Hedwigia stellata*, 1994).
- Hedwigiales Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 155.
- Heterocladaceae Ignatov & Ignatova, 2004: 942.
- Holomitrium azuayensis* M. J. Price, 2002a: 241. f. 1.
- Homalothecioideae Ignatov & Huttunen, 2002: 258.
- Original placement: Brachytheciaceae.
- Hygroamblystegium humile* (P. Beauv.) Vanderp., Hedenäs & Goffinet in Vanderp. et al., 2003: 6 (*Hypnum humile*, 1805).
- Hygrohypnella* Ignatov & Ignatova, 2004: 942.
- Original placement: Scorpidiaceae.
- Hygrohypnella duriuscula* (De Not.) Ignatov & Ignatova, 2004: 839 (*Limnobium duriusculum*, 1869).
- Hygrohypnella ochracea* (Turner ex Wilson) Ignatov & Ignatova, 2004: 841 (*Hypnum ochraceum*, 1855).
- Hygrohypnella polaris* (Lindb.) Ignatov & Ignatova, 2004: 942 (*Hypnum polare*, 1867), “*polare*.”
- Hymenoloma alpinum* (Mitt.) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 114 (*Holomitrium alpinum*, 1859).
- Hymenoloma antarcticum* (Müll. Hal.) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 114 (*Blindia antarctica*, 1848).
- Hymenoloma austrocrispulum* (Müll. Hal.) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 114 (*Blindia austrocrispula*, 1885).
- Hymenoloma brevifolium* (Herzog) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 114 (*Dicranoweisia brevifolia*, 1938).
- Hymenoloma brevipes* (Müll. Hal. in Neumayer) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 114 (*Blindia brevipes*, 1890).
- Hymenoloma brevisetum* (Cardot) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 114 (*Dicranoweisia breviseta*, 1905).
- Hymenoloma compactum* (Schwägr.) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 114 (*Weissia compacta*, 1811).
- Hymenoloma conterminum* (Renauld & Cardot) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 114 (*Dicranoweisia contermina*, 1895).
- Hymenoloma crispulum* (Hedw.) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 114 (*Weissia crispula*, 1801).
- Hymenoloma dryptodontoides* (Müll. Hal.) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 114 (*Blindia dryptodontoides*, 1883).
- Hymenoloma funiculipes* (Cardot & Broth.) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 115 (*Dicranoweisia funiculipes*, 1923).
- Hymenoloma grimmiceum* (Müll. Hal. in Neumayer) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 115 (*Blindia grimmicea*, 1890).
- Hymenoloma indicum* (Wilson) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 115 (*Weissia indica*, 1857).
- Hymenoloma insulare* (Mitt.) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 115 (*Grimmia insularis*, 1876).
- Hymenoloma jugelliferum* (Dus.) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 115 (*Dicranoweisia jugellifera*, 1905).
- Hymenoloma macrosporum* (Reimers) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 115 (*Verrucidens macrosporus*, 1936).
- Hymenoloma subinclinatatum* (Müll. Hal. in Neumayer) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 115 (*Blindia subinclinata*, 1890).
- Hymenoloma subtortifolium* (Broth.) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 115 (*Blindia subtortifolia*, 1906).

- Hymenoloma tortifolium* (Hook. f. & Wilson) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 115 (*Weissia tortifolia*, 1844).
- Hymenostylium jacksharpii* (H. A. Crum) B. H. Allen, 2002: 82 (*Barbula jacksharpii*, 1984).
- †*Hypnites complanatus* J.-P. Frahm, 2004b: 98.
- †*Hypnites lanceolatus* J.-P. Frahm, 2004b: 97.
- †*Hypnodontopsis pilifera* J.-P. Frahm, 2004b: 86, “pilifer.”
- Hypnodontopsis spathulata* H. Akiyama & A. Tanaka, 2002: 132. f. 1–22.
- Hypnum aquaticum* (Hedw.) Jolycl., 1803: 752 (*Anictangium aquaticum*, 1801). Note: Ochyra and Lamy, Cryptog. Bryol. 22: 29–39. 2001, correct the citation used for this name in *Index Muscorum*.
- Hypnum julaceum* (Hedw.) Jolycl., 1803: 751 (*Pterigynandrum julaceum*, 1801). Note: not in IOM 99–01; Ochyra and Lamy, Cryptog. Bryol. 22: 29–39. 2001, correct the citation used for this name in *Index Muscorum*.
- Hypnum palaeocircinale* J.-P. Frahm, 2004b: 90.
- Kindbergia altaica* (Ignatov) Ignatov & Huttunen, 2002: 262 (*Eurhynchium altaicum*, 1998).
- Kindbergia dumosa* (Mitt.) Ignatov & Huttunen, 2002: 262 (*Hypnum dumosum*, 1859).
- Kindbergia squarriifolia* (Broth. ex Iisiba) Ignatov & Huttunen, 2002: 263 (*Eurhynchium squarriifolium*, 1935).
- Leptobryoideae Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 158.
- Leptodictyum wallacei* B. H. Allen & Magill, 2004: 377. f. 1.
- Leptodontium ulocalyx* var. *flagellaceum* (E. B. Bartram) B. H. Allen, 2002: 119 (*Leptodontium sulphureum* var. *flagellaceum*, 1928).
- Leratia exigua* (Sull. in A. Gray) Goffinet in Goffinet et al., 2004: 286 (*Orthotrichum exiguum*, 1856).
- Leratia obtusifolia* (Hook.) Goffinet in Goffinet et al., 2004: 286 (*Zygodon obtusifolius*, 1819).
- Lescuraea pallida* (Best) D. H. Norris & Shevock, 2004: 74 (*Pseudoleskea pallida*, 1900).
- Lescuraea setschwanica* (Broth.) Cao Tong & Wang Wen-he in Cao Tong, Gao Chien & Wang Wen-he in Wu Pan-cheng, 2002: 152 (*Pseudoleskea setschwanica*, 1924).
- Lescuraea yunnanensis* (Broth.) Cao Tong & Wang Wen-he in Cao Tong, Gao Chien & Wang Wen-he in Wu Pan-cheng, 2002: 154 (*Pseudoleskea yunnanensis*, 1924).
- Leskeodon caducifolius* W. R. Buck, A. J. Shaw & C. J. Cox, 2002: 178. f. 1–8.
- **Leucoloma* sect. *Rhacomitrioidea* P. de la Varde, 1950: 150, invalid, combined sectional-specific description. Note: not in *Index Muscorum*.
- Leucoloma chrysoasilare* subsp. *africana* La Farge-England, 2002 [2003]a: 531. f. 8. Note: invalid, no Latin description, in La Farge-England, Bryologist 101: 203. 1998.
- Leucoloma circinale* La Farge-England, 2002 [2003]b: 593. f. 1–2. Note: invalid, no Latin description, in La Farge-England, Bryologist 101: 203. 1998.
- Leucoloma entabeniense* (Magill in Magill & Schelpe) La Farge-England, 2002 [2003]c: 610 (*Dicranoloma entabeniense*, 1979), “entabiense”. Note: invalid, basionym not cited, in La Farge-England, Bryologist 101: 202. 1998.
- **Leucoloma entabiense* La Farge-England, 2002 [2003]b: 601, invalid, orthographic variant. ≡ *Leucoloma entabeniense* La Farge-England, 2002 [2003].
- Leucoloma madagascariense* La Farge-England, 2002 [2003]a: 544. f. 20. Note: invalid, no Latin description in La Farge-England, Bryologist 101: 204. 1998.
- Leucoloma marojenziense* La Farge-England, 2002 [2003]b: 601. f. 7–8. Original placement: ser. *Holomitrioidea*. Note: invalid, no Latin description, in La Farge-England, Bryologist 101: 203. 1998.
- Leucoloma membranaceum* La Farge-England, 2002 [2003]a: 568. f. 42. Note: invalid, no Latin description, in La Farge-England, Bryologist 101: 204. 1998.
- Leucoloma ochrobasilare* subsp. *longifolium* (Thér.) La Farge-England, 2002 [2003]a: 585 (*Leucoloma subtuberculosum* var. *longifolium*, 1926). Note: invalid, basionym not cited, in La Farge-England, Bryologist 101: 204. 1998.
- Lindbergia serrulata* Gao Chien, Cao Tong & Wang Wen-he in Cao Tong, Gao Chien & Wang Wen-he in Wu Pan-cheng, 2002: 130. f. 55.
- Macrodictyum latifolium* (E. B. Bartram in J. Jiménez Alm.) M. J. Price, 2002b: 136 (*Holomitrium wrightii* var. *latifolium*, 1954).
- Macromitrium mcphersonii* B. H. Allen, 2002: 599.
- Macromitrium xenizon* B. H. Allen & W. R. Buck in W. R. Buck, 2003: 82. f. 78.
- Metzleria novoguineensis* (Broth. & Geh.) Ochyra, 2002: 170 (*Dicranodontium novoguineense*, 1895).
- Mironia elongata* (Wilson in Mitt.) B. H. Allen, 2002: 131 (*Barbula elongata*, 1851).
- Mnium cirratum* (Hedw.) Jolycl., 1803: 748 (*Weissia cirrata*, 1801). Note: not in IOM 99–01; Ochyra and Lamy, Cryptog. Bryol. 22: 29–39. 2001, correct the citation used for this name in *Index Muscorum*.
- **Mnium ramosum* Huds. ex L. in Jolycl., 1803: 748, *illegitimate, later homonym. Earlier name: *Mnium ramosum* Hook., 1836. Note: not in IOM 99–01; Ochyra and Lamy, Cryptog. Bryol. 22: 29–39. 2001, correct the citation used for this name in *Index Muscorum*.
- **Mnium serpyllifolium* Jolycl., 1803: ???, *illegitimate, types of earlier names included. Note: R. Ochyra, in litt., confirms that Jolyclerc, who included the three Hedwigian specific names listed below, validated this name two years earlier than indicated in *Index Muscorum*.
- Mnium serpyllifolium* var. *cuspidatum* (Hedw.) Jolycl., 1803: 749 (*Mnium cuspidatum*, 1801). Note: not in IOM 99–01; Ochyra and Lamy, Cryptog. Bryol. 22: 29–39. 2001, correct the citation used for this name in *Index Muscorum*.
- Mnium serpyllifolium* var. *proliferum* Jolycl., 1803: 749. Note: not in IOM 99–01; Ochyra and Lamy,

- Cryptog. Bryol. 22: 29–39. 2001, correct the citation used for this name in *Index Muscorum*.
- Mnium serpyllifolium* var. *punctatum* (Hedw.) Jolycl., 1803: 749 (*Mnium punctatum*, 1801). Note: not in IOM 99–01; Ochyra and Lamy, Cryptog. Bryol. 22: 29–39. 2001, correct the citation used for this name in *Index Muscorum*.
- Mnium serpyllifolium* var. *undulatum* (Hedw.) Jolycl., 1803: 749 (*Mnium undulatum*, 1801). Note: not in IOM 99–01; Ochyra and Lamy, Cryptog. Bryol. 22: 29–39. 2001, correct the citation used for this name in *Index Muscorum*.
- Mnium setaceum* Jolycl., 1803: 748. Note: not in IOM 99–01; Ochyra and Lamy, Cryptog. Bryol. 22: 29–39. 2001, correct the citation used for this name in *Index Muscorum*.
- Mnium triquetrum* L. ex Jolycl., 1803: 749. Note: not in IOM 99–01; Ochyra and Lamy, Cryptog. Bryol. 22: 29–39. 2001, correct the citation used for this name in *Index Muscorum*.
- Niphotrichum* (Bednarek-Ochyra) Bednarek-Ochyra & Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 137 (*Racomitrium* subgen. *Niphotrichum*, 1995). Original placement: Grimmiaceae.
- Niphotrichum* sect. *Elongata* (Bednarek-Ochyra) Bednarek-Ochyra & Ochyra & Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 138 (*Racomitrium* sect. *Elongata*, 1995).
- Niphotrichum* subsect. *Ericioides* (Frisvoll) Bednarek-Ochyra & Ochyra & Ochyra, 2003: 138 (*Racomitrium* subsect. *Ericioides*, 1983).
- Niphotrichum* subsect. *Japonica* (Bednarek-Ochyra) Bednarek-Ochyra & Ochyra & Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 138 (*Racomitrium* subsect. *Japonica*, 1995).
- Niphotrichum* subsect. *Minima* (Bednarek-Ochyra) Bednarek-Ochyra & Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 138 (*Racomitrium* subsect. *Minima*, 1995).
- Niphotrichum barbuloides* (Cardot) Bednarek-Ochyra & Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 138 (*Racomitrium barbuloides*, 1908).
- Niphotrichum canescens* (Hedw.) Bednarek-Ochyra & Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 138 (*Trichostomum canescens*, 1801).
- Niphotrichum canescens* subsp. *latifolium* (Lange & C. E. O. Jensen) Bednarek-Ochyra & Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 138 (*Racomitrium canescens* var. *latifolium*, 1887).
- Niphotrichum elongatum* (Ehrh. ex Frisvoll) Bednarek-Ochyra & Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 138 (*Racomitrium elongatum*, 1983).
- Niphotrichum ericoides* (Brid.) Bednarek-Ochyra & Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 138 (*Trichostomum ericoides*, 1801).
- Niphotrichum japonicum* (Dozy & Molk.) Bednarek-Ochyra & Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 138 (*Racomitrium japonicum*, 1847).
- Niphotrichum muticum* (Kindb. in Macoun) Bednarek-Ochyra & Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 138 (*Racomitrium brevipes* var. *muticum*, 1890).
- Niphotrichum panschii* (Müll. Hal.) Bednarek-Ochyra & Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 138 (*Grimmia panschii*, 1873).
- Niphotrichum pygmaeum* (Frisvoll) Bednarek-Ochyra & Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 139 (*Racomitrium pygmaeum*, 1983).
- Ochyraea alpestris* (Sw. ex Hedw.) Ignatov & Ignatova, 2004: 904 (*Hypnum alpestre*, 1801).
- Ochyraea cochlearifolia* (Venturi in De Not.) Ignatov & Ignatova, 2004: 905 (*Limnobium cochlearifolium*, 1872).
- Ochyraea montana* (Lindb.) Ignatov & Ignatova, 2004: 942 (*Amblystegium montanum*, 1879).
- Ochyraea norvegica* (Schimp. in B.S.G.) Ignatov & Ignatova, 2004: 942 (*Limnobium norvegicum*, 1853).
- Ochyraea smithii* (Sw. in Lilj.) Ignatov & Ignatova, 2004: 942 (*Leskea smithii*, 1816).
- Oedipodiales (Schimp.) Goffinet & W. R. Buck, 2004: 232 (Oedipodiaceae, 1876).
- Oedipodiopsida (Schimp.) Goffinet & W. R. Buck, 2004: 232 (Oedipodiaceae, 1876).
- Orthodontium lignicola* (Broth.) Zhang Da-cheng in Li Xing-jiang, 2002: 385 (*Funaria lignicola*, 1929), “*ligniculum*.”
- Orthogrimmia* (Schimp.) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 118 (*Grimmia* subgen. *Orthogrimmia*, 1856). Original placement: Grimmiaceae.
- Orthogrimmia* sect. *Montanae* (I. Hagen) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 125 (*Grimmia* sect. *Montanae*, 1909).
- Orthogrimmia alpestris* (F. Weber & D. Mohr) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 125 (*Trichostomum pulvinatum* var. *alpestre*, 1807).
- Orthogrimmia arenaria* (Hampe) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 125 (*Grimmia arenaria*, 1836).
- Orthogrimmia argyrotricha* (Müll. Hal.) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 125 (*Grimmia argyrotricha*, 1890).
- Orthogrimmia asperitricha* (Dixon & Sainsbury) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 125 (*Grimmia asperitricha*, 1945).
- Orthogrimmia caespiticia* (Brid.) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 126 (*Campylopus caespiticus*, 1819 [1818]).
- Orthogrimmia donniana* (Sm.) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 126 (*Grimmia donniana*, 1804).
- Orthogrimmia grisea* (Cardot) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 126 (*Grimmia grisea*, 1906).
- Orthogrimmia mariniana* (Sayre) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 126 (*Grimmia mariniana*, 1955).
- Orthogrimmia montana* (Bruch & Schimp. in B.S.G.) Ochyra & Żarnowiec in Ochyra, Żarnowiec &

- Bednarek-Ochyra, 2003: 126 (*Grimmia montana*, 1845).
- Orthogrimmia nivalis* (Kindb.) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 126 (*Grimmia nivalis*, 1890).
- Orthogrimmia sessitana* (De Not.) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 126 (*Grimmia sessitana*, 1869).
- Orthogrimmia shastai* (Grev.) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 126 (*Grimmia shastai*, 2003).
- Orthogrimmia triformis* (Carestia & De Not.) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 126 (*Grimmia triformis*, 1866).
- Orthogrimmia ungeri* (Jur. in Unger & Kotschy) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 126 (*Grimmia ungeri*, 1865).
- Orthostichella versicolor* (Müll. Hal.) B. H. Allen & W. R. Buck, 2003: 140 (*Neckera versicolor*, 1850).
- Orthotrichidae (Dixon) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 155 (Orthotrichales, 1932).
- Orthotrichum aucklandicum* (Vitt) Goffinet in Goffinet et al., 2004: 287 (*Muelleriella aucklandica*, 1976).
- Orthotrichum crassifolium* subsp. *acutum* (Müll. Hal.) Goffinet in Goffinet et al., 2004: 288 (*Orthotrichum crassifolium* var. *acutum*, 1849).
- Orthotrichum jetteae* B. H. Allen, 2002: 639. Replaced name: *Orthomitrium tuberculatum* Lewinsky-Haapasaari & Crosby, 1996. Blocking name: *Orthotrichum tuberculatum* Mitt., 1869.
- Orthotrichum kellmanii* D. H. Norris, Shevock & Goffinet, 2004: 210.
- Orthotrichum leblebicii* Erdağ, Kürschner & Parolly, 2004: 518.
- Orthotrichum rhytiore* B. H. Allen, 2002: 639. f. 261.
- Orthotrichum schofieldii* (B. C. Tan & Jia Yu) B. H. Allen, 2002: 639 (*Orthomitrium schofieldii*, 1997).
- Orthotrichum speciosum* var. *brevisetum* F. Lara, Garilleti & Mazimpaka in Draper et al., 2003: 276. f. 2.
- Oxyrrhynchium hians* var. *rigidum* (Boulay) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 176 (*Hypnum praelongum* var. *rigidum*, 1872).
- Oxyrrhynchium laevisetum* (Geh.) Ignatov & Huttunen, 2002: 273 (*Eurhynchium laevisetum*, 1876).
- Oxyrrhynchium trichocladoides* (Ignatov in Ignatov, T. J. Kop. & D. H. Norris) Ignatov & Huttunen, 2002: 273 (*Eurhynchium trichocladoides*, 1999).
- Oxyrrhynchium vagans* (A. Jaeger) Ignatov & Huttunen, 2002: 273 (*Rhynchostegium vagans*, 1878).
- Papillaria subsemirtorta* Broth. ex Thér., 1929: 232. Note: not in *Index Muscroum*.
- Papillidiopsis aquatica* (Dixon) B.-C. Ho & B. C. Tan, 2002: 74 (*Rhaphidostichum aquaticum*, 1935).
- †*Parafunaria* Yang Rui-dong et al., 2004: 181.
- †*Parafunaria sinensis* Yang Rui-dong in Yang Rui-dong et al., 2004: 181.
- Pelekium microphyllum* (Schwägr.) T. J. Kop. & Touw, 2003: 131 (*Haplohymenium microphyllum*, 1829).
- Philonotis* sect. *Homomorphae* (Kindb.) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 165 (*Philonotis* unranked. *Homomorphae*, 1897).
- Phyllodon perplanicaulis* (Broth.) Kis, 2002: 163 (*Taxithelium perplanicaule*, 1897).
- Pilotrichella flexilis* fo. *nudiramulosa* (Müll. Hal.) B. H. Allen & Magill, 2003: 58 (*Pilotrichella nudiramulosa*, 1901).
- Pilotrichella reesei* B. H. Allen & Magill, 2003: 65.
- Pilotrichella vermiformis* B. H. Allen & Magill, 2003: 67.
- **Plagiomnium subintegrum* T. J. Kop. ex P. L. Uniyal, 1997: 40, invalid, basionym not cited. Note: not in IOM 96–98; cited as *Plagiomnium subintegrum* “(Card.) T. Kop.,” but Koponen apparently never made the combination.
- Plagiothecium* sect. *Philoscia* (Berk.) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 177 (*Philoscia*, 1863).
- Platydictya baicalensis* (Ignatov & Ochyra) Hedenäs & N. Pedersen, 2002: 325 (*Bardunovia baicalensis*, 1995).
- Platygyriella frahmii* (W. R. Buck) Arikawa, 2004: 148 (*Pylaisiella frahmii*, 1993).
- Platygyrium australe* (Dixon & Sainsbury) Arikawa, 2004: 147 (*Pylaisia australis*, 1933), “*australis*.”
- Pleurozium quitense* (Mitt.) B. H. Allen & Magill, 2003: 69 (*Meteorium quitense*, 1869).
- Pohlia* sect. *Apalodictyon* (Müll. Hal.) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 159 (*Bryum* sect. *Apalodictyon*, 1848).
- Pohlia* subgen. *Mniobryum* (Limpr. in Rabenh.) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 158 (*Mniobryum*, 1892).
- Pohlia hyaloperistoma* Zhang Da-cheng, Li Xing-jiang & Higuchi, 2002: 176. f. 1–2.
- Pohlia macrocarpa* Zhang Da-cheng, Li Xing-jiang & Higuchi, 2002: 181. f. 3–4.
- Polytrichadelphus magellanicus* subsp. *innovans* (Müll. Hal.) Stech, T. C. Pfeiff. & W. Frey, 2002b: 225 (*Catharinea innovans*, 1851).
- Polytrichastrum alpinum* var. *leptocarpum* (Broth.) Redf. & Wu Pan-cheng, 1986: 199 (*Polytrichum alpinum* var. *leptocarpum*, 1992). Note: not in IOM 63–89.
- Polytrichastrum alpinum* var. *secundifolium* (Broth.) Redf. & Wu Pan-cheng, 1986: 199 (*Polytrichum alpinum* var. *secundifolium*, 1929). Note: not in IOM 63–89.
- Polytrichidae (W. Frey in W. Frey, Hurka & Oberw.) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 97 (Polytrichanae, 1977).
- Polytrichopsida Doweld, 2001: I. Note: invalid, no Latin decription, in Pócs, Novenytan 2: 208. 1968.
- Porotrichum frahmii* (Enroth) Enroth, 2004: 77 (*Porothamnium frahmii*, 1996).
- Porotrichum stipitatum* (Mitt.) W. R. Buck, 2003: 119 (*Trachyloma stipitatum*, 1864).
- Porotrichum variifolioides* (De Sloover) Enroth, 2004: 77 (*Porothamnium variifolioides*, 1983).

- Powellia elliptica* (Renauld) Zanten, 2003: 26 (*Racopilum ellipticum*, 1898).
- Powellia pocsii* Zanten, 2003: 24. f. 1.
- Pseudocalliergon* sect. *Turgidae* (Smirnova) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 180 (*Drepanocladus* sect. *Turgidi*, 1962), “*Turgidi*.”
- Pseudohygrohypnum subeugyrium* (Renauld & Cardot) Ignatov & Ignatova, 2004: 845 (*Hypnum subeugyrium*, 1896).
- Pseudoleskeellaceae Ignatov & Ignatova, 2004: 942.
- Pseudosymblepharis guatemalensis* (E. B. Bartram) B. H. Allen, 2002: 150 (*Tortella guatemalensis*, 1946).
- Pseudosymblepharis richardsii* (E. B. Bartram) B. H. Allen, 2002: 153 (*Tortella richardsii*, 1946).
- Pseudotaxiphyllum obtusifolium* Z. Iwats. & B. C. Tan, 2004: 75. f. 1–2.
- Pseudotrismegistia* H. Akiyama & Tsubota, 2001 [2002]: 85. Original placement: Sematophyllaceae.
- Pseudotrismegistia undulata* (Broth. & A. Yasuda) H. Akiyama & Tsubota, 2001 [2002]: 86 (*Trismegistia undulata*, 1926).
- Pterogoniadelphus assimilis* (Müll. Hal.) Ochyra & Zijlstra, 2004: 810 (*Neckera assimilis*, 1850).
- Pterogoniadelphus esquirolii* (Thér.) Ochyra & Zijlstra, 2004: 811 (*Leucodon esquirolii*, 1907).
- Pterogoniadelphus hollermayeri* (Thér.) Ochyra & Zijlstra, 2004: 811 (*Felipponea hollermayeri*, 1935).
- Pterygoneurum papillosum* Oesau, 2003: 247. f. 1–2.
- Ptychomitrium gardneri* var. *angustifolium* (Nog.) Cao Tong in T. J. Kop. et al., 2004: 29 (*Ptychomitrium longisetum* var. *angustifolium*, 1954).
- Pylaisia frahmii* (W. R. Buck) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 183 (*Pylaisiella frahmii*, 1993).
- Pylaisia kunisawae* (Ando in Z. Iwats.) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 183 (*Pylaisiella kunisawae*, 1979). Note: redundant in T. Arikawa, J. Hattori Bot. Lab. 95: 114. 2004.
- Pylaisia levieri* (Müll. Hal.) Arikawa, 2004: 102 (*Giraldiella levieri*, 1898).
- Pylaisiadelphaceae Goffinet & W. R. Buck, 2004: 238.
- Racomitrioidae Ochyra & Bednarek-Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 135.
- Racomitrium patagonicum* Bednarek-Ochyra & Ochyra, 2003: 181. f. 1–3. Original placement: subgen. *Racomitrium*.
- Remyella brachypodia* (M. Fleisch.) Ignatov & Huttunen, 2002: 281 (*Rhynchostegiella brachypodia*, 1923).
- Remyella ramicola* (Broth. in Renauld & Cardot) Ignatov & Huttunen, 2002: 281 (*Rhynchostegium ramicola*, 1905).
- Remyella santosii* (E. B. Bartram) Ignatov & Huttunen, 2002: 281 (*Rhynchostegiella santosii*, 1958).
- Remyella sumatrana* (M. Fleisch.) Ignatov & Huttunen, 2002: 281 (*Rhynchostegiella sumatrana*, 1923).
- Remyella vriesei* (Dozy & Molk.) Ignatov & Huttunen, 2002: 281 (*Hypnum vriesei*, 1844).
- Rhizogoniales (M. Fleisch.) Goffinet & W. R. Buck, 2004: 235 (Rhizogoniineae, 1920).
- Rhizogoniae (M. Fleisch.) Goffinet & W. R. Buck, 2004: 235 (Rhizogoniineae, 1920).
- Rhynchostegielloideae Ignatov & Huttunen, 2002: 271. Original placement: Brachytheciaceae.
- Rhynchostegioideae Ignatov & Huttunen, 2002: 283. Original placement: Brachytheciaceae.
- Rhynchostegium arcticum* (I. Hagen) Ignatov & Huttunen, 2002: 285 (*Rhynchostegium murale* var. *arcticum*, 1904).
- Rhynchostegium psilopodium* Ignatov & Huttunen, 2002: 285. Replaced name: *Rhynchostegiella laeviseta* Broth., 1929. Blocking name: *Rhynchostegium laevisetum* Mitt., 1882.
- Rhytidiastrum* Ignatov & Ignatova, 2004: 942. Original placement: Hylocomiaceae.
- Rhytidiastrum japonicum* (Reimers in Reimers & Sakurai) Ignatov & Ignatova, 2004: 942 (*Rhytidiadelphus squarrosus* subsp. *japonicus*, 1931).
- Rhytidiastrum loreum* (Hedw.) Ignatov & Ignatova, 2004: 942 (*Hypnum loreum*, 1801).
- Rhytidiastrum squarrosum* (Hedw.) Ignatov & Ignatova, 2004: 751 (*Hypnum squarrosum*, 1801).
- Rhytidiastrum subpinnatum* (Lindb.) Ignatov & Ignatova, 2004: 749 (*Hylocomium subpinnatum*, 1867).
- Rosulabryum andicola* (Hook. in Kunth) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 162 (*Bryum andicola*, 1822).
- Rosulabryum canariense* (Brid.) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 162 (*Bryum canariense*, 1817).
- Rosulabryum densifolium* (Brid.) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 162 (*Bryum densifolium*, 1827).
- Rosulabryum donianum* (Grev.) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 162 (*Bryum donianum*, 1827).
- Rosulabryum elegans* (Nees in Brid.) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 162 (*Bryum elegans*, 1827).
- Rosulabryum goudotii* (Hampe) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 162 (*Bryum goudotii*, 1865).
- Rosulabryum huillense* (Welw. & Duby) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 162 (*Bryum huillense*, 1872).
- Rosulabryum keniae* (Müll. Hal.) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 162 (*Bryum keniae*, 1890).
- Rosulabryum laevifilum* (Syed) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 162 (*Bryum laevifilum*, 1973).
- Rosulabryum leptoneurum* (P. de la Varde) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 162 (*Bryum leptoneurum*, 1955).
- Rosulabryum macrophyllum* (Cardot & Broth.) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 162 (*Bryum macrophyllum*, 1923).
- Rosulabryum montevidense* (Broth. in Felipp.) Ochyra & Matteri, 2004: 160 (*Bryum montevidense*, 1929).
- Rosulabryum perlimbatum* (Cardot) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 162 (*Bryum perlimbatum*, 1905).

- Rosulabryum platyloma* (Schwägr.) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 162 (*Bryum platyloma*, 1816).
- Rosulabryum pseudocapillare* (Besch.) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 162 (*Bryum pseudocapillare*, 1876).
- Rosulabryum pycnophyllum* (Dixon) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 162 (*Bryum truncorum* var. *pycnophyllum*, 1922).
- Rosulabryum stirtonii* (Schimp.) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 163 (*Bryum stirtonii*, 1876).
- Rosulabryum subelegans* (Kindb.) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 163 (*Bryum subelegans*, 1903).
- Rosulabryum truncorum* (Brid.) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 163 (*Mnium truncorum*, 1817). Note: basionym cited as “*Bryum truncorum* Brid.”
- Rosulabryum viridescens* (Welw. & Duby) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 163 (*Bryum viridescens*, 1872).
- †*Saksenaphyllites* Chandra, 1995: 28. Note: not in IOM 93–95.
- †*Saksenaphyllites saksenae* Chandra, 1995: 28. f. 8–10. pl. 2. Note: not in IOM 93–95.
- Schistidium* sect. *Apocarpiformia* (Kindb.) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 131 (*Grimmia* unranked. *Alpestriformes*, 1897).
- Schistidium* sect. *Atrofuscus* Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 133.
- Schistidium* subgen. *Canicularia* Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 130.
- Schistidium* sect. *Conferta* (Vilh.) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 132 (*Schistidium* subgen. *Conferta*, 1922).
- Schistidium* sect. *Rivularia* Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 135.
- Schistidium* sect. *Robusta* Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 132.
- Schistidium* sect. *Tenera* Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 130.
- Schistidium deceptionense* Ochyra, Bednarek-Ochyra & Lewis-Smith, 2003 [2004]: 570. f. 1–35.
- Schistidium leptoneurum* Ochyra, 2004a: 126. f. 1.
- Schistidium lewis-smithii* Ochyra, 2003c: 364.
- Schistidium spinosum* H. H. Blom & Lüth, 2002: 122.
- Schistostegineae (M. Fleisch.) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 111 (*Schistostegales*, 1920).
- Schizymenium linearifolium* B. H. Allen, 2002: 416.
- Sciuro-hypnum brotheri* (Par.) Ignatov & Huttunen, 2002: 270 (*Brachythecium brotheri*, 1904).
- Sciuro-hypnum filirepens* (Dus.) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 174 (*Brachythecium filirepens*, 1905).
- Sciuro-hypnum flotowianum* (Sendtn.) Ignatov & Huttunen, 2002: 270 (*Hypnum flotowianum*, 1841).
- Sciuro-hypnum fuegianum* (Broth.) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 174 (*Brachythecium fuegianum*, 1909).
- Sciuro-hypnum glaciale* (Schimp. in B.S.G.) Ignatov & Huttunen, 2002: 270 (*Brachythecium glaciale*, 1853).
- Sciuro-hypnum glaciale* var. *dovrense* (Limpr.) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 174 (*Brachythecium glaciale* var. *dovrense*, 1896).
- Sciuro-hypnum glaciale* var. *gelidum* (Bryhn) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 174 (*Brachythecium gelidum*, 1899).
- Sciuro-hypnum hylotapetum* (N. L. Higinb. & B. L. Higinb.) Ignatov & Huttunen, 2002: 270 (*Brachythecium hylotapetum*, 1958).
- Sciuro-hypnum latifolium* (Kindb.) Ignatov & Huttunen, 2002: 270 (*Brachythecium latifolium*, 1888).
- Sciuro-hypnum majusculum* (M. E. Newton) Ignatov & Huttunen, 2002: 270 (*Brachythecium majusculum*, 1974).
- Sciuro-hypnum nelsonii* (Grout) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 174 (*Brachythecium nelsonii*, 1902).
- Sciuro-hypnum oedipodium* (Mitt.) Ignatov & Huttunen, 2002: 270 (*Hypnum oedipodium*, 1864).
- Sciuro-hypnum ornellanum* (Molendo) Ignatov & Huttunen, 2002: 270 (*Hypnum ornellanum*, 1865).
- Sciuro-hypnum plumosum* (Hedw.) Ignatov & Huttunen, 2002: 270 (*Hypnum plumosum*, 1801).
- Sciuro-hypnum populeum* (Hedw.) Ignatov & Huttunen, 2002: 270 (*Hypnum populeum*, 1801).
- Sciuro-hypnum pulchellum* (Broth. & Par.) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 175 (*Brachythecium pulchellum*, 1904).
- Sciuro-hypnum reflexum* (Starke in F. Weber & D. Mohr) Ignatov & Huttunen, 2002: 270 (*Hypnum reflexum*, 1807).
- Sciuro-hypnum starkii* (Brid.) Ignatov & Huttunen, 2002: 270 (*Hypnum starkii*, 1801).
- Sciuro-hypnum uematsui* (Broth. in Cardot) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 175 (*Brachythecium uematsui*, 1911).
- Sciuro-hypnum uncinifolium* (Broth. & Par.) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 175 (*Brachythecium uncinifolium*, 1904).
- Scorpidiaceae Ignatov & Ignatova, 2004: 942.
- Scouleriales (S. P. Churchill in V. A. Funk & D. R. Brooks) Goffinet & W. R. Buck, 2004: 233 (*Scouleriaceae*, 1981).
- Seligeria* sect. *Calcareae* Ochyra & Gos in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 112.
- Seligeria galinae* Mogensen & I. Goldberg, 2003: 41. f. 1–2.
- Seligeria patula* var. *alpestris* (T. Schauer) Gos & Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 113 (*Seligeria alpestris*, 1967 [1968]).
- Seligeria transylvania* Plam., 1998: 189. f. 59. Note: not in IOM 96–98.
- Sematophyllum allinckxiorum* W. R. Buck, 2003: 146 f. 131.
- Sematophyllum squarrosum* W. R. Buck, 2003: 146. f. 131.

- Sphagnophytina Doweld, 2001: I.
- Sphagnum alaskense* R. E. Andrus & Janssens, 2003: 435. f. 1, 3. Original placement: sect. *Sphagnum*.
- Sphagnum amazonense* H. A. Crum, 2002: 444. f. 24–28.
- Sphagnum denticulatum* var. *auriculatum* (Schimp.) Plam., 1998: 70 (*Sphagnum auriculatum*, 1857). Note: not in IOM 96–98.
- Sphagnum hertelianum* H. A. Crum, 2002: 441. f. 7–11.
- Sphagnum matogrossense* H. A. Crum, 2002: 441. f. 1–6. Original placement: sect. *Sphagnum*.
- Sphagnum mirum* Flatberg & Thinggaard, 2003 [2004]: 504. f. 1, 3–21, 26–29. Original placement: sect. *Squarrosa*.
- Sphagnum trollii* H. A. Crum, 2002: 443. f. 12–16.
- Sphagnum uruguayense* H. A. Crum, 2002: 443. f. 17–24.
- Splachnales (M. Fleisch.) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 156 (Splachnaceae, 1920).
- Splachnobryum temasekensis* B. C. Tan, B.-C. Ho & B. K.-B. Seah, 2004: 228. f. 9–17.
- Stereodon holmenii* (Ando) Ignatov & Ignatova, 2004: 855 (*Hypnum holmenii*, 1994).
- Streptocolea* (I. Hagen) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 118 (*Grimmia* subgen. *Streptocolea*, 1909). Original placement: Grimmiaceae.
- Streptocolea atrata* (Miel. ex Hornsch.) Ochyra & Żarnowiec in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 118 (*Grimmia atrata*, 1819).
- Syntrichia caninervis* var. *astrakhanica* Ignatov, Ignatova & Suragina, 2002: 335.
- Syntrichia caninervis* var. *pseudodesertorum* (Vondr.) M. T. Gallego in M. T. Gallego et al., 2002a: 649 (*Syntrichia handelii* var. *pseudodesertorum*, 1965 [1966]).
- Syntrichia subpapillosissima* (R. B. Pierrot in Bizot ex W. A. Kramer) M. T. Gallego & J. Guerra in M. T. Gallego et al., 2002b: 221 (*Tortula ruraliformis* var. *subpapillosissima*, 1980).
- Takakiidae Doweld, 2001: I. Note: validated by citation of description of Takakiaceae Hattori & Inoue, J. Hattori Bot. Lab. 19: 137. 1958.
- Takakiopsida (Crand.-Stotl.) Goffinet & W. R. Buck, 2004 [Sep 10]: 232 (Takakiophyta, 1986). Note: the name was used as a nomen nudum by Jia Yu, Wu Peng-cheng, Wang Mei-zhi & He Si, Acta Phytotax. Sin. 41: 350, 351. 2003, and provided with a Latin description by Wang Mei-zhi & Wu Pan-cheng, Fl. Bryophyt. Sin. 8: 447. 2004 [Dec].
- †*Talchirophyllites* Chandra, 1995: 24. Note: not in IOM 93–95.
- †*Talchirophyllites indicus* Chandra, 1995: 24. f. 4–6. pl. 3. Note: not in IOM 93–95.
- Taxiphyllum subretusum* (Thwaites & Mitt.) O’Shea, 2002: 126 (*Ectropothecium subretusum*, 1873).
- Tayloria grandis* (D. G. Long) Goffinet & A. J. Shaw, 2002: 207 (*Voitia grandis*, 1999).
- Tayloria immersa* (Goffinet) Goffinet, A. J. Shaw & C. J. Cox, 2004: 758 (*Brachymitrium immersum*, 1999).
- Tetrarhizidae Doweld, 2001: I. Note: validated by reference to description of “trib. (‘Tetrarhizeae’)” in Dumort., Anal. Fam. Pl. 69. 1829; redundant in Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, Biodiv. Poland 3: 98. 2003, where the name is based on Fleischer’s suborder Tetrarhizineae.
- Tetrarhizopsida (M. Fleisch.) Goffinet & W. R. Buck, 2004: 232 (Tetrarhizineae, 1908).
- Thamnobryum liesneri* B. H. Allen & S. P. Churchill, 2002: 155. f. 1.
- Thamnobryum rudolphianum* Mastracci, 2004: 143.
- Timmiales (M. Fleisch.) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 102 (Timmiales, 1920).
- Timmiidae Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 102.
- Tortula* sect. *Cuneifoliae* (Schimp.) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 153 (*Barbula* sect. *Cuneifoliae*, 1856).
- **Tortula subpapillosissima* J.-P. Frahm, 2003: 2, *not effectively published. Note: based on *T. ruraliformis* subsp. *subpapillosissima* Pierrot in Bizot ex W. Kramer.
- Trichosteleum fleischeri* B. C. Tan, B.-C. Ho & B. K.-B. Seah, 2004: 223. f. 1–8.
- Trichostomum* subgen. *Oxystegus* Broth. in Engl. & Prantl, 1902: 394. Note: Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, Biodiv. Poland 3: 150, proposed a new combination for this name, but Brotherus provided a brief diagnosis in 1902.
- Trichostomum crispulum* var. *pseudocrispulum* B. C. Tan & Ninh, 2003: 97.
- Trichostomum hondurensis* B. H. Allen, 2002: 192, “hondurensis.”
- Trismegistia maliauensis* H. Akiyama & Suleiman, 2003: 184.
- Ulota gymnostoma* Guo Shui-liang, Enroth & Virtanen, 2004: 459.
- †*Umariaphyllites* Chandra, 1995: 30. Note: not in IOM 93–95.
- †*Umariaphyllites acutus* Chandra, 1995: 30. f. 11–14. pl. 7. Note: not in IOM 93–95.
- Valdonia* Ochyra, 2003b: 88. Original placement: Seligeriaceae.
- Valdonia microcarpa* (Mitt.) Ochyra, 2003b: 92 (*Blindia microcarpa*, 1876).
- Vesicularia eligiana* W. R. Buck, 2003: 161. f. 144.
- Vittia bartlettii* (H. A. Crum & Steere) Hedenäs & J. Muñoz in Hedenäs, 2003: 36 (*Sciaromium bartlettii*, 1958).
- Vittia elimbata* Hedenäs, Vanderp. & Goffinet in Vanderp. et al., 2003: 9.
- Vittia salina* Hedenäs & J. Muñoz, 2002: 163. f. 1.
- Warnstorfia* subgen. *Sarmentypnum* (Tuom. & T. J. Kop.) Ochyra in Ochyra, Żarnowiec & Bednarek-Ochyra, 2003: 180 (*Sarmentypnum*, 1979).
- Zygodon elatus* (Dixon) Goffinet in Goffinet et al., 2004: 287 (*Leptodontopsis elata*, 1918).
- Zygodon fragilifolius* var. *papillosus* Goffinet in Goffinet et al., 2004: 287. Replaced name: *Leptodontopsis fragilifolia* Broth. in Mildbr., 1910.
- Zygodon macrocarpus* (Dixon) Goffinet in Goffinet et al., 2004: 287 (*Leptodontopsis macrocarpa*, 1938).

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