

## INDEX OF TAIWAN HEPATICAE

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**Abstract:** Many nomenclatural changes on Taiwan Hepaticae and lots of new additions have been reported since Lai and Wang-Yang published Index Bryoflorae Formosensis in 1976. Till now no bryoflora of Taiwan has been put out, more efforts must be made by the native bryologists. In order to make ease the identifications and promote the interest in studying local flora of Taiwan, the authors have compiled this index. The published literatures since 1897 to current year are consulted, nomenclatural changes follow the monographical and revisional work of late. 124 genera and 557 taxa totally are listed in this index.

### INTRODUCTION

It is useful and urgent to propose an index for the studies of Hepaticae of Taiwan, since Lai and Wang-Yang's "Index Bryoflorae Formosensis" was reported in 1976. So many nomenclatural changes owing to the monographic or revisional studies and additions new to this area were brought forth in the past eleven years.

The studies on Hepaticae of Taiwan could be traced back to the first report on *Marchantia cuneiloba* by Stephani in 1897 and his well-known "Species Hepaticarum" in 1898-1924, on 24 taxa including *Aneura formosensis* and others 19 new species in total, which according to the specimens collected accidentally by Faurie and others in the late 19 century. That period was so-called the European-dominant phase. Few studies and efforts were made.

From 1895 to 1945, in the fifty years Taiwan was under Japanese rule. Many fieldworks and researches on Taiwan Hepaticae were made in this period. Including *Bazzania spinosa* new to science and other four species were first reported by Japanese author, Sh. Okamura in 1916. None as Y. Horikawa had made so great contributions to the surveys on Taiwan Hepaticae. From 1929 to 1950, he had continually reported "Studies on the Hepaticae of Japan I-VIII", "Symbolae florum bryophytarum Orientali-Asiae 1-12" and "Contributions to the bryological flora of eastern Asia 1-6", focused on the Japanese and Taiwan Hepaticae. The most important and well-known literature was his "Monographia Hepaticarum Australi-Japonicarum" (1934), in which 246 species of Taiwan were discussed, for them *Plagiochasma sessilicephalum* and others 90 new species were involved.

1955, German authority Th. Herzog according to G. H. Schwabe's collections from Taiwan, Botel Tobago and Kwashyoto, reported 71 species, including 22 new taxa.

After Taiwan Retoration, Japanese bryologists have kept on going to Taiwan for collecting specimens of bryophytes and put out a lot of reports concerned this region, Shin (1963) and Iwatsuki & Mizutani (1983) were the represents of them. The prominent ones were reported by H. Inoue in 1967-88. So many taxa of Taiwan were identified and discussed. Recently K. Yamada, M.-J. Lai and others reported the Hepaticae of Chitou after surveying this Experimental Forest.

Till now, the native bryologists works on taxonomy of Hepaticae are still fewer. B. Y. Yang, died in 1973, was the represent of early phase after Taiwan Retorration, published the studies of some genera and bryological surveys in 1960-66. Later on, M.-J. Lai and S. Lin have kept on researching the taxonomy of bryophytes, especially the former who put out some surveys, additions and the "Index Bryoflorae Formosensis", in which 116 genera and 413 species were listed, in 1976. Besides, classification of Hepaticae has been carried forward otherwise, C. L. Wu of Tamkang University has been engaged in chemotaxonomy of Hepaticae for years.

However no bryoflora of Taiwan has been published till now. More efforts and studies must be made by native bryologists. In order to promote the advantage of identifications and stimulate the interest in studying the local flora. We have compiled this index.

This index was compiled merely according to the records of published literatures were appendaged after the binomials. Genera and species names are arranged alphabetically, the nomenclatural or taxonomic symonyms are combined to the latter binomials with equal sign. Items with an asterisk "\*" indicate the resources with plates or maps. Family names are not emphasized in this index, Schuster (1966) could be consulted. 124 genera and 557 species, subspecies, varieties and forms totally are listed here.

#### AN ALPHABEBETICAL LIST

- Acolea formosae* Steph. (1917) 6: 78.=*Cylindrocolea recurvifolia*.
- Acrobolbus ciliatus* (Mitt.) Schiffn. Kitagawa (1963a) 169, (1966) 141\*, (1979) 35; Hattori (1966) 510, (1968a) 276, (1970a) 71, (1975a) 224; Noguchi, Takaki et Inoue (1966) 381; Sharp et Hattori (1968) 312\*; Grolle (1969) 140; Iwatsuki et Mizutani (1972) 313\*; Inoue (1973) 112\*, (1981) 60; Lai et Wang-Yang (1976) 165; Schuster (1980) 549\*; Sharp (1987) 362\*.
- Acromastigum divaricatum* (Nees) Evans ex Reim. Hattori (1948b) 37, (1950) 37; Lai et Wang-Yang (1976) 165; Grolle (1978) 6\*; Mizutani et Chang (1986) 435.
- Adelanthus piliferus* Horikawa (1934) 184\*, (1939) 833\*; Hattori (1960) 1.=*Marsupidium knightii*.
- Adelanthus plagiochiloides* Horikawa (1934) 183\*; Hattori (1960) 1.=*Wettsteinia inversa*.
- Adelanthus rotundifolius* Horikawa (1934) 181\*; Hattori (1960) 1.=*Wettsteinia rotundifolius*.
- Alicularia scalaria* (Schrader) Corda Horikawa (1934) 141.=*Nardia scalaria*.
- Anastrepta orcadensis* (Hook.) Schiffn. Hattori (1942a) 487, (1968a) 276, (1975a) 211; Horikawa (1951a) 78; Ikegami (1957) 66; Kitagawa (1966) 120\*, (1963a) 170; Hattori (1966) 507, (1971a) 226; Noguchi, Takaki et Inoue (1966) 381; Iwatsuki et Mizutani (1972) 286\*; Lai et Wang-Yang (1976) 165; Lin (1981) 359; Lin et Tsai (1984) 96; Li *et al.* (1985) 489.
- Anastrepta sikkimensis* Steph. Horikawa (1934) 158.=*A. orcadensis*.
- Anastrophyllum acuminatum* (Horik.) Kitagawa (1963a) 171; Schuster (1969) 760; Lai et Wang-Yang (1976) 165.
- Anastrophyllum bidens* (Nees) Steph. Lai et Wang-Yang (1976) 165; Lai (1977) 154.
- Anastrophyllum speciosum* Horikawa (1934) 147\*, (1939) 819\*; Hattori (1960) 2; Kitagawa (1966) 144.=*Scaphophyllum speciosum*.
- Anastrophyllum striolatum* (Horik.) Kitagawa (1963a) 171; Lai et Wang-Yang (1976) 165.
- Aneura formosensis* Steph. (1917) 6: 27; Hattori (1960) 2.=*Riccardia formosensis*.
- Aneura pinguis* L. Shin (1968) 210, (1970) 47; Lai et Wang-Yang (1976) 165; Gao et Zhang (1981) 164\*; Yamada *et al.* (1986) 163.

- Anthoceros formosae** Steph. (1916) 5: 1002; Horikawa (1934) 292, (1936a) 669; Khanna (1938) 319; Hattori (1944) 182; Hattori (1960) 3; Inoue (1961) 194; Shin (1970) 50; Lai et Wang-Yang (1976) 165; Hasegawa (1984) 25, (1984a) 263\*.
- Anthoceros formosae** fo. **gemmaulosus** Hatt. Lin (1981) 360.
- Anthoceros fuciformis** Aust. Yang (1960) 234.=*Folioceros fuciformis*.
- Anthoceros laevis** L. Horikawa (1934) 291, (1939) 871\*, (1936d) 559; Hattori (1944) 183; Shin (1968) 212, (1970) 50.=*Phaeoceros laevis*.
- Anthoceros miyabeanus** Steph. Herzog et Noguchi (1955) 30; Lai et Wang-Yang (1955) 30.=*Folioceros fuciformis*.
- Anthoceros nagasakiensis** Steph. Inoue (1961) 184; Lai et Wang-Yang (1976) 165.=*A. punctatus*.
- Anthoceros pearsoni** Yang (1960) 234.
- Anthoceros punctatus** L. Hasegawa (1984a) 255\*.
- Anthoceros vesiculosus** Aust. Herzog et Noguchi (1955) 30; Lai et Wang-Yang (1976) 165.=*Folioceros vesiculosus*.
- Aphanolejeunea grossepapillosa** Horikawa Horikawa (1934) 284; Hattori (1960) 3; Chen et Wu (1964) 273; Lai et Wang-Yang (1976) 165; Pócs (1984) 310.=*Cololejeunea grossepapillosa*.
- Aphanolejeunea truncatifolia** Horikawa (1934) 284\*, (1939) 863\*; Hattori (1951) 43, (1960) 3; Chen et Wu (1964) 272\*; Pócs (1984) 311; Li *et al.* (1985) 544\*.=*Cololejeunea truncatifolia*.
- Apometzgeria pubescens** (Schrank) Kuwah. Hattori (1966) 359; Lai et Wang-Yang (1976) 165; Lin (1981) 359; Lin et Tsai (1984) 97.
- Apotreubia nana** (Hatt. et Inoue) Hattori et Mizutani in Hattori, Sharp, Mizutani et Iwatsuki (1966) 492; Inoue (1967a) 365\*; Furuki et Inoue (1981) 334; Fritsch (1982) 4.
- Archilejeunea mariana** (Gott.) Steph. Verdoorn (1934) 219; Herzog et Noguchi (1955) 43; Amakawa (1964a) 135; Shin (1970) 38.=*Spruceanthus marianus*.
- Asterella monospiris** (Horik.) Horik. Kamimura (1952) 113; Shin (1970) 48; Lai et Wang-Yang (1976) 165; Lin (1981) 360; Fritsch (1982) 5.
- Asterella tenella** (L.) Beauv. Yang et Lee (1964) 186.
- Asterella yoshinagana** (Horik.) Horikawa (1951a) 79; Lai et Wang-Yang (1976) 165; Fritsch (1982) 6.
- Asterella yoshinagana** (Horik.) Shim. et Hatt. Iwatsuki et Mizutani (1972) 363\*.=*A. yoshinagana* (Horik.) Horik.
- Barbilophozia attenuata** (Lindenb.) Loesk. Iwatsuki et Mizutani (1972) 165; Lai et Wang-Yang (1976) 165.
- Barbilophozia gracilis** (Schl.) K. Muell. Kitagawa (1965) 268; Lai et Wang-Yang (1976) 165.=*B. attenuata*.
- Barbilophozia hatcheri** (Evans) Loesk. Kitagawa (1965) 266; Lai et Wang-Yang (1976) 165.
- Bazzania aequitexta** Herz. in Herz. et Noguchi (1955) 41\*; Bonner (1963) 326; Lai et Wang-Yang (1976) 166.
- Bazzania albicans** Steph. Horikawa (1934) 62\*; Hattori (1944f) 62\*, (1952b) 39; Hattori et Mizutani (1958) 111\*; Yang (1960) 231; Inoue (1961) 186; Hong (1966) 398; Shin (1968) 196.=*B. tridens*.
- Bazzania albifolia** Horikawa (1934) 195\*; Hattori (1960) 5; Mizutani et Chang (1986) 427; Lai et Wang-Yang (1976) 166.
- Bazzania angustifolia** Horikawa (1934) 198\*, (1939) 835\*; Hattori (1960) 5; Bonner (1963) 329; Pócs (1969) 90\*; Lai et Wang-Yang (1976) 166; Lai (1977) 154; Wu (1984) 222.
- Bazzania bidentula** (Steph.) Nicholson Horikawa (1934) 192; Hattori (1944) 14, (1944f) 63\*, (1952b) 39; Hattori et Mizutani (1958) 93\*; Hong (1966) 398; Iwatsuki et Mizutani

- (1972) 277; Lai et Wang-Yang (1976) 166; Inoue (1981) 61; Gao et Zhang (1981) 30\*; Fritsch (1982) 7; Li *et al.* (1985) 475.
- Bazzania conophylla** (Lac.) Schiffn. Yamada et Lai (1979) 87; Mizutani et Chang (1986) 428.
- Bazzania fauriana** Steph. Hattori et Mizutani (1958) 101\*; Inoue (1959a) 269; Yang (1960) 231; Shin (1968) 196; Pócs (1969) 90\*; Iwatsuki et Mizutani (1972) 277\*; Lai et Wang-Yang (1976) 166; Lai (1977) 154; Fritsch (1982) 7; Wu (1984) 222.
- Bazzania fissifolia** (Steph.) Steph. ex Yasuda nom. nud. Hattori (1944f) 64\*; Bonner (1963) 351.=*B. tricrenata*.
- Bazzania fissifolia** (Steph.) Horikawa (1934) 199; Hattori (1952b) 40.=*B. tricrenata*.
- Bazzania fissifolia** f. *hamata* (Steph.) Hattori (1948) 14.=*B. tricrenata*.
- Bazzania fissifolia** var. *subsimplex* (Steph. in Sched.) Hattori (1952b) 40.=*B. tricrenata*.
- Bazzania formosae** (Steph.) Horikawa (1934) 196; Bonner (1963) 353; Shin (1968) 196, (1970) 30.=*B. tridens*.
- Bazzania imbricata** (Mitt.) Hatt. Yamada et Lai (1979) 87.
- Bazzania japonica** (Sande Lac.) Lindb. Inoue (1961) 186; Yang (1960) 231; Inoue (1965) 272; Shin (1970) 30; Lai et Wang-Yang (1976) 166.
- Bazzania kanemaru** Hattori Yang (1960) 231.
- Bazzania lepidozoioides** Horikawa (1934) 191\*; Hattori (1960) 6; Bonner (1963) 365.=*Acromastigium divaricatum*.
- Bazzania madothecoides** Horikawa (1934) 193\*; Hattori (1960) 6; Bonner (1963) 368; Lai et Wang-Yang (1976) 166; Fritsch (1982) 7.=*B. revoluta*.
- Bazzania magna** Horikawa (1934) 197\*; Hattori (1960) 6; Inoue (1961) 6; Bonner (1963) 368; Lai et Wang-Yang (1976) 166; Fritsch (1982) 7; Mizutani et Chang (1986) 430.
- Bazzania mayebarae** Hatt. Lai et Wang-Yang (1976) 166; Lai (1977) 154.
- Bazzania nodulosa** Horikawa (1934) 199\*; Hattori (1944) 18\*, (1960) 6; Bonner (1963) 372.=*B. fauriana*.
- Bazzania oshimensis** Steph. Inoue (1961) 186; Lai et Wang-Yang (1976) 166.
- Bazzania ovistipula** (Steph.) Abeyw. Yamada et Lai (1979) 87.
- Bazzania pearsonii** Steph. Pócs (1969) 87; Lai et Wang-Yang (1976) 166; Lai (1977) 154.
- Bazzania praeurupta** (R. B. et N.) Trev. Mizutani (1967a) 80\*; Kitagawa (1972) 450; Hattori (1975a) 209; Lai et Wang-Yang (1976) 166; Fritsch (1982) 8; Li *et al.* (1985) 475\*.
- Bazzania pseudotriangularis** Horikawa (1934) 194\*; Hattori (1960) 7; Bonner (1963) 381.=*B. praeurupta*.
- Bazzania remotifolia** Horikawa (1934) 193\*; Hattori (1960) 7; Bonner (1963) 384; Lai et Wang-Yang (1976) 166; Fritsch (1982) 8.=*B. tricrenata*.
- Bazzania revoluta** (Steph.) N. Kitag. Mizutani et Chang (1986) 431.
- Bazzania serrulatoides** Horikawa (1934) 200\*, (1939) 837\*; Hattori (1960) 7; Bonner (1963) 388; Lai et Wang-Yang (1976) 166; Mizutani et Chang (1986) 432.
- Bazzania shikkimensis** (Steph.) Herz. Yamada et Lai (1979) 87.
- Bazzania spinosa** Okam. (1916) 2\*; Horikawa (1934) 201; Hattori (1960) 7; Inoue (1961) 186; Bonner (1963) 390; Lai et Wang-Yang (1976) 166; Mizutani et Chang (1986) 432.
- Bazzania subdistans** Horikawa (1934) 190\*; Hattori (1960) 7; Bonner (1963) 391.=*Metacalypogeia remotifolia*.
- Bazzania triangularis** Lindb. Horikawa (1934) 190.=*B. tricrenata*.
- Bazzania tricrenata** (Wabl.) Trevis. Hattori (1942a) 475, (1944) 20; Hattori et Mizutani (1958) 96\*; Yang (1960) 231; Nakanishi (1963) 325, (1964) 71; Yang et Lee (1964) 184; Hong (1966) 398; Noguchi, Takaki et Inoue (1966) 384; Hattori (1966) 506, (1968a) 277, (1971a) 226, (1975a) 210; Mizutani (1967a) 77; Schuster (1969) 72; Iwatsuki et Mizutani (1972)

- 277\*; Lai et Wang-Yang (1976) 166; Long (1979) 58; Gao et Chang (1981) 34\*; Lin et Tsai (1984) 96; Li *et al.* (1985) 478; Mizutani et Chang (1986) 434.
- Bazzania tridens** (R. B. et N.) Trev. Herzog et Noguchi (1955) 41; Mizutani (1967a) 72\*; Hattori (1968) 288; Shin (1970) 29; Inoue (1973) 24\*; Lai et Wang-Yang (1976) 166; Lin (1981) 360; Yamada *et al.* (1981) 113; Fritsch (1982) 8; Iwatsuki et Mizutani (1983) 194; Wu (1984) 222; Lin et Tsai (1984) 96.
- Bazzania tridens** (R. B. et N.) Trev. var. *assamica* (Steph.) Pócs (1969) 86; Lai et Wang-Yang (1976) 166.
- Bazzania trilobata** (L.) Gray Nakanishi (1963) 321.
- Bazzania vittata** (Gott.) Trev. Lai (1978) 435; Yamada et Lai (1979) 87; Mizutani et Chang (1986) 435.
- Bazzania yakushimensis** Horikawa (1934) 194\*; Hattori (1948) 19, (1952b) 41; Hattori et Mizutani (1958) 97\*. = *B. praerupta*.
- Blasia pusilla** Linn. Horikawa (1934) 135, (1939) 815\*; Hattori (1944) 57, (1968) 288; Yang (1960) 233; Iwatsuki et Mizutani (1972) 353\*; Lai et Wang-Yang (1976) 166.
- Blepharostoma trichophyllum** (Linn.) Dumor. Horikawa (1934) 204, (1935c) 214, (1939) 839\*, (1951) 101\*; Hattori (1952b) 39, (1966) 504, (1971a) 226, (1975a) 207; Nakanishi (1963) 323; Iwatsuki et Mizutani (1972) 269; Lai et Wang-Yang (1976) 166; Inoue (1978a) 93.
- Brachiolejeunea miyakeana** Steph. (1912) 5; Horikawa (1934) 260; Bonner (1963) 456; Lai et Wang-Yang (1976) 166. = *Spruceanthus mariana*.
- Brachiolejeunea retusa** Horikawa (1934) 258\*; Hattori (1960) 8. = *Schiffneriolejeunea tumida*.
- Brachiolejeunea sandvicensis** (Gott.) Evans Horikawa (1934) 259, (1952) 68, (1955) 75; Hattori (1944) 97\*, (1952c) 33; Verdoon (1934) 222; Herzog et Noguchi (1955) 45; Inoue (1961) 188; Mizutani (1961) 167; Nakanishi (1963) 320; Gao et Zhang (1985) 157. = *Trocholejeunea sandvicensis*.
- Calobryum blumei** (*non* Nees) Yang (1960) 231. = *Haplomitrium mnioides*.
- Calobryum mnioides** Steph. Hattori (1944) 8. = *Haplomitrium mnioides*.
- Calobryum rotundifolium** (Mitt.) Schiffn. Horikawa (1934) 139, (1939) 817\*; Shin (1968) 195; Yang (1966b) 65. = *Haplomitrium mnioides*.
- Calycularia crispula** Mitt. Inoue (1968) 402, (1975) 106\*, (1981) 62; Fritsch (1982) 9; Lai et Wang-Yang (1976) 166.
- Calycularia formosana** Horikawa (1934) 137\*; Hattori (1960) 8; Bonner (1963) 478; Lai et Wang-Yang (1976) 166. = *C. crispula*.
- Calypogeia arguta** Nees et Mont. Stephani (1908) 3: 406; Horikawa (1934) 188; Hattori (1944) 26, (1952b) 42; Bonner (1963) 482; Inoue et Miller (1965) 143; Shin (1968) 197, (1970) 31; Noguchi, Takaki et Inoue (1966) 385; Kitagawa (1973) 264; Lai et Wang-Yang (1976) 166.
- Calypogeia fissa** (Linn.) Raddi Herzog et Noguchi (1955) 40; Lai et Wang-Yang (1976) 166.
- Calypogeia formosana** Horikawa (1934) 186\*; Hattori (1960) 8; Bonner (1963) 490; Lai et Wang-Yang (1976) 166.
- Calypogeia furcata** Steph. (1908) 3: 411; Bonner (1963) 490. = *C. arguta*.
- Calypogeia neesiana** (Mass. et Car.) K. Muell. Lin et Tsai (1984) 96.
- Calypogeia rigida** Horikawa (1934) 185\*; Hattori (1960) 9; Bonner (1963) 505. = *Metacalypogeia cordifolia*.
- Calypogeia tosana** Steph. Horikawa (1934) 188, (1939) 833\*; Hattori (1944) 27, (1952b) 42; Inoue (1961) 187; Hong (1966) 399; Shin (1968) 198, (1970) 31; Inoue (1969a) 54\*, (1973) 36\*; Lai et Wang-Yang (1976) 166; Inoue (1981) 62.

- Calypogeia trichomanis* (Linn.) Corda Horikawa (1934) 185; Hattori (1944) 28, (1952b) 42; Yang et Lee (1964) 185; Hong (1966) 399; Inoue (1968) 398; Iwatsuki et Mizutani (1972) 281\*; Lai et Wang-Yang (1976) 166; Fritsch (1982) 11.
- Cephalozia asymmetrica* Horikawa (1934) 177\*; Hattori (1960) 9; Bonner (1963) 541; Lai et Wang-Yang (1976) 166.=*C. gollanii*.
- Cephalozia bicuspidata* Dum. Yang (1960) 232.
- Cephalozia catenulata* (Hueb.) Lindb. ssp. *nipponica* (Hatt.) Inoue (1985) 335.
- Cephalozia gollanii* Steph. Inoue (1981b) 101\*.
- Cephalozia otaruensis* Steph. Lai et Wang-Yang (1976) 166; Yamada *et al.* (1986) 63.
- Cephalozia* sp. Inoue (1961) 186.
- Cephaloziella* sp. Inoue (1972b) 319; Lai et Wang-Yang (1976) 166.
- Cephaloziopsis pearsonii* (Spruce) Schiffn. Kitagawa (1970) 65\*; Lai et Wang-Yang (1976) 166.=*Sphenolobopsis pearsonii*.
- Ceratolejeunea oceanica* (Mitt.) Steph. Mizutani (1981) 305.
- Ceratolejeunea exocellata* Herzog in Herzog et Noguchi (1955) 47\*; Bonner (1962-63) 644; Lai et Wang-Yang (1976) 166.=*C. oceanica*.
- Chandonanthus birmensis* Steph. Hattori (1942a) 475, (1966) 508; Kitagawa (1965) 255\*; Iwatsuki et Mizutani (1972) 283; Lai et Wang-Yang (1976) 166; Li *et al.* (1985) 489\*.
- Chandonanthus birmensis* non Steph. auct. Horikawa (1934) 205.=*Mastigophora diclados*.
- Chandonanthus filiformis* Steph. Hattori (1975a) 212; Iwatsuki et Mizutani (1983) 194.=*Tetralophozia filiformis*.
- Chandonanthus hirtellus* (Weber) Mitt. Horikawa (1934) 206, (1939) 839\*, (1939b) 395; Inoue (1961) 185, (1968) 401; Nakanishi (1963) 324; Kitagawa (1965) 257\*; Hattori (1966) 508, (1971a) 227; Hattori et Mizutani (1969) 93; Iwatsuki et Mizutani (1972) 283\*; Lai et Wang-Yang (1976) 166; Lai (1977) 154; Long (1979) 56; Lin (1981) 360; Lin et Tsai (1984) 96; Fritsch (1982) 12; Li *et al.* (1985) 489\*.
- Chandonanthus pusillus* Steph. Horikawa (1934) 205, (1935f) 1000; Kitagawa (1965) 259\*; Iwatsuki et Mizutani (1972) 284\*; Lai et Wang-Yang (1976) 166; Lai (1977) 154.=*Tetralophozia filiformis*.
- Chandonanthus setiformis* (Ehrh.) Lindb. Nakanishi (1963) 324; Lai et Wang-Yang (1976) 167.=*Temnoma setigerum*.
- Cheilolejeunea ceylanica* (Gott.) Schust. et Kachroo Chen et Wu (1964) 234.
- Cheilolejeunea imbricata* (Nees) Hatt. Inoue (1961) 188; Chen et Wu (1964) 234; Inoue et Miller (1965) 147; Hong (1966) 414; Shin (1968) 205, (1970) 38; Hattori et Mizutani (1969) 95; Lai et Wang-Yang (1976) 167; Mizutani (1978) 125, (1961) 191; Li *et al.* (1985) 534\*.
- Cheilolejeunea intertexta* (Lindb.) Steph. Mizutani (1982) 170\*.
- Cheilolejeunea longiloba* (Hoffm.) Kachr. et Schust. Yamada *et al.* (1986) 63.
- Cheilolejeunea minutissima* Nakanishi (1963) 325.
- Cheilolejeunea obtusilobula* (Hatt.) Hatt. Inoue (1961) 188; Iwatsuki et Mizutani (1972) 341; Lai et Wang-Yang (1976) 167.
- Cheilolejeunea* sp. 1. Inoue (1961) 188.
- Cheilolejeunea* sp. 2. Nakanishi (1964) 72.
- Cheilolejeunea subrotunda* Herzog in Herzog et Noguchi (1955) 48\*; Bonner (1962-63) 792; Lai et Wang-Yang (1976) 167.=*C. intertexta*.
- Cheilolejeunea tosana* (Steph.) Kachroo et Schust. Thiers (1986) 270.
- Cheilolejeunea trifaria* (R. B. et N.) Mizut. Lai et Wang-Yang (1976) 167; Mizutani (1977) 128, (1972) 402\*, (1982) 168\*.
- Chistocaulon dendroides* (Nees) Carl Hattori (1944) 52; Inoue (1967) 184.=*Plagiochila*

dendroides.

- Chiloscyphus argutus* (Reinw.) Nees Horikawa (1934) 172; Kamimura (1939) 67; Hattori et Mizutani (1969) 94.=*Heteroscyphus argutus*.
- Chiloscyphus aselliformis* (R. B. et N.) Nees Grolle (1965) 44; Inoue (1975) 24\*; Kitagawa (1981) 68, (1979) 31.
- Chiloscyphus aselliformis* var. *neesi* Schiffn. Herzog et Noguchi (1955) 48\*.=*Chiloscyphus aselliformis*.
- Chiloscyphus bescherellei* Steph. Horikawa (1934) 172; Fritsch (1982) 12.=*Heteroscyphus bescherellei*.
- Chiloscyphus breviculus* Yang et Lee (1964) 190; Lai et Wang-Yang (1976) 167.
- Chiloscyphus communis* Steph. Hattori et Mizutani (1969) 94.=*Heteroscyphus coalitus*.
- Chiloscyphus costatus* (Nees) Engel et Schust.
- Chiloscyphus cuspidatus* (Nees) Engel et Schust.
- Chiloscyphus decurrens* (Reinw. *et al.*) Nees Pócs (1976) 95\*.
- Chiloscyphus planus* Mitt. Hattori (1968a) 279.=*Heteroscyphus planus*.
- Chiloscyphus polyanthus* (Linn.) Corda Hattori (1952b) 44, (1966) 512; Hong (1966) 401; Lai et Wang-Yang (1976) 167; Lin (1981) 361; Lin et Tsai (1984) 97; Iwatsuki et Mizutani (1983) 194; Hattori (1985a) 221.
- Chiloscyphus polyanthus* var. *fragilis* (Roth) K. Muell. Horikawa (1934) 171; Lai et Wang-Yang (1976) 167.
- Chiloscyphus semiteres* (Lehm.) Lehm. et Lindb.
- Chiloscyphus tener* Steph. Hattori (1966) 512; Fritsch (1982) 13.
- Chiloscyphus zollingeri* Gott. Stephani (1897) 78, (1906) 3: 214; Horikawa (1934) 172; Kamimura (1939) 67.=*Heteroscyphus zollingeri*.
- Clamatocolea innovata* Herzog in Herzog et Noguchi (1955) 39\*; Bonner (1962-63) 802; Lai et Wang-Yang (1976) 167.=*Jungermannia truncata*.
- Cololejeunea aoshimensis* (Horik.) Mizut. Hong (1966) 416; Bonner (1962-63) 817; Shin (1968) 205, (1970) 39; Lai et Wang-Yang (1976) 167.
- Cololejeunea appressa* (Evans) Bened. Mizutani (1961) 279\*; Shin (1968) 205, (1970) 39; Lai et Wang-Yang (1976) 167; Mizutani (1975) 257, (1978) 125, (1984) 166.
- Cololejeunea denticulata* (Horik.) Hatt. Mizutani (1961) 255\*; Bonner (1962-63) 824; Lai et Wang-Yang (1976) 167.
- Cololejeunea floccosa* (L. et L.) Schiffn. Mizutani (1961) 275; Shin (1968) 205, (1970) 39; Lai et Wang-Yang (1976) 167; Tixier (1977) 1027; Mizutani (1975) 257, (1978) 126, (1984) 166; Li *et al.* (1985) 539\*.
- Cololejeunea formosana* Mizut. (1961) 250\*; Shin (1968) 206, (1970) 39; Inoue (1973) 160\*; Lai et Wang-Yang (1976) 167.
- Cololejeunea goebelli* (Gott.) Schiffn. Mizutani (1961) 252\*, Inoue (1965) 273; Hong (1966) 416; Shin (1968) 106, (1970) 39; Iwatsuki et Mizutani (1972) 349\*; Lai et Wang-Yang (1976) 167; Mizutani (1978) 127.
- Cololejeunea grossepapillosa* (Horik.) N. Kitagawa (1981) 68.
- Cololejeunea handelii* (Herz.) S. Hattori (1944) 100.=*C. macounii*.
- Cololejeunea hasskarliana* (Gott.) Bndx. Kodama (1956) 64\*; Shin (1970) 40, (1970a) 26; Lai et Wang-Yang (1976) 167.
- Cololejeunea inflata* Steph.
- Cololejeunea lanciloba* Steph.
- Cololejeunea longifolia* (Mitt.) Benedix. nom. inval. basion. non cit. Kitagawa (1972) 451; Lai et Wang-Yang (1976) 167; Mizutani (1978) 127.=*C. minuta*.

- Cololejeunea macounii* (Spr.) Evans Mizutani (1961) 266\*; Nakanishi (1963) 325, (1964) 72; Chen et Wu (1964) 252; Hong (1966) 416; Shin (1968) 206; Inoue (1970) 361\*; Iwatsuki et Mizutani (1972) 351\*; Lai et Wang-Yang (1976) 167.
- Cololejeunea magnilobula* (Horikawa) Lai in Lai et Wang-Yang (1976) 167.
- Cololejeunea magnipapillosa* (Kamin.) Mizutani Yamada *et al.* (1981) 113.
- Cololejeunea magnistyla* (Horikawa) Mizutani Lai et Wang-Yang (1976) 167.
- Cololejeunea minuta* (Mitt.) Steph. Hattori (1944) 100, (1951) 31; Mizutani (1961) 257\*; Hong (1966) 416; Shin (1970) 41.
- Cololejeunea minutissima* Nakanishi (1963) 325.
- Cololejeunea nakaii* (Hatt.) Amak. Lai et Wang-Yang (1976) 167.=*C. verrucosa*.
- Cololejeunea nipponica* (Horik.) Hatt. Hattori (1951) 44; Mizutani (1961) 269; Bonner (1962-63) 841; Shin (1970) 41. Lai et Wang-Yang (1976) 167; Mizutani (1978) 127.
- Cololejeunea ocellata* (Horik.) Benedix. Bonner (1962-63) 842; Chen et Wu (1964) 250; Mizutani (1984) 157.
- Cololejeunea ocelloides* (Horik.) Mizutani (1961) 277\*; Bonner (1962-63) 842; Chen et Wu (1964) 250; Mizutani (1984) 161.
- Cololejeunea oshimensis* (Horikawa) Bened. Mizutani (1961) 271\*; Shin (1968) 206, (1970) 41; Mizutani (1975) 258, (1978) 127, (1984) 155; Chen et Wu (1964) 246; Lai et Wang-Yang (1976) 167; Li *et al.* (1985) 538\*.=*C. inflata*.
- Cololejeunea peraffinis* (Schiffn.) Schiffn. Mizutani (1961) 272\*, (1966) 292, (1975) 258, (1978) 128; Inoue (1970) 361\*; Shin (1968) 206, (1970) 41; Iwatsuki et Mizutani (1972) 352\*; Lai et Wang-Yang (1976) 167.
- Cololejeunea planissima* (Mitt.) Mizutani (1961) 245\*, (1978) 128, (1984a) 430\*; Shin (1970) 41; Lai et Wang-Yang (1976) 167; Kitagawa (1969) 31.
- Cololejeunea pseudofloccosa* (Horik.) Benedix. Mizutani (1961) 276\*; Bonner (1962-63) 846; Hattori (1966) 533; Iwatsuki et Mizutani (1972) 352; Mizutani (1975) 258, (1977) 129; Lai et Wang-Yang (1976) 167; Mizutani (1984) 165; Tixier (1980) 389; Li *et al.* (1985) 539.
- Cololejeunea radaliloba* Steph. Herzog et Noguchi (1955) 54; Mizutani (1961) 242, (1978) 128; Shin (1968) 206, (1970) 42; Lai et Wang-Yang (1976) 167; Fritsch (1982) 13.
- Cololejeunea rupicola* (Steph.) Hattori Bonner (1962-63) 849.=*C. macounii*.
- Cololejeunea schwabei* Herzog in Herzog et Noguchi (1955) 54\*; Bonner (1962-63) 850; Amakawa (1958) 145; Shin (1970) 42; Lai et Wang-Yang (1976) 167.
- Cololejeunea shikokiana* (Horik.) Hattori (1944) 101; Mizutani (1961) 268; Bonner (1962-63) 851; Chen et Wu (1964) 254; Shin (1970) 42; Iwatsuki et Mizutani (1972) 351; Lai et Wang-Yang (1976) 167; Mizutani (1978) 128; Inoue (1981) 63.
- Cololejeunea spinosa* (Horik.) Hattori (1944) 102; Chen et Wu (1964) 256; Shin (1968) 207, (1970) 42.=*C. spinosa* (Horik.) Pande et Misra.
- Cololejeunea spinosa* (Horik.) Pande et Misra Hattori (1951d) 160; Lai et Wang-Yang (1976) 167; Li *et al.* (1985) 540\*.
- Cololejeunea stylosa* (Steph.) Steph. ex Mizutani Inoue (1970) 362; Shin (1970) 40; Lai et Wang-Yang (1976) 362.
- Cololejeunea truncatifolia* (Horik.) Mizut. Bonner (1962-63) 856; Lai et Wang-Yang (1976) 167.
- Cololejeunea verrucosa* Steph.
- Cololejeunea yulensis* (Steph.) Benedix. Inoue et Miller (1965) 153; Lai et Wang-Yang (1976) 167.
- Colura calyptrifolia* (Horik.) Dum. var. *pseudocalyptrifolia* (Horik.) Hattori (1951) 45; Bonner



- (1962-63) 863.=*C. tenuicornis*.
- Colura inuii** Horik. Horikawa (1934) 289, (1939) 869\*; Hattori (1942) 69, (1944) 103; Chen et Wu (1964) 245; Shin (1968) 207, (1970) 42; Inoue (1973) 162\*; Lai et Wang-Yang (1976) 167; Yamada *et al.* (1981) 113; Mizutani (1982a) 132; Bonner (1962-63) 868.
- Colura pseudocalyptrifolia* Horikawa (1934) 289\*; Hattori (1960) 12.=*C. tenuicornis*.
- Colura tenuicornis** (Evans) Steph. Mizutani (1961) 236; Chen et Wu (1964) 244; Grolle (1965) 47; Hattori (1975a) 237; Lai et Wang-Yang (1976) 167; Yamada *et al.* (1981) 113; Li *et al.* (1985) 537.
- Conocephalum conicum** (L.) Dum. Horikawa (1934) 115, (1939) 801\*, (1936) 19; Hattori (1944) 170; Herzog et Noguchi (1955) 30; Horikawa (1955) 11; Yang (1960) 234; Inoue (1961) 184; Yang et Lee (1964) 186; Shin (1968) 211, (1970) 49; Nakanishi (1963) 322; Lai et Wang-Yang (1976) 167; Lin (1981) 360; Yamada *et al.* (1981) 113; Fritsch (1982) 14; Iwatsuki et Mizutani (1983) 194; Chiang et Lin (1984) 34.
- Conocephalum japonicum** (Thunb.) Grolle (1984) 501.
- Conocephalum riccardia** Y. Yang (1960) 234.
- Conocephalum supradecompositum* (Lindb.) Steph. Horikawa (1934) 116, (1939) 801\*, (1935b) 761, (1935c) 211; Hattori (1944) 171; Noguchi, Takaki et Inoue (1966) 378; Shin (1968) 21, (1970) 49; Inoue (1969a) 21\*; Iwatsuki et Mizutani (1972) 364; Lai et Wang-Yang (1976) 167; Lin (1981) 362; Fritsch (1982) 14; Kitagawa (1982) 179; Gao et Zhang (1981) 190; Yamada *et al.* (1981) 113; Li *et al.* (1985) 549\*.=*C. japonicum*.
- Crossogyna nipponica** (Hatt.) Schljak.
- Crossotolejeunea pellucida* Horikawa (1934) 260\*, (1951a) 81; Hattori (1960) 12.=*Lepidolejeunea bidentata*.
- Cyathodium japonicum* S. O. Lindb. Horikawa (1926) 36.=*Conocephalum japonicum*.
- Cylindrocolea recurvifolia** (Steph.) Inoue (1972) 348; Inoue (1973) 130\*; Lai et Wang-Yang (1976) 168.
- Dendroceros japonicus** Steph. Horikawa (1934) 292, Hattori (1944) 185; Inoue et Miller (1965) 153; Shin (1970) 50; Iwatsuki et Mizutani (1972) 371\*; Inoue (1975) 160\*; Lai et Wang-Yang (1976) 168; Inoue (1978) 32\*; Lin (1981) 361; Fritsch (1982) 15; Hasegawa (1984) 23.
- Dendroceros javanicus** (Nees) Steph. Hasegawa (1982) 99, (1986) 382.
- Dendroceros tubercularis** Hatt. Hasegawa (1980) 291\*, (1984) 23.
- Denotarisia linguifolia** (De Not.) Grolle (1971) 6\*.
- Diplasiolejeunea brachyclada** Evans Horikawa (1934) 289, (1935f) 1001; Chen et Wu (1964) 243; Grolle (1966) 86, (1968a) 4; Lai et Wang-Yang (1976) 168.
- Diplasiolejeunea cavifolia** Steph. Mizutani (1977) 130.
- Diplasiolejeunea pellucida** (Meissn.) Schiffn. Herzog et Noguchi (1955) 55; Lai et Wang-Yang (1976) 168; Grolle (1966) 80.
- Diplophyllum albicans** (Linn.) Dumor. Horikawa (1934) 217, (1939) 845\*; Hattori (1944) 67, (1952c) 23; Amakawa et Hattori (1955) 72\*; Horikawa (1955) 22; Hong (1966) 407; Iwatsuki et Mizutani (1972) 301\*; Inoue (1972a) 325; Lai et Wang-Yang (1976) 168.
- Diplophyllum andrewsii** Evans Inoue (1972a) 326; Lai et Wang-Yang (1976) 168.
- Diplophyllum obtusifolium* (Hook.) Dumor. sensu Horikawa (1934) 219.=*D. andrewsii*.
- Diplophyllum serrulatum** (K. Muell.) Steph. Hattori (1944) 67, (1952c) 23; Amakawa et Hattori (1955) 79\*; Yang (1960) 232; Hong (1966) 407; Iwatsuki et Mizutani (1972) 300\*.
- Diplophyllum serrulatum* auct. non (K. Muell.) Steph. sensu Horikawa (1934) 218, (1939) 845\*.=*D. taxifolium*.
- Diplophyllum taxifolium** (Wahl.) Dum. Inoue (1972a) 326, (1975) 16\*; Lai et Wang-Yang

(1976) 168.

- Drepanolejeunea angustifolia** (Mitt.) Grolle Hattori (1966) 530; Shin (1970) 42; Inoue (1981) 64; Lai et Wang-Yang (1976) 168; Udari et Awasthi (1982) 419\*.
- Drepanolejeunea apiculata** Horikawa (1934) 266\*; Hattori (1960) 13; Bonner (1965) 75.=  
*Leptolejeunea foliicola*.
- Drepanolejeunea asymmetrica** Horikawa Horikawa (1935d) 589.=*D. vesiculosa*.
- Drepanolejeunea chiponesensis** Horikawa (1934) 262\*; Hattori (1960) 13; Chen et Wu (1964) 239; Bonner (1965) 79.=*D. pentadactyla*.
- Drepanolejeunea dactylophora** (G. L. N.) Spr. Hattori (1951) 46; Herzog et Noguchi (1955) 47; Chen et Wu (1964) 238; Shin (1968) 207, (1970) 42; Inoue (1965) 273; Lai et Wang-Yang (1976) 168; Mizutani (1961) 228, (1971) 130, (1975) 260, (1978) 129.
- Drepanolejeunea emarginata** Horikawa (1934) 267\*; Hattori (1960) 13; Chen et Wu (1964) 238; Bonner (1965) 83; Lai et Wang-Yang (1976) 168.=*Leptolejeunea emarginata*.
- Drepanolejeunea erecta** (Steph.) Mizutani Udari et Awasthi (1982) 422\*.
- Drepanolejeunea filicuspes** Steph. Herzog et Noguchi (1955) 47; Lai et Wang-Yang (1976) 168.=*Harpalejeunea filicuspis*.
- Drepanolejeunea foliicola** Horikawa (1932) 85\*, (1934) 261; Kamimura (1939) 70; Hattori (1944) 103, (1952c) 35; Mizutani (1961) 221; Bonner (1965) 84; Shin (1968) 207, (1970) 42.
- Drepanolejeunea formosana** Horikawa (1934) 264\*; Hattori (1960) 13; Chen et Wu (1964) 238; Bonner (1965) 84; Lai et Wang-Yang (1976) 168.
- Drepanolejeunea grossidentata** Horikawa (1934) 263\*, (1939b) 397; Hattori (1960) 13; Bonner (1965) 86.=*D. dactylophora*.
- Drepanolejeunea japonica** Horik. Hattori (1951) 47, (1952c) 35; Mizutani (1961) 219\*.=*D. erecta*.
- Drepanolejeunea micholitzii** Steph. Hattori (1951) 46; Lai et Wang-Yang (1976) 168; Kitagawa (1981) 69; Mizutani (1975) 260.=*D. pentadactyla*.
- Drepanolejeunea monophthalma** (Herz.) Mizutani Mizutani (1966) 291; Iwatsuki et Mizutani (1972) 346\*; Lai et Wang-Yang (1976) 168; Inoue (1981) 64; Yamada *et al.* (1981) 113.=  
*D. erecta*.
- Drepanolejeunea pentadactyla** (Mont.) Steph.
- Drepanolejeunea subacuta** (Hor.) Miller, Bonner et Bischler.
- Drepanolejeunea tenuioides** Horikawa (1934) 262\*; Hattori (1951) 46, (1960) 14; Chen et Wu (1964) 238; Bonner (1965) 103; Lai et Wang-Yang (1976) 168.=*D. pentadactyla*.
- Drepanolejeunea tenuis** (R. B. et N.) Schiffn. Horikawa (1934) 265, (1936a) 668, (1950) 31, (1952) 78, (1955) 70; Hattori (1944) 104, (1951) 46, (1952c) 35; Kamimura (1939) 70; Chen et Wu (1964) 239; Bonner (1965) 104; Mizutani (1961) 223; Inoue et Miller (1965) 148; Shin (1968) 207.=*D. angustifolia*.
- Drepanolejeunea ternatensis** (Gott.) Steph. Mizutani (1961) 225, (1975) 260, (1977) 130, (1978) 130; Inoue (1965) 273; Shin (1970) 43; Lai et Wang-Yang (1976) 168; Udari et Awasthi (1982) 429\*.
- Drepanolejeunea ternatensis** (Gott.) Steph. var. *lancispina* Herzog Herzog et Noguchi (1955) 47; Hattori (1951) 46.=*D. ternatensis*.
- Drepanolejeunea unidentata** Horikawa (1935d) 589\*; Hattori (1960) 14; Bonner (1965) 107.=*D. ternatensis*.
- Drepanolejeunea vesiculosa** (Mitt.) Steph. Iwatsuki et Mizutani (1972) 346\*; Inoue (1975) 84\*; Lai et Wang-Yang (1976) 168; Yamada *et al.* (1981) 113.
- Drepanolejeunea yoshinagana** (Steph.) Mizutani (1961) 222\*; Inoue et Miller (1965) 149; Bonner

- (1965) 108.=*D. vesiculosa*.
- Dumortiera hirsuta** (Sw.) Reinw. Horikawa (1934) 116, (1939) 803\*, (1955) 15, (1949) 142, (1951c) 33; Hattori (1944) 172; Tatuno (1951) 184; Herzog et Noguchi (1955) 30; Inoue (1961) 184; Yang et Lee (1964) 186; Yang (1960) 234; Lai et Wang-Yang (1976) 168; Fritsch (1982) 16; Lin (1981) 359; Lin et Tsai (1984) 97.
- Dumortiera hirsuta** var. *nepalensis* (Tayl.) Frye et Clark Hattori (1975a) 240.
- Eopleurozia giganteoides** (Horik.) Inoue Inoue (1975) 50\*.
- Eulejeunea flava** (Swartz) Schiffn. Bonner (1965) 139.=*Lejeunea flava*.
- Euosmolejeunea auriculata** Steph. Horikawa (1934) 270; Kamimura (1939) 72; Hattori (1944) 104, (1952c) 34; Lai et Wang-Yang (1976) 168.
- Euosmolejeunea fuscobrunnea** Horik. Yamaguchi (1984) 333.
- Euosmolejeunea latifolia** Horikawa (1934) 269\*; Hattori (1960) 15; Bonner (1965) 153.=*Cheilolejeunea trifaria*.
- Fimbriaria monospiris** Horikawa (1934) 113\*, (1939) 799\*; Hattori (1960) 15; Bonner (1965) 189.=*Asterella monospiris*.
- Fimbriaria yoshinaga** Horikawa (1934) 113, (1939) 799\*.=*Asterella yoshinaga*.
- Folioceros fuciformis** (Mont.) Bharadw. Hasegawa (1984a) 267\*, (1984) 23.
- Folioceros vesiculosus** (Aust.) Bharadw.
- Fossombronina australi-nipponica** Horikawa (1934) 138\*; Hattori (1960) 16; Bonner (1965) 203; Shin (1970) 47; Fritsch (1982) 17.=*F. cristula*.
- Fossombronina cristula** Aust. Inoue (1973a) 296, (1975) 100\*; Lai et Wang-Yang (1976) 168.
- Fossombronina pusilla** (L.) Dumor. Horikawa (1934) 137; Lai et Wang-Yang (1976) 168.
- Frullania acutiloba** Mitt. var. *schiffneri* Verd. Hattori et Lin (1985) 131; Yamada *et al.* (1986) 63.
- Frullania alstoni** auct. non Verd.: Herzog et Noguchi (1955) 43.=*F. densiloba*.
- Frullania amplicrania** Steph. Inoue (1961) 187; Nakanishi (1963) 321; Iwatsuki et Mizutani (1972) 331\*; Lai et Wang-Yang (1976) 168; Hattori et Lin (1985) 131.
- Frullania aoshimensis** Horik. Hattori (1944) 142, (1952c) 29; Horikawa (1950) 32; Kamimura (1961) 69\*; Shin (1968) 203, (1970) 37; Iwatsuki et Mizutani (1972) 332\*; Lai et Wang-Yang (1976) 168; Hattori et Lin (1985) 157.
- Frullania arecae** (Spreng.) Gott.
- Frullania balansae** Steph. Inoue (1961) 187; Lai et Wang-Yang (1976) 168.=*F. tamarisci* ssp. *obscura* var. *balansae*.
- Frullania berthoumieuii** Steph.
- Frullania caduca** Hattori (1980a) 33\*, (1982) 328; Hattori et Lin (1985) 132.
- Frullania concava** Horikawa (1934) 238\*, (1939) 855\*; Hattori (1960) 16; Yang et Lee (1964) 186; Bonner (1964) 269. non Steph. 1846=*F. ternatensis*.
- Frullania davurica** Hampe Inoue (1981) 65; Yamada *et al.* (1981) 113; Hattori et Lin (1985) 132.
- Frullania davurica** ssp. *jackii* (Gott.) Hattori (1976) 21.
- Frullania davurica** ssp. *chichibuensis* (Kamim.) Hatt.
- Frullania delavayi** Steph. Nakanishi (1963) 325, (1964) 72.=*F. inflexa*.
- Frullania densiloba** Steph. Horikawa (1934) 236, (1939) 853\*, (1939b) 397; Hattori (1944) 142, (1952c) 29; Kamimura (1961) 69\*; Inoue (1961) 187; Iverson (1963) 122; Inoue et Iwatsuki (1969) 303; Shin (1968) 203, (1970) 37; Iwatsuki et Mizutani (1972) 333\*; Lai et Wang-Yang (1976) 168; Hattori (1980a) 34; Inoue (1981) 64; Fritsch (1982) 19; Hattori et Lin (1985) 158.
- Frullania dilatata** (L.) Dum. Yang (1960) 233.

- Frullania diversitexta** St. Hattori et Lin (1985) 154.
- Frullania ericoides** (Nees) Nees Lai et Wang-Yang (1976) 168; Yamada *et al.* (1981) 113.
- Frullania fauriana** Steph. (1910) 402; Horikawa (1934) 241, (1939) 855\*; Hattori (1952c) 29; Iverson (1963) 123; Bonner (1965) 302; Shin (1968) 203, (1970) 37.
- Frullania formosae** Steph. (1924) 539; Hattori (1960) 16; Bonner (1965) 306; Hattori et Lin (1985) 134.
- Frullania galeata** (Reinw. *et al.*) Dum. Yamada *et al.* (1981) 113.=*F. riojaneirensis*.
- Frullania gaudichaudii** (Nees et Mont.) Nees et Mont. Hattori (1952a) 316, (1966) 525; Lai et Wang-Yang (1976) 168; Hattori et Lin (1985) 153.
- Frullania hamatiloba** Steph. (1910) 4: 400; Horikawa (1934) 241; Hattori (1944) 143\*, (1952c) 29; Iverson (1963) 123; Bonner (1965) 321.
- Frullania hamatiloba** Steph. ex Yoshinaga f. *grosseappendiculata* S. Hattori (1944b) 155\*=*F. hamatiloba*.
- Frullania hampeana** Nees Horikawa (1934) 241; Hattori (1944) 144, (1944c) 264, (1952c) 29; Kamimura (1952) 109; Inoue (1961) 187; Kitagawa (1961) 49\*; Bonner (1965) 321; Iwatsuki et Mizutani (1972) 332\*; Lai et Wang-Yang (1976) 168.=*F. monocera*.
- Frullania hirosii** Hattori (1980a) 34\*; Hattori et Lin (1985) 136.
- Frullania horikawana** Verd. Yang (1960) 233.=*F. yuennanensis*.
- Frullania hypoleuca** Nees Hattori et Lin (1985) 155; Yamada *et al.* (1986) 63.
- Frullania inflexa** Mitt.
- Frullania inouei** Hattori (1980a) 36\*; Hattori et Lin (1985) 136.
- Frullania jackii** Gott. Inoue (1973) 62\*=*F. davurica* ssp. *jackii*.
- Frullania jackii** ssp. *japonica* (Sande-Lac.) Hatt. var. *chichibuensis* Kamimura Lai et Wang-Yang (1976) 168.=*F. davurica* ssp. *davurica* var. *chichibuensis*.
- Frullania jackii** ssp. *japonica* var. *japonica* Kamimura (1961) 52\*; Nakanishi (1964) 71; Hong (1966) 411; Inoue (1969a) 66\*; Iwatsuki et Mizutani (1972) 332\*; Lai et Wang-Yang (1976) 168; Lin (1981) 361; Li *et al.* (1985) 525\*=*F. davurica*.
- Frullania japonica** Sande Lacoste Horikawa (1934) 237, (1939) 855\*; Hattori (1952c) 29; Iverson (1963) 123; Bonner (1965) 339.=*D. davurica*.
- Frullania kagoshimensis** Steph. Inoue (1961) 187, (1973) 142\*; Lai et Wang-Yang (1976) 168; Yamada *et al.* (1981) 113; Hattori et Lin (1985) 136; Hattori (1986b) 138.
- Frullania kagoshimensis** var. *minor* Kamin. (1961) 45\*; Bonner (1965) 342; Lai et Wang-Yang (1976) 168; Hattori (1980a) 38; Yamada *et al.* (1981) 114.=*F. kagoshimensis*.
- Frullania kamimurae** Inoue Lai et Wang-Yang (1976) 168.=*F. tamarisci* ssp. *obscura*.
- Frullania macrophylla** Hattori (1980b) 220; Hattori (1980a) 39; Hattori et Lin (1985) 153.
- Frullania makinoana** Steph. Kamimura (1952) 109.=*F. tamarisci*.
- Frullania meyeniana** Lindb. Inoue (1961) 187; Lai et Wang-Yang (1976) 168; Hattori (1980a) 39; Yamada *et al.* (1981) 114; Hattori et Lin (1985) 159.
- Frullania moniliata** (R. B. N.) Montagne Stephani (1911) 4: 536; Okamura (1916) 3; Horikawa (1934) 235, (1939) 853\*; Kamimura (1939) 69; Bonner (1965) 370; Fritsch (1982) 20.=*F. tamarisci*
- Frullania moniliata** ssp. *breviramea* (St.) Verd. Herzog et Noguchi (1955) 43.=*F. tamarisci*
- Frullania moniliata** ssp. *obscura* Verd. Hattori (1944) 148, (1952c) 30; Horikawa (1951c) 32, (1955) 81; Inoue (1961) 187; Iverson (1963) 122.=*F. tamarisci*
- Frullania monocera** (Tayl.) Tayl. Hattori (1980) 104; Yamada *et al.* (1981) 114; Hattori et Lin (1985) 139.
- Frullania monocera** (Tayl.) Tayl. var. *depauperata* Hatt. Hattori (1986) 216; Hattori et Lin

(1985) 139.

- Frullania motoyana** Steph. Horikawa (1951a) 81; Inoue (1961) 187; Lai et Wang-Yang (1976) 168; Hattori (1980a) 39; Hattori et Lin (1985) 159.
- Frullania muscicola** Steph. Inoue (1961) 187; Hattori (1966) 526, (1968a) 280; Inoue (1970) 361\*; Iwatsuki et Mizutani (1972) 320\*; Lai et Wang-Yang (1976) 168; Hattori et Lin (1985) 139\*.
- Frullania nepalensis** (Spreng.) Lehm. et Lindb. Nakanishi (1963) 322; Hattori (1968a) 280, (1973a) 134\*, (1974a) 178, (1980a) 39; Lai et Wang-Yang (1976) 168; Lin (1981) 362; Fritsch (1982) 21; Lin et Tsai (1984) 97; Hattori et Lin (1985) 141.
- Frullania nepalensis* var. *nishiyamensis* (Steph.) Hatt. Hattori (1944) 149, (1941a) 331\*; Honda (1941) 236; Bonner (1965) 377.=*F. nepalensis*.
- Frullania nishiyamensis* Steph. Horikawa (1934) 242; Kamimura (1961) 37\*; Iverson (1963) 123; Hattori (1952c) 30, (1966) 527; Inoue (1967) 187; Lai et Wang-Yang (1976) 168; Li *et al.* (1985) 525\*.=*F. nepalensis*.
- Frullania orientalis** Sande-Lac. Hattori (1975) 296\*, (1976a) 488\*, (1982a) 236; Lai et Wang-Yang (1976) 168; Hattori et Lin (1985) 154; Hattori et Piippo (1986) 38\*.
- Frullania osumiensis** (Hatt.) Hatt. Yamada *et al.* (1981) 114; Hattori et Lin (1985) 141.
- Frullania pedicellata* Steph. var. *hamatiloba* (Steph.) Hatt. Bonner (1965) 397.=*B. hamatiloba*.
- Frullania pedicellata** Steph. Inoue (1961) 187; Lai et Wang-Yang (1976) 168.
- Frullania ramuligera** (Nees) Mont. Hattori (1980a) 39; Yamada *et al.* (1981) 114; Hattori et Lin (1985) 155.
- Frullania riojaneirensis** Raddi Ångstr. Hattori et Lin (1985) 152.
- Frullania schensiana* Mass. var. *formosa* Hattori in Inoue (1961) 187. Lai et Wang-Yang (1976) 168. *mom. nud.*=*F. schensiana*.
- Frullania schensiana** Mass. Hattori (1966) 527, (1974a) 180, (1971a) 238; Lai et Wang-Yang (1976) 168.
- Frullania serrata** Gott. Yamada *et al.* (1981) 114; Hattori et Lin (1985) 160.
- Frullania squarrosa* (R. B. N.) Dum. Hattori (1952c) 31; Herzog et Noguchi (1955) 43; Inoue (1961) 187; Kamimura (1961) 17\*; Nakanishi (1963) 319; Hong (1966) 412; Shin (1970) 38.=*F. ericoides*.
- Frullania taiheizana** Horikawa (1934) 241\*; Hattori (1960) 18; Iverson (1963) 124; Bonner (1965) 443; Lai et Wang-Yang (1976) 168; Fritsch (1982) 22.
- Frullania tamarisci** (L.) Dum. Hattori (1966) 528.
- Frullania tamarisci* ssp. *moniliata* (R. B. N.) Kamim. Nakanishi (1963) 321; Hong (1966) 412; Shin (1968) 204; Li *et al.* (1985) 525\*.=*F. tamarisci* (cf. Crandall-Stotler & al. (1987)).
- Frullania tamarisci* (L.) Dum. ssp. *obscura* (Verd.) Hatt. var. *balansae* (Steph.) Hattori (1972) 220\*; Lai et Wang-Yang (1976) 169; Lai (1977) 154; Iwatsuki et Mizutani (1983) 194; Hattori et Lin (1985) 161.=*F. tamarisu*.
- Frullania tamarisci* ssp. *obscura* var. *breviramea* (Steph.) Hatt.=*F. tamarisu*.
- Frullania tamarisci* ssp. *obscura* var. *obscura* Lai et Wang-Yang (1976) 168; Inoue (1981) 65; Hattori (1980a) 39; Lin (1981) 361; Hattori et Thaitong (1978) 193; Lin et Tsai (1984) 97; Hattori et Lin (1985) 160.=*F. tamarisci*
- Frullania tamsuina** Steph. (1910) 444; Horikawa (1934) 240; Herzog et Noguchi (1955) 43; Hattori (1960) 18; Bonner (1965) 448; Hattori (1944b) 157\*, (1974) 185, (1982a) 263; Srihla (1960) 105\*; Shin (1968) 204, (1970) 38; Lai et Wang-Yang (1976) 169; Hattori et Lin (1985) 146; Yamada *et al.* (1986) 63.
- Frullania tenuicaulis* Mitt. Horikawa (1934) 236; Kamimura (1961) 61\*; Lai et Wang-Yang (1976) 169.=*F. trichodes*.

- Frullania ternatensis** Gott. Hattori (1974a) 174, (1982a) 228; Lai et Wang-Yang (1976) 169; Lin (1981) 361; Hattori et Streimann (1985) 119; Hattori et Piippo (1986) 35.
- Frullania ternatensis** Gott. sensu Hattori (1973) 81\*. = *F. ternatensis* var. *non-appendiculata*.
- Frullania ternatensis** var. *non-appendiculata* Hattori Hattori (1986a) 251; Hattori et Lin (1985) 162.
- Frullania tertuosa** Verd. Horikawa (1934) 239. = *F. monocera*.
- Frullania tsukushiensis** Horik. Horikawa (1934) 237; Iverson (1963) 123. = *F. aoshimensis*.
- Frullania trichodes** Mitt. Hattori et Lin (1985) 163.
- Frullania vethii** Sande Lac. Hattori (1976) 16. = *F. trichodes*.
- Frullania viridis** Horikawa Horikawa (1934) 240; Iverson (1963) 124; Inoue et Iwatsuki (1969) 305; Lai et Wang-Yang (1976) 169. = *F. monocera*.
- Frullania wallichiana** Mitt. Yamada *et al.* (1981) 114. = *F. arecae*.
- Frullania yunnanensis** Steph. Hattori (1977) 162, (1980a) 40; Hattori et Lin (1985) 148.
- Frullania yuzawana** Hattori (1981) 157\*; Yamada *et al.* (1981) 114; Hattori et Lin (1985) 149.
- Gottschea aligera** (Nees et Bl.) Nees Inoue (1985a) 116\*.
- Gottschea nuda** (Horik.) Grolle et Zijls. Inoue (1985a) 114\*.
- Gottschea philippinensis** Mont. Inoue (1985a) 116\*.
- Grimaldia subpilosa** Horikawa (1934) 112\*; Hattori (1960) 19; Bonner (1966) 511; Lai et Wang-Yang (1976) 169. = *Mannia subpilosa*.
- Gymnomitrium concinnatum** (Lightf.) Corda. Nakanishi (1963) 325.
- Gymnomitrium formosae** (Steph.) Horikawa (1934) 141. = *Cylindrocolea recurvifolia*.
- Gymnomitrium reflexifolium** Horikawa (1934) 140\*; Hattori (1960) 19. = *Marsupella revoluta*.
- Haplomitrium blumei** auct. non (Nees) Schust.: Yang (1966) 9. = *H. mnioides*.
- Haplomitrium mnioides** (Linbd.) Schust. Schuster (1966a) 52\*, (1967) 52\*; Inoue (1969a) 53\*, (1973) 2\*; Shin (1970) 29; Lai et Wang-Yang (1976) 169; Iwatsuki et Mizutani (1972) 268\*; Kitagawa (1978) 47; Fritsch (1982) 23; Engel (1981) 668.
- Haplomitrium rotundifolium** (Mitt.) Steph. Yang (1966) 9. = *H. mnioides*.
- Haplozia ariadne** (Taylor) Horikawa (1934) 144; Bonner (1966) 544. = *Jungermannia ariadne*.
- Haplozia chiloscypoides** Horikawa (1934) 145\*; Hattori (1960) 19. = *Jungermannia truncata*.
- Haplozia riparia** (Taylor) Dum. var. *rivularis* auct. non Bernet: Horikawa (1934) 145. = *Jungermannia exsertifolia*.
- Haplozia rotundifolia** Horikawa (1934) 145\*; Hattori (1960) 20; Bonner (1966) 547; Amakawa (1963) 20. = *Jungermannia appressifolia*.
- Harpalejeunea fificuspis** (Steph.) Mizut. Grolle (1979) 44; Mizutani (1977) 131.
- Harpalejeunea intermedia** Evans Hattori (1951) 46; Lai et Wang-Yang (1976) 169. = *Drepanolejeunea vesiculosa*.
- Herbertus aduncus** (Dicks.) Gray Inoue (1977) 11\*, (1981) 66; Lai et Wang-Yang (1976) 169; Lin (1981) 360; Lin et Tsai (1984) 95; Iwatsuki et Mizutani (1983) 194.
- Herbertus dicranus** (Tayl.) Trev. Inoue (1973) 9\*; Kitagawa (1978) 48; Long (1979) 59; Lin (1981) 360; Fritsch (1982) 24; Lin et Tsai (1984) 95.
- Herbertus giraldianus** (Steph.) Nichols. Inoue (1977) 3\*; Kitagawa (1978) 48.
- Herbertus imbricatus** Horikawa (1934) 207\*; Hattori (1960) 20; Bonner (1966) 583; Miller (1965) 321. = *H. kurzii*.
- Herbertus kurzii** (Steph.) Mill. Hattori (1966) 169. = *H. kurzii* (Steph.) Chopra.
- Herbertus kurzii** (Steph.) Chopra Hattori (1971a) 225; Inoue (1977) 7; Lai et Wang-Yang (1976) 169.
- Herbertus longifissus** (Steph.) Steph. Horikawa (1934) 210; Hattori (1948) 4, (1960) 20; Bonner (1966) 586; Lai et Wang-Yang (1976) 169; Fritsch (1982) 24; Inoue (1961) 185.

- Herbertus longifolius* Horikawa (1934) 208\*; Miller (1965) 313; Lai et Wang-Yang (1976) 169.=*H. dicranus*.
- Herbertus maximus* Yang (1960) 231.
- Herbertus minimus* Horikawa (1934) 208\*; Hattori (1960) 20; Yang (1960) 231; Miller (1965) 315; Bonner (1966) 587.=*H. sakurarii*.
- Herbertus minus* Horikawa (1934) 211\*; Hattori (1960) 20; Miller (1965) 315; Bonner (1966) 587; Li *et al.* (1985) 468\*.=*H. aduncus*.
- Herbertus remotiusculifolius* Horikawa (1934) 209\*; Hattori (1960) 20; Yang (1960) 231; Miller (1965) 312; Bonner (1966) 589.=pro parte *H. adunca*.
- Herbertus remotiusculifolius* Horikawa (1934) 209\*; Inoue (1977) 5.=pro parte *H. sakurarii*.
- Herbertus sakurarii* (Warnst.) Hatt. Lai et Wang-Yang (1976) 169; Inoue (1977) 5; Lai (1977) 154; Fritsch (1982) 24.
- Herbertus sakurarii* f. *remotiusculifolius* (Horik.) Hattori (1948) 6.=*H. aduncus*.
- Herbertus* sp. Lai (1977) 154.
- Heteroscyphus argutus* (R. B. N.) Schiffn. Hattori (1944) 44\*, (1944e) 39, (1952b) 44; Shin (1968) 198, (1970) 33; Lai et Wang-Yang (1976) 169; Inoue (1981) 66; Lin (1981) 360; Yamada *et al.* (1981) 114; Lin (1984) 63\*; Piippo (1985a) 137\*.
- Heteroscyphus argutus* var. *brevidens* Schiffn. Herzog et Noguchi (1955) 40; Lai et Wang-Yang (1976) 169.
- Heteroscyphus aselliformis* (R. B. N.) Schiffn. Inoue (1965) 274; Lai et Wang-Yang (1976) 169; Piippo (1985a) 138\*.=*Chiloscyphus aselliformis*.
- Heteroscyphus bescherellei* (Steph.) Hatt. Hattori (1944) 44, (1944e) 39, (1957) 92, (1952b) 45; Herzog et Noguchi (1955) 40; Inoue (1961) 185, (1969a) 58\*; Hong (1966) 401; Shin (1968) 199, (1970) 33; Iwatsuki et Mizutani (1972) 306\*; Inoue (1973) 82\*; Lai et Wang-Yang (1976) 169; Lai (1977) 154; Lin (1981) 362; Yamada *et al.* (1981) 114.
- Heteroscyphus bescherellei* (Steph.) Hatt. f. *tenella* Herz. nom. nud. Lai et Wang-Yang (1976) 169.
- Heteroscyphus coalitus* (Hook.) Schiffn. Piippo (1985a) 141\*.
- Heteroscyphus communis* (Steph.) Schiffn. Inoue (1961) 185, Lai et Wang-Yang (1976) 169.=*H. coalitus*.
- Heteroscyphus lophocoleoides* Hattori Inoue (1961) 185; Lai et Wang-Yang (1976) 169.
- Heteroscyphus planus* (Mitt.) Schiffn. Inoue (1961) 185, (1965) 274; Iwatsuki et Mizutani (1972) 306\*; Lai et Wang-Yang (1976) 169.
- Heteroscyphus saccogynoides* Herzog in Herzog et Noguchi (1955) 40\*; Bonner (1966) 629; Lai et Wang-Yang (1976) 169.
- Heteroscyphus tener* (Steph.) Schiffn. Shin (1968) 199; Iwatsuki et Mizutani (1972) 307\*; Lai et Wang-Yang (1976) 169; Lin et Tsai (1984) 97.
- Heteroscyphus zollingeri* (Gott.) Schiffn. Hattori (1952b) 45; Lai et Wang-Yang (1976) 169.
- Heteroscyphus zollingeri* f. *pluridentata* Herzog in Herzog et Noguchi (1955) 40; Bonner (1966) 632; Lai et Wang-Yang (1976) 169.
- Hygrolejeunea formosana* Horikawa (1934) 269\*; Hattori (1960) 21; Bonner (1966) 651; Lai et Wang-Yang (1976) 169.=*Lejeunea leratii*.
- Isotachis japonica* Steph. Horikawa (1934) 207; Hattori (1948) 8, (1952b) 39; Hatscher (1961) 16\*; Inoue (1968) 398, (1973) 8\*; Iwatsuki et Mizutani (1972) 270\*; Lai et Wang-Yang (1976) 169; Lin (1981) 360; Lin et Tsai (1984) 95; Fritsch (1982) 24.
- Jackiella brunnea* (Horik.) Hatt. Hattori (1944) 48; Bonner (1966) 708.=*J. javanica*.
- Jackiella javanica* Schiffn. Hattori (1952b) 49; Inoue (1961) 186; Nakanishi (1963) 323; Grolle (1967) 115; Iwatsuki et Mizutani (1972) 321\*; Inoue (1973) 231\*; Lai et Wang-

- Yang (1976) 169; Shin (1970) 32; Piippo (1985) 89.
- Jackiella javanica** var. *cavifolia* Schiffn. Kitagawa (1979) 36.
- Jamesoniella autumnalis** (DC.) Steph. Schuster (1969) 818\*; Inoue (1975) 4\*, (1968) 401; Grolle (1971) 65; Lai et Wang-Yang (1976) 169; Inoue (1981) 66; Gao et Zhang (1981) 79\*; Fritsch (1982) 25.
- Jamesoniella brunnea** Horikawa (1934) 146\*; Hattori (1960) 21; Bonner (1966) 713.=*Jackiella javanica*.
- Jamesoniella horikawana** Hattori (1968a) 281.=*Crossogyna nipponica*.
- Jamesoniella nipponica** Hattori Grolle (1971) 65; Hattori (1975a) 213; Long (1979) 56; Fritsch (1982) 25.=*Crossogyna nipponica*.
- Jamesoniella ovifolia** Schiffn. Horikawa (1934) 147; Lai et Wang-Yang (1976) 169.=*Denotarisia linguifolia*.
- Jamesoniella verrucosa** Horikawa (1934) 146\*; Hattori (1960) 22, (1966) 22; Amakawa (1963) 20; Bonner (1966) 730; Lai et Wang-Yang (1976) 169.=*Crossogyna nipponica*.
- Jubula hutchinsiae** Dum. ssp. *javanica* (Steph.) Verd. Horikawa (1934) 243, (1939b) 377, (1952) 13; Horikawa et Ando (1954) 298; Hattori (1944) 155, (1952c) 31, (1966) 529, (1971a) 239; Inoue (1961) 187; Kamimura (1961) 89\*; Grolle (1965) 50; Bonner (1966) 734; Fritsch (1982) 25; Pippo (1984a) 333\*; Guerke (1978) 64\*.
- Jubula hutchinsiae** ssp. *javanica* f. *integrifolia* (Steph.) Horikawa Herzog et Noguchi (1955) 42.=*J. hutchinsiae* ssp. *javanica*.
- Jubula hutchinsiae** ssp. *japonica* (Steph.) Horikawa et Ando (1954) 300\*.=*J. japonica*.
- Jubula japonica** Steph. Horikawa (1936c) 381; Kamimura (1939) 69; Mizutani (1961) 138\*; Hattori (1944) 156, (1952c) 32; Inoue (1969a) 67\*, (1973) 144\*; Hong (1966) 413; Shin (1968) 204, (1970) 38; Iwatsuki et Mizutani (1972) 336\*; Lai et Wang-Yang (1976) 169; Guerke (1978) 74\*.
- Jubula javanica** Steph. Mizutani (1961) 137\*; Inoue (1965) 274; Bonner (1966) 734; Shin (1968) 204, (1970) 38; Inoue (1975) 68\*; Lai et Wang-Yang (1976) 169; Lai (1977) 154; Lin (1981) 361; Yamada *et al.* (1981) 114.=*J. hutchinsiae* ssp. *javanica*.
- Jubula rostrata** Steph. (1917) 4: 690; Bonner (1964) 737.=*J. hutchinsiae* ssp. *javanica*.
- Jubula trifida** Steph. (1924) 6: 555; Bonner (1966) 738.=*J. hutchinsiae* ssp. *javanica*.
- Jungermannia amakawana** Grolle Iwatsuki et Mizutani (1972) 296\*; Lai et Wang-Yang (1976) 169.
- Jungermannia appressifolia** Mitt. Vana (1972) 57; Hattori (1975a) 217; Lai et Wang-Yang (1976) 167; Long (1979) 56; Vana et Inoue (1983) 136.
- Jungermannia ariadne** Tayl. Amakawa (1968) 105\*; Vana (1972) 58, (1973) 189; Lai et Wang-Yang (1976) 169.
- Jungermannia ariadne** auct. non Tayl.: Inoue s.n. (Bryophyta selecta exs. no. 11)=*J. hasskarliana*.
- Jungermannia atrovirens** Dum. fo. *tristis* (Nees) Schl.
- Jungermannia chiloscypoides** (Horik.) Lai in Lai et Wang-Yang (1976) 170.=*J. truncata*.
- Jungermannia comata** Nees Amakawa (1960b) 38\*, (1970) 153\*; Hong (1966) 403; Shin (1968) 199, (1970) 33; Hattori et Mizutani (1969) 94; Lai et Wang-Yang (1976) 170; Inoue (1968) 400, (1980) 3; Vana (1972) 62, (1973) 187; Yamada *et al.* (1981) 114; Lin (1981) 360; Vana et Inoue (1983) 131; Fritsch (1982) 26.=*Solenostoma comatum*.
- Jungermannia exsertifolia** Steph. Vana et Inoue (1983) 129.
- Jungermannia hasskarliana** (Nees) Steph. Vana (1972) 63, (1973) 187; Vana et Inoue (1983) 131; Lai et Wang-Yang (1976) 170.
- Jungermannia infusca** (Mitt.) Steph. Vana (1975) 212; Lai et Wang-Yang (1976) 170.



- Jungermannia kyushiana* Amak. sensu Lai et Wang-Yang (1976) 170.=*J. infusca*.  
*Jungermannia lanceolata* L. Yang et Lee (1964) 185.  
*Jungermannia pseudocyclops* Inoue Amakawa (1967) 192\*; Lai et Wang-Yang (1976) 170;  
Vana et Inoue (1983) 138.  
*Jungermannia pyriforma* Steph. Vana et Inoue (1983) 138.  
*Jungermannia rotundifolia* (Horikawa) Hatt. Lai et Wang-Yang (1976) 170.=*J. appressifolia*.  
*Jungermannia scalaris* Schrad. Lai et Wang-Yang (1976) 170.=*Nardia scalaris*.  
*Jungermannia schauliana* Steph. Vana et Inoue (1983) 138.  
*Jungermannia shinii* Amak. Yamada *et al.* (1981) 114.=*J. truncata*.  
*Jungermannia speciosum* (Horik.) Kitagawa (1963a) 175.=*Scaphophyllum speciosum*.  
*Jungermannia subrubra* Steph. Vana et Inoue (1983) 140.  
*Jungermannia subulata* Evans Yamada *et al.* (1981) 114; Lin (1981) 362; Vana et Inoue (1983)  
130; Lin et Tsai (1984) 96.  
*Jungermannia tetragona* Lindb. Vana et Inoue (1983) 132.  
*Jungermannia tristis* Nees Hattori (1952b) 47; Hong (1966) 404; Lai et Wang-Yang (1976)  
170.=*Solenostoma triste*.  
*Jungermannia truncata* Nees Vana (1973) 188; Hattori (1975a) 220; Lai et Wang-Yang (1976)  
170; Kitagawa (1978) 63; Vana et Inoue (1981) 132; Yamada *et al.* (1981) 114.  
*Jungermannia truncata* var. *setulosa* (Herzog) Amakawa (1972) 386\*; Lai et Wang-Yang (1976)  
170.=*J. truncata*.  
*Jungermannia virgata* (Mitt.) Steph. Vana et Inoue (1983) 136.  
*Jungermannia yangii* Lai in Lai et Wang-Yang (1976) 170.=*J. truncata*.  
*Kurzia gonyotricha* (Lac.) Grolle Mizutani et Chang (1986) 425.  
*Kurzia makinoana* (Steph.) Grolle Inoue (1965) 274, Hattori (1975a) 210, (1966) 506; Shin  
(1968) 197, (1970) 31; Iwatsuki et Mizutani (1972) 274\*; Inoue (1973) 30; Lai et Wang-  
Yang (1976) 170; Lai (1977) 154; Mizutani (1977a) 193; Lin (1981) 361, Inoue (1981) 66.  
*Lasiolejeunea yulensis* (Steph.) Benedix Herzog et Noguchi (1955) 55; Lai et Wang-Yang  
(1976) 17.  
*Lejeunea aquatica* Horikawa Horikawa (1934) 274; Hattori (1942a) 469, (1944) 108, (1952c)  
36; Mizutani (1961) 213; Inoue (1970) 360; Shin (1970) 43, Iwatsuki et Mizutani (1972)  
343\*; Lai et Wang-Yang (1976) 170; Lin (1981) 360.  
*Lejeunea boninensis* Horikawa Inoue (1968) 402, (1961) 188, (1970) 362, (1965) 274;  
Mizutani (1971a) 179.=*L. catanduana*.  
*Lejeunea borneensis* Steph. Iwatsuki et Mizutani (1972) 344\*; Inoue (1973) 86\*; Lai et Wang-  
Yang (1976) 170; Mizutani (1978) 130; Lin (1981) 360; Fritsch (1982) 28.=*L. catanduana*.  
*Lejeunea catanduana* (Steph.) Mill. Kitagawa (1981) 69.  
*Lejeunea compacta* (Steph.) Hattori Inoue (1961) 188; Lai et Wang-Yang (1976) 170.  
*Lejeunea cucullata* (R. B. N.) Nees Mizutani (1966) 291, (1975) 261, (1977) 131, (1978)  
130; Shin (1970) 43; Inoue et Iwatsuki (1970) 480; Iwatsuki et Mizutani (1972) 345; Lai  
et Wang-Yang (1976) 170.  
*Lejeunea curviloba* Steph. Herzog et Noguchi (1955) 52.=*L. parva*.  
*Lejeunea discreta* Lindb.  
*Lejeunea flava* (Sw.) Nees Herzog et Noguchi (1955) 51; Mizutani (1961) 207, (1971) 449,  
(1977) 132; Inoue (1965) 274; Hong (1966) 425; Shin (1968) 208; Inoue et Iwatsuki (1970)  
480; Hattori (1971a) 239, (1952c) 36; Lai et Wang-Yang (1976) 170; Iwatsuki et Mizutani  
(1972) 344\*; Lin (1981) 361; Yamada *et al.* (1981) 114.  
*Lejeunea japonica* Mitt. Lai et Wang-Yang (1976) 170; Yamada *et al.* (1981) 114.  
*Lejeunea leratii* (Steph.) Mizut. Kitagawa (1981) 69.

*Lejeunea parva* (Hatt.) Mizut.

*Lejeunea planiloba* Evans Horikawa (1934) 275; Kamimura (1939) 73; Hattori (1952c) 36; Hong (1966) 415; Mizutani (1961) 205\*, Inoue (1973) 152\*; Lai et Wang-Yang (1976) 170.

*Lejeunea proliferans* Herzog in Herzog et Noguchi (1955) 51\*; Lai et Wang-Yang (1976) 170.

*Lejeunea punctiformis* Taylor Mizutani (1961) 215\*; Hattori (1968) 291, (1966) 531; Shin (1968) 208, (1970) 43; Hattori et Mizutani (1969) 96; Inoue et Iwatsuki (1970) 480; Lai et Wang-Yang (1976) 170.

*Lejeunea ramulosa* (Herz.) Schuster.

*Lejeunea* sp. Inoue (1981) 188.

*Lejeunea subigiensis* Steph. Herzog et Noguchi (1955) 51; Lai et Wang-Yang (1976) 170.

*Lejeunea ulicina* (Tayl.) Tayl. Mizutani (1971a) 179, (1975) 261; Iwatsuki et Mizutani (1972) 345\*; Inoue (1973) 154\*; Lai et Wang-Yang (1976) 170; Yamada *et al.* (1981) 114.

*Lejeunea vaginata* Steph. Lai et Wang-Yang (1976) 170.=*L. discreta*.

*Lejeunea wightii* Lindb. Herzog et Noguchi (1955) 51; Inoue (1965) 275; Noguchi, Takaki et Inoue (1966) 386; Hattori (1966) 531, (1968) 291; Hattori et Mizutani (1969) 96; Lai et Wang-Yang (1976) 170; Karczmarz (1981) 130.

*Lepicolea scolopendra* (Hook.) Dum. Horikawa (1934) 211; Lai et Wang (1976) 170.

*Lepicolea scolopendra* (Hook.) Dum. var. *yakusimensis* Hattori (1948) 9.=*L. yakusimensis*.

*Lepicolea yakushimensis* (Hatt.) Hattori Lai et Wang-Yang (1976) 170; Lai (1977) 154; Inoue (1978a) 96.

*Lepidolejeunea badia* (Steph.) Engel et Tan.

*Lepidolejeunea bidentula* (Steph.) Schust. var. *bidentula* Piippo (1986) 20\*.

*Lepidolejeunea pellucida* (Hork.) Schust. Inoue (1965) 275.=*L. badia*.

*Lepidozia fauriana* Steph. Inoue (1961) 186, (1965) 275, (1966) 16; Shin (1970) 30; Iwatsuki et Mizutani (1972) 275; Mizutani (1974) 371, (1976) 447; Lai et Wang-Yang (1976) 170; Lai (1977) 154; Yamada *et al.* (1981) 114.

*Lepidozia filamentosa* (Lehm. et Lindb.) Gott., Lindb. et Nees Nakanishi (1963) 322; Fritsch (1982) 29.

*Lepidozia filamentosa* ssp. *subtransversa* (Steph.) Hatt. Lai et Wang-Yang (1976) 170; Lai (1977) 154.=*L. subtransversa*.

*Lepidozia formosae* Steph. (1909) 3: 624; Hattori (1943) 198\*, (1960) 24; Horikawa (1934) 203; Inoue (1961) 186; Lai et Wang-Yang (1976) 170.=*L. vitrea*.

*Lepidozia gonyotricha* Sande-Lac. Herzog et Noguchi (1955) 42; Lai et Wang-Yang (1976) 170.=*Kurzia gonyotricha*.

*Lepidozia makinoana* Steph. Hattori (1948) 22.=*Kurzia makinoana*.

*Lepidozia obtusistipula* Steph. Horikawa (1934) 204; Hattori (1948) 24.=*L. subtransversa*.

*Lepidozia remotifolia* Horikawa (1934) 202\*; Hattori (1960) 25; Lai et Wang-Yang (1976) 170.=*L. trichodes*.

*Lepidozia reptans* (L.) Dum. Horikawa (1934) 203, (1939) 837\*; Hattori et Mizutani (1958) 79\*; Yang (1960) 232; Nakanishi (1963) 321; Hong (1966) 398; Noguchi, Takaki et Inoue (1966) 385; Iwatsuki et Mizutani (1972) 275\*; Mizutani (1974) 373, (1976) 448; Lai et Wang-Yang (1976) 170; Lin (1981) 360; Kitagawa (1981) 70. Li *et al.* (1985) 473.

*Lepidozia setacea* (Weber) Mitt. Hattori (1944) 25; Horikawa (1934) 202; Yang (1960) 232; Yang et Lee (1964) 1985; Shin (1970) 31.=*Microlepidozia setacea*.

*Lepidozia subtransversa* Steph. Hattori (1952b) 41.

*Lepidozia trichodes* (Reinw. *et al.*) Nees Mizutani et Chang (1986) 424.

*Lepidozia vitrea* Steph. Horikawa (1934) 203; Hattori (1944) 26, (1952b) 42; Hattori et Mizutani (1958) 83\*; Hong (1966) 398; Shin (1968) 197, (1970) 30; Inoue (1973) 28\*;

- Iwatsuki et Mizutani (1972) 275\*; Lai et Wang-Yang (1976) 170; Mizutani et Chang (1986) 424.
- Leptodozia wallichiana* Gott. Herzog et Noguchi (1955) 42; Hattori et Mizutani (1958) 86\*; Inoue et Miller (1965) 142; Shin (1968) 197, (1970) 31; Mizutani (1974) 375, (1976) 448; Lai et Wang-Yang (1976) 170; Lin (1981) 360; Yamada *et al.* (1981) 114; Piippo (1984a) 316\*.=*Telaranea wallichiana*.
- Leptocolea aoshimensis* Horik. Horikawa (1934) 278, (1939) 865\*; Hattori (1942b) 657.=*Cololejeunea aoshimensis*.
- Leptocolea ciliatilobula* Horik. (1932) 90\*, (1934) 282; Hattori (1942a) 473\*, (1960) 25.=*Cololejeunea formosana*.
- Leptocolea floccosa* (Lehm. et Lindb.) Steph. Horikawa (1934) 279, (1939b) 397, (1952) 96.=*Cololejeunea floccosa*.
- Leptocolea goebelii* (Gott.) Steph. Horikawa (1934) 281, (1939b) 397, (1952) 93; Kaminura (1939) 76; Hattori (1942b) 657; Horikawa (1955) 88; Chen et Wu (1964) 260.=*Cololejeunea goebelii*.
- Leptocolea liukuensis* Horikawa Horikawa (1934) 278; Kamimura (1939) 77.=*Cololejeunea stylosa*.
- Leptocolea longilobula* Horikawa Horikawa (1934) 282, (1939) 865\*; Kamimura (1939) 75; Hattori (1942b) 657; Chen et Wu (1964) 260.=*Cololejeunea raduliloba*.
- Leptocolea magnistyla* Horikawa Horikawa (1934) 283; Kamimura (1939) 73.=*Cololejeunea magnistyla*.
- Leptocolea minuta* (Mitt.) Chen et Wu (1964) 259.=*Cololejeunea minuta*.
- Leptocolea miyajimensis* Horikawa Horikawa (1934) 278; Kamimura (1939) 76.=*Cololejeunea planissima*.
- Leptocolea nakaii* Horikawa Horikawa (1934) 278; Kamimura (1939) 73; Hattori (1942b) 658.=*Cololejeunea verrucosa*.
- Leptocolea ocellata* Horikawa (1932) 86\*, (1934) 279; Hattori (1960) 27.=*Cololejeunea peraffinis*.
- Leptocolea ocelloides* Horikawa (1934) 280\*; Hattori (1960) 27.=*Cololejeunea peraffinis*.
- Leptocolea peraffinis* (Schiffn.) Horikawa (1934) 280.=*Cololejeunea peraffinis*.
- Leptocolea pseudofloccosa* Horikawa (1932) 87\*, (1934) 281, (1934b) 603; Kamimura (1939) 76; Hattori (1960) 27.=*Cololejeunea pseudofloccosa*.
- Leptolejeunea aberrantia* Horikawa (1935d) 590\*; Hattori (1960) 27; Lai et Wang-Yang (1976) 170.
- Leptolejeunea apiculata* (Horik.) Hatt. Hattori (1951) 46; Amakawa (1960) 163; Chen et Wu (1964) 242; Li *et al.* (1985) 536\*.=*L. foliicola*.
- Leptolejeunea elliptica* (Lehm. et Lindb.) Schiffn. Shin (1970) 44; Inoue (1973) 158; Mizutani (1975) 261, (1978) 131; Yamada *et al.* (1981) 114; Li *et al.* (1985) 536.
- Leptolejeunea emarginata* Hattori (1951) 46.
- Leptolejeunea epiphylla* (Mitt.) Herzog et Noguchi (1955) 47; Mizutani (1975) 261; Lai et Wang-Yang (1976) 170.
- Leptolejeunea foliicola* Steph. Amakawa (1961) 401; Shin (1968) 208, (1970) 44; Mizutani (1975) 261; Lai et Wang-Yang (1976) 170; Yamada *et al.* (1981) 114.
- Leptolejeunea foliicola* (Horik.) Schust. in *Nova Hedwigia*, Beih 9: 116. 1963. non Steph.(1896)=*Drepanolejeunea foliicola*.
- Leptolejeunea radiata* (Mitt.) Herzog et Noguchi (1955) 47; Lai et Wang-Yang (1976) 170.
- Leptolejeunea subacuta* Steph. Horikawa (1934) 267, (1936d) 556, (1939b) 397; Kamimura (1939) 71; Hattori (1944) 117, (1952c) 35; Herzog et Noguchi (1955) 47; Mizutani (1961) 230; Nakanishi (1963) 321; Chen et Wu (1964) 240; Inoue et Miller (1965) 150; Shin (1968)

- 208.=*L. elliptica*.
- Leptolejeunea yangii* M. J. Lai in Lai et Wang-Yang (1976) 170.=*Drepanolejeunea foliicola*.
- Leptoscyphus verrucosus* non (Lindb.) Mueller sensu Horikawa (1934) 164, (1935f) 1000.=*Mylia nuda*.
- Leucolejeunea paroica* Kitagawa Yamada *et al.* (1981) 114.
- Leucolejeunea xanthocarpa* (Lehm. et Lindb.) Evans Hattori (1952c) 34; Horikawa (1954) 273; Herzog et Noguchi (1955) 43; Shin (1968) 208; Mizutani (1961) 184, (1977) 133; Lai et Wang-Yang (1976) 171.
- Lophocolea arisancola* Horikawa (1934) 169\*; Hattori (1960) 27.=*Chiloscyphus cuspidata*.
- Lophocolea bidentata* (L.) Dum. Yang (1960) 232; Yang et Lee (1964) 185.
- Lophocolea ciliolata* (Nees) Gott. Yamada *et al.* (1981) 114.
- Lophocolea costata* (Nees) Gott. Inoue (1968) 400; Kitagawa (1973) 267; Lai et Wang-Yang (1976) 171; Fritsch (1982) 30; Piippo (1985a) 156\*=*Chiloscyphus costatus*.
- Lophocolea cuspidata* (Nees) Limpr. Inoue (1959b) 217, (1968) 400; Hong (1966) 400; Lai et Wang-Yang (1976) 171; Schuster (1980) 198\*; Fritsch (1982) 30.=*Chiloscyphus cuspidatus*.
- Lophocolea formosana* Horikawa (1934) 166\*; Hattori (1960) 27; Yang (1960) 232; Inoue (1961) 185; Fritsch (1982) 30.=*Chiloscyphus costatus*.
- Lophocolea heterophylla* (Schrad.) Dum. Horikawa (1934) 168, (1935c) 214; Hattori (1944) 49, (1952b) 44; Inoue (1959b) 215; Yang (1960) 232; Hong (1966) 400; Lai et Wang-Yang (1976) 171; Schuster (1980) 215\*; Yamada *et al.* (1986) 63.
- Lophocolea magniperianthia* Horikawa (1934) 166\*, (1939) 825\*; Hattori (1960) 28; Lai et Wang-Yang (1976) 171.=*Chiloscyphus semiteres*.
- Lophocolea mollis* (Nees) Nees Hattori (1952b) 44.=*Chiloscyphus cuspidata*.
- Lophocolea muricata* (Lehm. et Lindb.) Nees Horikawa (1934) 165; Inoue (1961) 185; Lai et Wang-Yang (1976) 171; Yamada *et al.* (1981) 114.
- Lophocolea pseudoverrucosa* Horikawa (1934) 168\*; Hattori (1960) 28.=*Saccogynidium muricellum*.
- Lophocolea sikkimensis* (Steph.) Grolle et Hattori Lai et Wang-Yang (1976) 171; Kitagawa (1979) 35; Inoue (1982b) 326\*.
- Lopholejeunea aberrantia* Horikawa (1934) 256\*, (1939) 861\*; Hattori (1960) 28; Lai et Wang-Yang (1976) 171; Fritsch (1982) 30.
- Lopholejeunea applanata* (R. B. N.) Steph. Li *et al.* (1985) 534\*.
- Lopholejeunea brunnea* Horikawa Inoue (1961) 188; Lai et Wang-Yang (1976) 171.
- Lopholejeunea eulopha* (Tayl.) Schiffn. Kitagawa (1981) 70.
- Lopholejeunea formosana* Horikawa (1934) 256\*; Hattori (1944) 120\*, (1960) 28.=*L. subfusca*.
- Lopholejeunea javanica* (Nees) Schiffn. Mizutani (1985) 477.
- Lopholejeunea magniamphigastria* Horikawa (1934) 254\*; Hattori (1960) 29; Lai et Wang-Yang (1976) 171.=*L. eulopha*.
- Lopholejeunea mitis* Herzog in Herzog et Noguchi (1955) 43\*; Lai et Wang-Yang (1976) 71.=*L. javanica*.
- Lopholejeunea nicobarica* Steph. Mizutani (1985) 469.
- Lopholejeunea nigricans* (Lindb.) Steph. Inoue (1975) 74\*.
- Lopholejeunea nipponica* Horik. Yamada *et al.* (1981) 114.=*L. zollingeri*.
- Lopholejeunea schwabeana* Hattori Yang (1960) 233.
- Lopholejeunea schwabei* Herzog in Herzog et Noguchi (1955) 43\*; Lai et Wang-Yang (1976) 171; Lin (1981) 361.=*L. nicobarica*.
- Lopholejeunea* sp. Inoue (1961) 188.
- Lopholejeunea subfusca* (Nees) Steph. Hattori (1952c) 33; Inoue (1961) 188; Mizutani (1961)

179\*, (1977) 133; Hattori (1966) 531; Hong (1966) 414; Grolle (1965) 50; Shin (1968) 209, (1970) 45; Lai et Wang-Yang (1976) 171; Yamada *et al.* (1981) 114; Li *et al.* (1985) 533\*.

**Lopholejeunea toyoshimae** Horikawa Horikawa (1934) 255; Lai et Wang-Yang (1976) 171.

**Lopholejeunea zollingeri** (Steph.) Schiffn.

**Lophozia asymmetrica** Horikawa (1934) 153\*; Hattori (1950) 17, (1960) 29.=*Tritomaria quinquedentata*.

**Lophozia attenuata** (Mart.) Dum. Schuster (1969) 307\*.=*Barbilophozia attenuata*.

**Lophozia barabata** (Schreb.) Dum. Yang (1960) 232.

**Lophozia cornuta** (Steph.) Hatt. Hattori (1944) 35, (1952b) 46; Hong (1966) 402; Kitagawa (1965) 290\*; Iwatsuki et Mizutani (1972) 287\*; Inoue (1973) 290\*; Lai et Wang-Yang (1976) 171.

**Lophozia curiosissima** Horikawa (1934) 152\*; Hattori (1960) 29.=*Acrobolbus ciliatus*.

**Lophozia decurrentia** Horikawa (1934) 150\*; Hattori (1960) 30.=*Anastrepta orcadensis*.

**Lophozia excisa** (Dicks.) Dum. Lin et Tsai (1984) 96.

**Lophozia formosana** Horikawa (1934) 153\*, (1939) 821\*; Hattori (1960) 30; Fritsch (1982) 31.=*L. wenzelii*.

**Lophozia hatcheri** (Evans) Steph. Schuster (1969) 345\*.=*Barbilophozia hatcheri*.

**Lophozia incisa** (Schrad.) Dum. Kitagawa (1963a) 174, (1965) 287; Hattori (1966) 509, (1975a) 213; Schuster (1969) 441; Lai et Wang-Yang (1976) 171; Long (1979) 57; Li *et al.* (1985) 490.

**Lophozia lacerata** Kitagawa (1963a) 172\*; Kitagawa (1965) 280\*; Lai et Wang-Yang (1976) 171; Lin et Tsai (1984) 96.

**Lophozia morrisoncola** Horikawa (1934) 150\*; Hattori (1960) 30; Kitagawa (1963a) 174, (1966) 108, (1981) 70; Lai et Wang-Yang (1976) 171; Lin (1985) 17.

**Lophozia nakanishii** Inoue Lai et Wang-Yang (1976) 171.

**Lophozia pilifera** Horikawa (1936) 20\*; Hattori (1960) 30; Kitagawa (1963a) 175, (1966) 143.=*Temnoma setigerum*.

**Lophozia rotundifolia** Horikawa (1934) 152\*; Hattori (1960) 30.=*Anastrepta orcadensis*.

**Lophozia undulata** Horikawa (1934) 153\*, (1939) 821\*, (1936b) 203, (1935f) 1000.=*L. cornuta*.

**Lophozia wenzelii** (Nees) Steph. Kitagawa (1965) 284\*, (1963a) 174; Schuster (1969) 595\*; Hattori (1966) 509; Lai et Wang-Yang (1976) 171; Inoue (1981) 68.

**Madotheca densifolia** Steph. Horikawa (1934) 231.=*Porella densifolia*.

**Madotheca formosana** Herz. nom. nud.=*Porella plumosa*.

**Madotheca japonica** Sande Lac. Horikawa (1934) 231; Kamimura (1939) 69.=*Porella japonica*.

**Madotheca niitakensis** Horikawa (1934) 233\*; Hattori (1960) 31.=*Porella gracillima* var. *urogea*.

**Madotheca parvistipula** Steph. Horikawa (1934) 232.=*Porella grandiloba*.

**Madotheca perrottetiana** Montagne Horikawa (1934) 231, (1955) 92; Okamura (1916) 3.=*Porella perrottetiana*.

**Madotheca ptychanthoides** Horikawa (1934) 232\*; Hattori (1960) 31; Pócs (1968) 68.=*Porella acutifolia* ssp. *tosana*.

**Madotheca setigera** Steph. Horikawa (1934) 230.=*Porella caespitans* var. *cordifolia*.

**Madotheca thujia** (Dicks.) Dum. Horikawa (1934) 233.=*Porella obtusata* f. *macroloba*.

**Makednothallus isoblastus** Herzog in Herzog et Noguchi (1955) 31\*; Yang (1960) 233; Lai et Wang-Yang (1976) 170.=*Pallavicinia ambigua*.

**Makinia crispata** (Steph.) Miyake Horikawa (1926) 39, (1934) 133, (1935b) 762, (1935c) 212, (1939) 813\*; Hattori (1944) 159; Inoue (1961) 185, (1969a) 46\*, (1975) 110\*, (1981) 68; Shin (1968) 210, (1970) 47; Hattori et Mizutani (1966) 195; Iwatsuki et Mizutani (1972)

- 354\*; Lai et Wang-Yang (1976) 171; Lai (1977) 154; Lin (1981) 361; Fritsch (1982) 32; Lin et Tsai (1984) 97.
- Mannia subpilosa** (Horik.) Horikawa (1951a) 84.
- Marchantia cuneiloba** Steph. (1897) 98; Horikawa (1934) 123, (1939) 807\*; Hattori (1944) 173; Herzog et Noguchi (1955) 30; Shin (1968) 212, (1970) 49; Iwatsuki et Mizutani (1972) 366\*; Lai et Wang-Yang (1976) 171; Lin (1981) 362; Fritsch (1982) 33.
- Marchantia diptera** Mont. Horikawa (1934) 120, (1931) 626\*, (1936a) 666, (1939) 805\*; Hattori (1944) 174; Yang (1960) 234; Shin (1968) 212; Fritsch (1982) 33.=*M. paleacea* var. *diptera*.
- Marchantia formosana** Horikawa (1934) 121\*, (1939) 809\*; Hattori (1960) 32; Lai et Wang-Yang (1976) 171; Fritsch (1982) 33.
- Marchantia paleacea** Bertol. var. *diptera* (Mont.) Hatt. Inoue (1970) 362; Lai et Wang-Yang (1976) 171; Yamada *et al.* (1981) 114.
- Marchantia paleacea** Bertol. Inoue (1961) 184, (1969a) 44\*; Lai et Wang-Yang (1976) 171; Karczmarz (1981) 129.
- Marchantia polymorpha** Linn. Horikawa (1934) 120, (1939) 805\*, (1935b) 762, (1935c) 211, (1935e) 673; Hattori (1944) 175; Yang (1960) 234; Inoue (1961) 184; Yang et Lee (1964) 186; Lai et Wang-Yang (1976) 171; Fritsch (1982) 34.
- Marchantia radiata** Horik. Horikawa (1931) 629\*=*M. tosana*.
- Marchantia tosana** Steph. Horikawa (1926) 37, (1934) 122; Hattori (1944) 175; Inoue (1961) 184, (1969a) 43\*, (1975) 152\*; Herzog et Noguchi (1955) 30; Shin (1968) 212, (1970) 49; Anonymous (1972) 27\*; Lai et Wang-Yang (1976) 171; Lin (1981) 362; Fritsch (1982) 34; Lin et Tsai (1984) 97.
- Marsupella emarginata** (Ehrh.) Dum. Kitagawa (1967) 203, (1981) 70; Hattori (1975a) 231; Iwatsuki et Mizutani (1983) 194.
- Marsupella emarginata** ssp. *tubulosa* (Steph.) Kitagawa Hong (1966) 405; Kitagawa (1963) 87\*; Iwatsuki et Mizutani (1972) 297\*; Lai et Wang-Yang (1976) 171.
- Marsupella pseudofunckii** Hattori Hong (1966) 405; Kitagawa (1963) 93\*; Lai et Wang-Yang (1976) 171.
- Marsupella revoluta** (Nees) Lindb. Nakanishi (1963) 325; Kitagawa (1963) 102\*, (1967) 203; Noguchi, Takaki et Inoue (1966) 382; Hattori (1966) 523, (1968a) 282, (1975a) 232; Kitagawa (1972) 452; Lai et Wang-Yang (1976) 171; Lin (1981) 361; Vana (1976) 188; Lin et Tsai (1984) 96; Li *et al.* (1985) 503\*.
- Marsupella rubida** (Mitt.) Grolle Kitagawa (1972) 453; Hattori (1975a) 232; Lai et Wang-Yang (1976) 171.
- Marsupidium knightii** Mitt. Grolle (1962) 143; Lai et Wang-Yang (1976) 171; Piippo (1985) 94.
- Mastigobryum formosae** Steph. (1908) 3: 466; Hattori (1960) 34.=*Bazzania tridens* var. *assamica*.
- Mastigolejeunea formosensis** Steph. (1912) 4: 769; Horikawa (1934) 250; Lai et Wang-Yang (1976) 171.
- Mastigolejeunea humilis** (Gott.) Schiffn. Mizutani (1961) 158\*, (1977) 133; Shin (1966) 209, (1970) 45; Lai et Wang-Yang (1976) 171; Yamada *et al.* (1981) 114; Li *et al.* (1985) 530\*.
- Mastigolejeunea liukuensis** (Horik.) Hatt var. *mayebarae* Hatt. Hattori (1951a) 299\*=*M. humilis*.
- Mastigolejeunea repleta** (Tayl.) Steph. Kitagawa (1981) 71.
- Mastigophora diclados** (Brid.) Dum. Horikawa (1935a) 501; Hattori (1942a) 474, (1952b) 38; Shin (1968) 196; Hattori et Mizutani (1969) 93; Lai et Wang-Yang (1976) 171; Lai (1977) 154; Inoue (1978a) 96; Wu (1984) 222; Chau et Wu (1987) 124.

- Mastigophora spinosa* Horikawa (1931) 634\*, Hattori (1960) 35.=*Chandonanthus hirtellus*.  
*Mastigophora woodsii* (Hook.) Nees Inoue (1978a) 98; Chau et Wu (1987) 124.  
*Megaceros flagellaris* (Mitt.) Steph. Hasegawa (1983) 235.  
*Megaceros tosanus* Steph. Horikawa (1934) 290, (1939) 869\*; Hattori (1944) 186; Herzog et Noguchi (1955) 30; Shin (1968) 213, (1970) 50; Iwatsuki et Mizutani (1972) 372; Inoue (1975) 158\*; Lai et Wang-Yang (1976) 171; Lin (1981) 360; Fritsch (1982) 35.=*M. flagellaris*.  
*Metacalypogeia alternifolia* (Nees) Grolle Hattori (1966) 507, (1968a) 282 Noguchi, Takaki et Inoue (1966) 385; Iwatsuki et Mizutani (1972) 282; Lai et Wang-Yang (1976) 171; Inoue (1981) 68; Long (1979) 58; Li *et al.* (1985) 480\*.  
*Metacalypogeia cordifolia* (Steph.) Inoue Inoue (1963) 218; Iwatsuki et Mizutani (1972) 282\*; Lai et Wang-Yang (1976) 171.  
*Metacalypogeia remotifolia* (Herz.) Inoue (1963) 218\*; Lai et Wang-Yang (1976) 171.  
*Metzgeria albinea* Spruce Yamada *et al.* (1986) 63.  
*Metzgeria conjugata* Lindb. Horikawa (1934) 131, (1939) 811\*; Yang (1960) 234; Inoue (1975) 134\*; Li *et al.* (1985) 459\*; Gao et Zhang (1981) 173\*.  
*Metzgeria conjugata* Lindb. ssp. *japonica* (Hattori) Kuwahara Inoue (1961) 185; Hattori (1966) 534; Kuwahara (1965) 169, (1968) 161, (1965a) 293; Iwatsuki et Mizutani (1972) 359\*; Lai et Wang-Yang (1976) 172; Lin (1981) 360.=*M. minor*.  
*Metzgeria fauriana* Steph. (1917) 6: 50; Horikawa (1934) 130; Kuwahara (1977) 140; Lai et Wang-Yang (1976) 172.  
*Metzgeria fruticulosa* (Dicks.) Evans Horikawa (1934) 129, (1936b) 202; Hattori (1944) 161; Kuwahara (1958) 131\*; Yang et Lee (1964) 186; Shin (1968) 211, Lai et Wang-Yang (1976) 172.  
*Metzgeria furcata* (Linn.) Lindb. Horikawa (1934) 130; Kamimura (1939) 66; Kuwahara (1958) 131\*; Yang (1960) 233; Lai et Wang-Yang (1976) 172; Gao et Zhang (1981) 171\*.  
*Metzgeria hamata* Lindb. Horikawa (1934) 130; Kamimura (1939) 66; Kuwahara (1958) 135\*, (1960) 13\*; Hattori (1944) 162, (1968a) 283; Lai et Wang-Yang (1976) 172.=*M. leptoneura*.  
*Metzgeria leptoneura* Spruce. Kuwahara (1986) 134\*.  
*Metzgeria lindbergii* Schiffn. Herzog et Noguchi (1955) 30; Lai et Wang-Yang (1976) 172; Yamada *et al.* (1986) 63.=*M. minor*.  
*Metzgeria minor* (Schiffn.) Kuw.  
*Metzgeria pubescens* (Schrank) Raddi Horikawa (1934) 128, (1939a) 359; Hattori (1944) 163; Nakanishi (1963) 321; Li *et al.* (1985) 461; Gao et Zhang (1981) 173\*.  
*Metzgeria subhamata* Hattori in Herzog et Noguchi (1955) 30\*; Hattori (1960) 35; Inoue (1965) 275; Inoue et Miller (1967) 16; Lai et Wang-Yang (1976) 172.=*M. leptoneura*.  
*Microlejeunea lunulatiloba* Horikawa Horikawa (1934) 276; Lai et Wang-Yang (1976) 172.  
*Microlejeunea punctifomis* (Tayl.) Spruce Horikawa (1934) 276; Stephani (1915) 5: 832; Herzog et Noguchi (1955) 51; Hattori (1944) 121; Chen et Wu (1964) 243; Lai et Wang-Yang (1976) 172.=*Lejeunea ulicina*.  
*Microlejeunea ramulosa* Herzog in Herzog et Noguchi (1955) 51\*; Lai et Wang-Yang (1976) 172.=*Lejeunea ramulosa*.  
*Microlejeunea subacuta* Horikawa (1934) 275; Chen et Wu (1964) 243; Hattori (1960) 36; Lai et Wang-Yang (1976) 172.=*Drepanolejeunea subacuta*.  
*Microlejeunea sundaica* Steph. Herzog et Noguchi (1955) 54; Lai et Wang-Yang (1976) 172.  
*Microlejeunea ulicina* (Tayl.) Evans Yang (1960) 233.=*Lejeunea ulicina*.  
*Microlepidozia makinoana* (Steph.) Hattori Hattori et Mizutani (1958) 88\*; Hong (1966) 398.=*Kurzia makinoana*.

- Microlepidozia setacea* (Web.) Joerg. Schuster (1969) 57\*.
- Monosolenium tenerum* Griff. Yang (1965) 29\*; Inoue (1975) 136\*; Lai et Wang-Yang (1976) 172; Lin (1981) 360.
- Mylia nuda* Inoue et Yang (1966) 35; Inoue (1968) 400, (1972) 347; Lai et Wang-Yang (1976) 172; Fritsch (1982) 37; Vana et Inoue (1983) 126; Wu (1984) 222.
- Mylia taylori* (Hook.) S. F. Gray Inoue et Yang (1966) 36; Hattori (1971a) 228, (1985a) 220; Vana et Inoue (1983) 126; Lai et Wang-Yang (1976) 172.
- Mylia verrucosa* Lindb. Inoue (1958) 31\*; Hattori (1944) 36, (1952) 16, (1953a) 16; Iwatsuki et Mizutani (1972) 296; Lai et Wang-Yang (1976) 172; Lai (1977) 154; Lin (1981) 360; Fritsch (1982) 37; Gao et Zhang (1981) 86\*.
- Mylia verrucosa* auct. non. Lindb.: Inoue (1961) 185, (1973) 58\*. = *M. nuda*.
- Nardia assamica* (Mitt.) Amak. Vana et Inoue (1983) 140.
- Nardia comata* Schiffn. Horikawa (1926) 39. = *Solenostoma comatum*.
- Nardia crenulata* (Sm.) S. C. Lindb. Yang et Lee (1964) 185.
- Nardia gray* Corr. Carr. Yang (1960) 232.
- Nardia scalaris* (Schrad.) S. F. Gray Amakawa (1957) 167; Yang (1960) 232; Vana et Inoue (1983) 140.
- Nardia sieboldii* (Sde. Lac.) St. Lin (1981) 362.
- Nipponolejeunea pilifera* (Steph.) Hattori (1944) 125\*, (1952c) 35; Mizutani (1961) 142; Hong (1966) 413; Nakkanishi (1963) 322; Iwatsuki et Mizutani (1972) 336\*; Inoue (1969a) 158, (1973) 146\*, (1981) 69; Lai et Wang-Yang (1976) 172; Grolle (1981) 149; Inoue, Asakawa et Gradstein (1981) 141.
- Nipponolejeunea subalpina* (Horik.) Hattori Mizutani (1961) 143; Inoue (1969a) 157\*; Lai et Wang-Yang (1976) 172; Grolle (1981) 149.
- Noguchia mayebarae* (Hatt.) Hatt. Inoue (1958a) 101\*. = *Plagiochilium mayebarae*.
- Noguchia opposita* (R. B. N.) Inoue (1958a) 102\*. = *Plagiochilium oppositus*.
- Notoscyphus lutescens* (Lehm. et Lindb.) Mitt. Hattori (1968) 292; Inoue (1975) 10\*; Lai et Wang-Yang (1976) 172; Vana et Inoue (1981) 127; Yamada *et al.* (1986) 63.
- Notoscyphus paroicus* Schiffn. Inoue (1961) 185; Lai et Wang-Yang (1976) 172; Lin (1981) 361. = *N. lutescens*.
- Notoscyphus javanica* (Sande Lac.) Gott. Hasegawa (1979) 23\*, (1980) 301\*.
- Notoscyphus japonica* Horikawa Horikawa (1939) 871\*; Hattori (1944) 187; Iwatsuki et Mizutani (1972) 372\*; Lai et Wang-Yang (1976) 172; Hasegawa (1980) 288\*; Gao et Zhang (1981) 204\*.
- Notoscyphus japonicus* auct. non Horikawa: Horikawa (1934) 293. = *N. javanicus*.
- Notoscyphus orbicularis* (Schwein.) Sull. Inoue (1975) 162\*.
- Nowellia curvifolia* Steph. Horikawa (1934) 178, (1939) 831\*, (1935) 412; Hattori (1952b) 43, (1944) 75; Shin (1968) 198, (1970) 32; Grolle (1968b) 25\*; Iwatsuki et Mizutani (1972) 318\*; Lai et Wang-Yang (1976) 172; Lai (1977) 154; Lin (1981) 361; Chiang et Lin (1984) 34.
- Odontoschisma cavifolium* Steph. Horikawa (1934) 179; Hattori (1944) 76\*. = *O. denudatum* var. *cavifolium*.
- Odontoschisma denudatum* (Nees) Dum. var. *cavifolium* (Steph.) Hattori (1950a) 60; Lai et Wang-Yang (1976) 172. = *O. denudatum*.
- Odontoschisma denudatum* (Nees) Dum. Horikawa (1934) 180; Hattori (1952b) 44, (1971a) 232; Inoue (1981) 70, (1973) 126\*; Lai et Wang-Yang (1976) 172.
- Odontoschisma grosseverrucosum* Steph. (1908) 3: 377; Horikawa (1934) 180; Hattori (1944) 76\*, (1952b) 44; Iwatsuki et Mizutani (1972) 319; Lai et Wang-Yang (1976) 172; Lai (1977) 154.



- Odontoschisma speciosum* Horikawa (1934) 181\*; Hattori (1960) 37; Lai et Wang-Yang (1976) 172.=*Notoscyphus lutescens*.
- Orthocaulis attenuatus* (Mart.) Evans Yang (1960) 232.
- Pallavicinia ambigua* (Mitt.) Steph. Inoue (1981a) 108; Grolle et Piippo (1986) 63\*.
- Pallavicinia gray* Corr. Yang (1960) 233.
- Pallavicinia isoblata* (Herz.) Schust. et Inoue Inoue (1975) 118\*.=*P. ambigua*.
- Pallavicinia levieri* Schiffn. Herzog et Noguchi (1955) 31; Lai et Wang-Yang (1976) 172.
- Pallavicinia longispina* Steph. Horikawa (1934) 132, (1939) 811\*; Hattori (1944) 160; Yang (1960) 233; Inoue (1961) 185, (1969a) 49\*, (1975) 116; Shin (1968) 210, (1970) 47; Iwatsuki et Mizutani (1972) 355\*; Lai et Wang-Yang (1976) 172; Lai (1977) 154; Lin (1981) 360; Fritsch (1982) 39.
- Pallavicinia lyellii* (Hook.) Gray Horikawa (1934) 132, (1936d) 556; Hattori (1944) 160; Inoue (1961) 185; Shin (1968) 210, (1970) 47; Lai et Wang-Yang (1976) 172; Fritsch (1982) 39.
- Pallavicinia nigricans* Herz. Lai et Wang-Yang (1976) 172.=*P. ambigua*.
- Paraschistochila nuda* (Horik.) Inoue Inoue (1973) 22\*.=*Gottschea nuda*.
- Paraschistochila philippinensis* (Mont.) Schust. Lai (1976) 99\*.=*Gottschea philippinensis*.
- Pedinolejeunea aoshimensis* (Horik.) Chen et Wu (1964) 270; Anonymous (1972) 23\*; Li *et al.* (1985) 542\*.=*Cololejeunea aoshimensis*.
- Pedinolejeunea formosana* (Mizutani) Chen et Wu (1964) 264; Li *et al.* (1985) 542.=*Cololejeunea formosana*.
- Pediolejeunea lanciloba* (Steph.) Chen et Wu (1964) 266.=*Cololejeunea lanciloba*.
- Pediolejeunea liukiensis* (Horik.) Chen et Wu (1964) 271.=*Cololejeunea stylosa*.
- Pediolejeunea nakaii* (Horikawa) Chen et Wu (1964) 271.=*Cololejeunea verrucosa*.
- Pediolejeunea planissima* (Mitt.) Chen et Wu (1964) 271.=*Cololejeunea planissima*.
- Pellia endiviaefolia* (Dicks.) Dum. Shin (1968) 210, (1970) 47; Lai et Wang-Yang (1976) 172.
- Pellia epiphylla* (L.) CDA. Yang (1960) 233.
- Pellia fabbrioniana* Raddi Horikawa (1934) 135; Hattori (1944) 158.=*P. endiviaefolia*.
- Pellia neesiana* (Gott.) Limpr. Horikawa (1934) 134, (1939) 813\*, (1935) 410, (1935c) 212, (1936c) 380; Hattori (1944) 158; Lai et Wang-Yang (1976) 172.
- Phaeoceros laevis* (L.) Prosk. Fritsch (1982) 42.
- Phaeoceros laevis* ssp. *carolinianus* (Michx.) Prosk. Lai et Wang-Yang (1976) 172; Lin (1981) 360.
- Phaeoceros miyakeanus* (Schiffn.) Hatt. Hasegawa (1984a) 249.
- Phaeolejeunea latistipula* (Schiffn.) Mizutani (1968) 131; Lai et Wang-Yang (1976) 173.
- Phragmatocolea innovata* (Herz.) Grolle Inoue (1961) 185; Lai et Wang-Yang (1976) 172.=*Jungermannia truncata*.
- Physocolea leptolejeuneoides* Schiffn. Horikawa (1934) 288; Kamimura (1939) 77.=*Cololejeunea minuta*.
- Physocolea magnilobula* Horikawa (1934) 288\*; Hattori (1960) 38.=*Cololejeunea magnilobula*.
- Physocolea oshimensis* Horikawa Horikawa (1934) 285.=*Cololejeunea inflata*.
- Physocolea papillosa* Horikawa (1934) 287; Kamimura (1939) 77.=*Cololejeunea macounii*.
- Physocolea shikokiana* Horikawa Horikawa (1934) 287; Kamimura (1939) 78.=*Cololejeunea shikokiana*.
- Physocolea spinosa* Horikawa Horikawa (1934) 286; Kamimura (1939) 78.=*Cololejeunea spinosa*.
- Plagiochasma appendiculatum* Lehm. et Lindb. Bischler (1979) 29; Fritsch (1982) 42.
- Plagiochasma cordatum* Lehm. et Lindb. Long (1979) 55; Bischler (1979) 48.

- Plagiochasma intermedium** Lindb. et Gott. Horikawa (1934) 109, (1936c) 380; Hattori (1948b) 49\*, (1968a) 283; Inoue (1975) 144\*; Hattori (1950c) 49\*; Gao et Zhang (1981) 182\*; Lai et Wang-Yang (1976) 172; Li *et al.* (1985) 545\*.
- Plagiochasma japonicum** (Steph.) Mass. Fritsch (1982) 43.
- Plagiochasma pterospermum** Mass. Bischler (1979) 56.
- Plagiochasma reboulioides** Horikawa (1935e) 672\*; Hattori (1960) 39; Lai et Wang-Yang (1976) 172.=*P. appendiculatum*.
- Plagiochasma rupestre** (Forster) Steph. Horikawa (1934d) 588\*; Bischler (1979) 62; Fritsch (1982) 43.
- Plagiochasma sessilicephalum** Horikawa (1934) 109\*, (1939) 797\*; Hattori (1960) 39; Lai et Wang-Yang (1976) 172.=*P. pterospermum*.
- Plagiochila acanthophylla** Gott. Yang et Lee (1964) 185.=*P. sciophila*.
- Plagiochila acanthophylla ssp. japonica** (Lac.) Inoue (1962b) 100; Shin (1968) 200, (1970) 34; Inoue (1969a) 60\*, (1973) 100\*; Lai et Wang-Yang (1976) 173; Iwatsuki et Mizutani (1972) 31\*.=*P. sciophila*.
- Plagiochila arbuscula** (Brid. ex Lehm. et Lindb.) Lindb. Shin (1970) 34, Inoue (1972) 349, (1982) 131, (1982a) 54, (1984a) 64.
- Plagiochila asplenioides** (Linn.) Dum. ssp. *ovalifolia* (Mitt.) Inoue (1958) 45\*.=*P. ovalifolia*.
- Plagiochila belangeriana** Lindb. Inoue (1958a) 69, (1965) 275; Yang et Lee (1964) 185; Hattori (1968) 293; Shin (1968) 20.=*P. arbuscula*.
- Plagiochila blepharophora** (Nees) Nees Herzog et Noguchi (1955) 34; Inoue (1958a) 86, (1982) 134, (1982a) 134; Shin (1968) 35; Lai et Wang-Yang (1975) 173.
- Plagiochila brauniana** (Nees) Lindb. sensu Horikawa (1934) 159.=*Plagiochilium mayebarae*.
- Plagiochila chinensis** Steph. Inoue (1959c) 91\*, (1961) 186, (1968) 400, (1974) 106, (1982) 139; Hattori (1966) 514; Lai et Wang-Yang (1976) 173; Long (1979) 57; Fritsch (1982) 44; Yamada *et al.* (1986) 63; Inoue (1987) 41.
- Plagiochila crassitexta** Steph. Inoue (1972b) 29, Lai et Wang-Yang (1976) 173.=*P. philippinensis*.
- Plagiochila dendroides** (Nees) Lindb. Yang (1960) 232; Inoue (1973) 102\*, (1982) 130, (1984a) 50; Lai et Wang-Yang (1976) 173.
- Plagiochila eberhaldtii** Steph. Inoue (1982) 134.
- Plagiochila elegans** Mitt. Inoue (1963) 220, (1964b) 353, (1974) 108, (1982) 139; Hattori (1966) 515; Lai et Wang-Yang (1976) 173; Long (1979) 57; Inoue (1987) 42.
- Plagiochila euryphyllon** Card. Lai et Wang-Yang (1976) 173; Inoue (1982a) 51.
- Plagiochila euryphyllon auct. non Card.** sensu Inoue (1962b) 96.=*P. sciophila*.
- Plagiochila euryphyllon ssp. echinata** Hattori (1981a) 25.
- Plagiochila firma** Mitt. Noguchi, Takaki et Inoue (1966) 383; Hattori (1975a) 222; Inoue (1982) 142.=*P. gracilis*.
- Plagiochila firma ssp. rhizophora** (Hatt.) Inoue Nakanishi (1963) 323.=*P. gracilis*.
- Plagiochila firma var. acicularis** (Herz.) Inoue (1960) 34, (1966) 515, (1961) 185; Lai et Wang-Yang (1976) 173.=*P. gracilis*.
- Plagiochila flexuosa** Mitt. Hattori (1975a) 222; Inoue (1982) 142, (1982b) 326\*, (1987) 43.
- Plagiochila fordiana** Steph. Inoue (1982) 133.
- Plagiochila formosae** Steph. (1918) 6: 157; Horikawa (1934) 162; Hattori (1960) 39.=*P. trabeculata*.
- Plagiochila frondescens** Lindb. sensu Steph. (1902) 2: 284.=*P. pulcherrima*.
- Plagiochila fruticosa** Mitt. Okamura (1916) 2; Kamimura (1952) 111; Inoue (1958a) 93\*; Hattori (1966) 516; Shin (1968) 200; Lai et Wang-Yang (1976) 173; Lai (1977) 154; Iwatsuki et Mizutani (1972) 312\*; Inoue (1982) 131, (1987) 43.

- Plagiochila gollanii** Steph. Inoue (1960) 29, (1961) 186; Noguchi, Takaki et Inoue (1966) 383; Hattori (1966) 516, (1975a) 223; Lai et Wang-Yang (1976) 173, Lai (1977) 154; Inoue (1982) 140, (1987) 43.
- Plagiochila grandis** Y. Yang (1960) 232.
- Plagiochila gracilis** Lindb. et Gott. Inoue (1987) 43.
- Plagiochila griffithiana** Steph. Inoue (1982a) 53.
- Plagiochila gymnoclada** S. Lac. Inoue (1982) 139.
- Plagiochila hattoriana** Inoue Inoue (1982) 133; Yamada *et al.* (1986) 63.
- Plagiochila integrilobula** Schiffn. Inoue (1982) 134, (1984a) 33.
- Plagiochila ishiduchiensis** Hor. Kamimura (1952) 111.
- Plagiochila japonica** Sande Lac. Yang (1960) 232; Inoue (1958a) 55\*, (1981) 186; Hong (1966) 406.=*P. sciophila*.
- Plagiochila japonica f. oblongifolia** Hatt. Inoue (1958a) 57\*.=*P. sciophila*.
- Plagiochila khasiana** Mitt. Inoue (1982) 140; Wu (1984) 222.
- Plagiochila magna** Inoue Inoue (1982) 139.
- Plagiochila magnifolia** Horikawa (1934) 161\*; Inoue (1958) 59; Hattori (1960) 40.=*P. elegans*.
- Plagiochila makinoana** Hatt. Inoue (1958a) 71\*.=*P. gollanii*.
- Plagiochila massalongoana** Schiffn. Inoue (1982) 133.
- Plagiochila microdonta** Mitt. Inoue (1982) 140, (1984a) 133.
- Plagiochila minor** Horik. Horikawa (1934) 163, (1936d) 556.=*P. trabeculata*.
- Plagiochila minutistipula** Herzog in Herzog et Noguchi (1955) 34\*; Hattori (1960) 41.=*P. sciophila*.
- Plagiochila multipinnula** Herzog et Hatt. in Herzog et Noguchi (1955) 36\*; Inoue (1958a) 97, (1982) 131; Hattori (1960) 41; Lai et Wang-Yang (1976) 173.
- Plagiochila nuda** Horikawa (1934) 159\*; Hattori (1960) 41.=*Syzygiella securifolia*.
- Plagiochila oblonga** Inoue Inoue (1982) 142.
- Plagiochila opposita** (R. B. N.) Dum. Horikawa (1934) 159, (1936a) 667; Hattori (1942) 67, (1944) 59.=*Plagiochilion oppositus*.
- Plagiochila ovalifolia** Mitt. Inoue (1961) 186; Shin (1968) 201, (1970) 35; Inoue (1973) 104\*, (1969a) 102\*, (1974) 108, (1982) 139; Iwatsuki et Mizutani (1972) 310; Lai et Wang-Yang (1976) 173; Inoue (1981) 70; Lin et Tsai (1984) 97; Li *et al.* (1985) 483\*.
- Plagiochila ovalifolia f. descendens** S. H. Yang et Lee (1964) 185.
- Plagiochila ovalifolia var. miyoshiana** Nakanishi (1963) 323.
- Plagiochila peculiaris** Schiffn. Inoue (1982) 136.
- Plagiochila permagna** Schiffn. Inoue (1962) 102.=*P. elegans*.
- Plagiochila perserrata** Herz. Inoue (1982) 138, (1987) 44.
- Plagiochila philippinensis** Steph.
- Plagiochila pulcherrima** Horik. Horikawa (1934) 162, (1939) 823\*; Hattori (1942) 68, (1944) 62, (1952c) 22; Inoue (1958a) 95\*, (1968) 400, (1962) 102, (1961) 186, (1974) 106, (1982) 130, (1984a) 50; Shin (1968) 201; Iwatsuki et Mizutani (1972) 312; Lai et Wang-Yang (1976) 173; Fritsch (1982) 95.
- Plagiochila robustissima** Horikawa (1932) 78\*, (1934) 160; Hattori (1960) 42.=*P. semidecurrans*.
- Plagiochila sawadae** Inoue (1959c) 91\*; Lai et Wang-Yang (1976) 173; Inoue (1982) 138, (1987) 45.
- Plagiochila sciophila** Nees Inoue (1982) 143, (1982a) 51; Yamada *et al.* (1986) 63; Inoue (1987) 45.
- Plagiochila secretifolia** Mitt. Inoue (1982) 142, (1987) 46.
- Plagiochila semidecurrans** Lehm. et Lindb. Hattori (1948) 29, (1952c) 22, (1966) 519, (1975a) 224; Inoue (1961) 186, (1963) 221, (1958a) 79\*, (1965a) 212\*, (1975) 30\*, (1981) 71, (1981) 138, (1982b) 326, (1984a) 98\*, Nakanishi (1963) 323; Iwatsuki et Mizutani (1972) 311\*; Noguchi, Takaki et Inoue (1966) 383; Long (1979) 57; Lai et Wang-Yang (1976)

- 173; Li *et al.* (1985) 486\*; Inoue (1987) 46.
- Plagiochila semidecurrens* f. *undulata* (Carl) Inoue (1958a) 81.=*P. semidecurrens*.
- Plagiochila semidecurrens* var. *yakushimensis* Hattori (1948) 29.=*P. semidecurrens*.
- Plagiochila sikutzuisana* Mass. Inoue (1982) 139.
- Plagiochila singularis* Schiffn. Inoue (1984a) 118.
- Plagiochila sinulosa* (Dicks.) Dum. Yang (1960) 232.
- Plagiochila stenophylla* Schiffn. Inoue (1982) 133.=*P. singularis*.
- Plagiochila subacanthophylla* Herzog in Herzog et Noguchi (1955) 37\*; Hattori (1960) 43.=*P. sciophila*.
- Plagiochila taiwanensis* Inoue (1982) 136\*, (1984) 347.
- Plagiochila tobagensis* Herzog et Hattori in Herzog et Noguchi (1955) 37\*; Hattori (1960) 43; Lai et Wang-Yang (1976) 173.=*P. integrilobula*.
- Plagiochila trabeculata* Steph. Hattori (1948) 31, (1944) 64, (1950b) 141, (1952c) 22; Inoue (1958a) 75\*, (1962) 102, (1973) 108\*, (1981) 71, (1982) 142; Shin (1968) 201, (1970) 35; Iwatsuki et Mizutani (1972) 310\*; Lai (1977) 155; Lai et Wang-Yang (1976) 173; Li *et al.* (1985) 142; Inoue (1987) 47.
- Plagiochila trabeculata* f. *bifida* (S. Hatt.) S. Hattori (1950b) 141.=*P. trabeculata*.
- Plagiochila unialata* Inoue (1969b) 112\*; Lai et Wang (1976) 173; Yamada *et al.* (1981) 114.=*P. sawadae*.
- Plagiochila vietnamica* Inoue Inoue (1982) 136.
- Plagiochila wangii* Inoue (1962a) 187\*; Lai et Wang-Yang (1976) 173; Inoue (1982) 140.
- Plagiochila yokogurensis* Steph. Inoue (1982) 133, (1982a) 47.
- Plagiochila zonata* Steph. Horikawa (1951a) 88; Inoue (1982) 143.
- Plagiochilium braunianus* (Nees) Hattori Hattori (1948) 33, (1952c) 23.
- Plagiochilium mayebarae* Hattori Inoue (1964a) 65\*, (1975) 32\*, (1981) 71, (1982) 126; Hattori (1966) 521; Iwatsuki et Mizutani (1972) 313\*; Lai et Wang-Yang (1976) 173; Li *et al.* (1985) 482\*.
- Plagiochilium oppositus* (R. B. N.) Hattori Hattori (1952c) 23, (1968) 293; Inoue (1961) 186, (1964a) 61\*, (1982) 126; Lai et Wang-Yang (1976) 177.
- Plectocolea comata* (Nees) Hattori Hattori (1952b) 48.=*Solenostoma comata*.
- Plectocolea hyalina* (Lyell) Mitt. Yang (1960) 232.
- Plectocolea setulosa* Herzog in Herzog et Noguchi (1955) 33\*; Amakawa (1963) 20.=*Jungermannia truncata*.
- Plectocolea sordida* Hattori in Herzog et Noguchi (1955) 34\*; Amakawa (1963) 20; Hattori (1960) 45. non *Jungermannia sordida* Nees=*J. truncata*.
- Pleurozia acinosa* (Mitt.) Schiffn. Inoue (1969) 301, (1973) 138\*; Kitagawa (1979) 40; Lai et Wang-Yang (1976) 173; Lai (1977) 155.
- Pleurozia arcuata* Horikawa Horikawa (1930) 21\*, (1934) 228, (1929) 58\*; Hattori (1960) 45.=*P. purpurea*.
- Pleurozia giganteoides* Horikawa Horikawa (1949) 141; Hattori (1952c) 21; Iwatsuki et Mizutani (1972) 325\*; Lai et Wang-Yang (1976) 173; Lai (1977) 155; Kitagawa (1979) 40.=*Eopleurozia giganteoides*.
- Pleurozia purpurea* (Lightf.) Lindb. Hattori (1966) 523, (1968a) 285; Ikegami (1957) 66\*; Inoue (1971) 356; Iwatsuki et Mizutani (1972) 325\*; Lai et Wang-Yang (1976) 173.
- Porella acutifolia* (Lehm. et Lindb.) Trev. Lin (1981) 361.
- Porella acutifolia* ssp. *tosana* (Steph.) Hattori (1978) 100.
- Porella caespitans* (Steph.) Hattori Inoue (1973) 140\*; Lai et Wang-Yang (1976) 173; Hattori et Zhang (1985) 321.
- Porella caespitans* var. *nipponica* Hattori (1970) 57\*, (1971a) 232, (1978) 101; Lai et Wang-

Yang (1976) 173.

**Porella caespitans** var. **cordifolia** (Steph.) Hattori.

*Porella caespitans* var. *setigera* (Steph.) Hattori (1970) 53, (1978) 101; Iwatsuki et Mizutani (1972) 327\*; Lai et Wang-Yang (1976) 173.=*P. caespitans* var. *cordifolia*.

*Porella campylophylla* (Lehm. et Lindb.) Trev. ssp. *tosana* (Steph.) Hattori Iwatsuki et Mizutani (1972) 327\*; Lai et Wang-Yang (1976) 173.=*P. acutifolia* ssp. *tosana*.

**Porella densifolia** (Steph.) Hattori (1944a) 109, (1968a) 284, (1948b) 43, (1950c) 43, (1952c) 27, (1978) 103; Inoue (1961) 187; Lai et Wang-Yang (1976) 172; Li *et al.* (1985) 519\*; Hattori et Zhang (1985) 322.

**Porella gracillima** Mitt. var. **urogea** (Massal.) Hattori (1971) 420\*, (1976) 122, (1978) 104; Lai et Wang-Yang (1976) 173; Udar et Shaheen (1982) 119\*; Lin (1985) 17; Hattori et Zhang (1985) 323.

**Porella grandiloba** Lindb. Hattori (1952c) 27, (1978) 104; Inoue (1969a) 104\*, (1975) 58\*; Iwatsuki et Mizutani (1972) 328\*; Lai et Wang-Yang (1976) 173.

**Porella japonica** (Sande-Lac.) Mitt. Hattori (1944) 88, (1952c) 27, (1977a) 162, (1978) 104, (1967) 136; Inoue (1959) 209, (1975) 60\*; Hong (1966) 409; Pócs (1968) 87\*; Iwatsuki et Mizutani (1972) 328\*; Lai et Wang-Yang (1976) 173; Fritsch (1982) 47; Gao et Zhang (1981) 138\*; Li *et al.* (1985) 518\*; Hattori et Zhang (1985) 324.

*Porella japonica* f. *pusilla* (Steph.) Pócs Lai et Wang-Yang (1976) 171.=*P. japonica*.

*Porella macroloba* (Steph.) Hatt. et Inoue Inoue (1959) 209, (1961) 187; Nakanishi (1963) 319; Hattori (1976) 125; Lai et Wang-Yang (1976) 172; Li *et al.* (1985) 514\*.=*P. obtusata* f. *macroloba*.

*Porella nittakensis* (Horik.) Hattori (1944a) 110, (1969) 349.=*P. gracillima* var. *urogea*.

**Porella obtusata** (Tayl.) Trev. f. **macroloba** (Steph.) Hattori (1978) 106; Hattori et Zhang (1985) 325.

*Porella parvistipula* (Steph.) Hattori (1944) 90, (1944a) 106\*.=*P. grandiloba*.

**Porella perrottetiana** (Mont.) Trev. Inoue (1969a) 63\*; Hattori (1971a) 232, (1978) 106; Iwatsuki et Mizutani (1972) 326\*; Lai et Wang-Yang (1976) 173; Fritsch (1982) 47; Li *et al.* (1985) 520\*; Hattori et Zhang (1985) 325.

*Porella perrottetiana* (Mont.) Nees Hattori (1952c) 27; Yamada *et al.* (1981) 114.=*P. perrottetiana* (Mont.) Trev.

*Porella perrottetiana* (Mont.) Hattori (1944) 90, (1944d) 5\*; Hong (1966) 409; Shin (1968) 203.=*P. perrottetiana* (Mont.) Trev.

**Porella plumosa** (Mitt.) Inoue Hattori (1975a) 233, (1978) 106; Lai et Wang-Yang (1976) 173; Hattori (1970) 82; Kitagawa (1979) 40.

*Porella setigera* Steph. Hattori (1952c) 27; Inoue (1961) 187; Hong (1966) 409; Shin (1968) 203.=*P. caespitans* var. *cordifolia*.

*Porella setigera* Steph. var. *nipponica* (Hatt.) Lou in Li *et al.* (1985) 518\*.=*P. caespitans* var. *nipponica*.

*Porella thuja* (Dicks.) Moore Pocs (1968) 84\*, (1970) 82\*; Lai et Wang-Yang (1976) 173.=*P. obtusata* f. *macroloba*.

*Porella tosana* (Steph.) Hattori Hattori (1944) 91, (1952c) 28; Hong (1966) 409; Shin (1970) 36.=*P. acutifolia* ssp. *tosana*.

**Porella ulophylla** (Steph.) Hattori Inoue (1981) 71.

**Porella vernicosa** Lindb. Shin (1970a) 25.

**Preissia quadrata** (Scop.) Nees Yang et Lee (1964) 186.

**Prinolejeunea ungulata** Herzog in Herzog et Noguchi (1955) 45\*; Amakawa (1961) 401\*; Shin (1970) 45; Mizutani (1975) 262, (1977) 134; Lai et Wang-Yang (1976) 174.

**Pseudolepicolea andoi** (Schust.) Inoue (1978a) 94.

- Pseudolepicolea trolii* auct. non (Herz.) Grolle et Ando Nakanishi (1963) 322; Inoue (1966) 39; Hattori (1966) 504; Lai et Wang-Yang (1976) 174.=*P. andoi*.
- Pseudolepicolea trolii* ssp. *andoi* (Schust.) Hatt. et Mizutani (1968) 256\*; Iwatsuki et Mizutani (1972) 269\*; Lai et Wang-Yang (1976) 174.=*P. andoi*.
- Ptychanthus integerrimus* Horikawa (1934) 245\*; Hattori (1960) 47; Chen et Wu (1964) 225.=*P. striatus*.
- Ptychanthus madothecoides* Horikawa (1934) 248\*; Hattori (1960) 47.=*Spruceanthus semi-repanuds*.
- Ptychanthus sexplicatus* Horikawa (1934) 247\*, (1939) 857\*, (1939b) 396; Hattori (1960) 47.=*Spruceanthus polymorpus*.
- Ptychanthus striatus*** (Lehm. et Lindb.) Nees Horikawa (1934) 248, (1939) 857\*, (1952) 87, (1955) 96; Hattori (1944) 126, (1952c) 32; Inoue (1961) 188, (1975) 80\*; Mizutani (1961) 148; (1977) 134; Shin (1968) 209, (1970) 45; Nakanishi (1963) 319; Yang et Lee (1965) 185; Lai et Wang-Yang (1976) 174; Kitagawa (1973) 269; Noguchi, Takaki et Inoue (1966) 386; Lin (1981) 360; Iwatsuki et Mizutani (1983) 194; Yamada *et al.* (1981) 144; Li *et al.* (1985) 528\*.
- Ptychocoleus hasskarlianus* (Gott.) Steph. Amakawa (1960a) 363\*; Lai et Wang-Yang (1976) 174; Lin (1981) 361.=*Schiffneriolejeunea tumida*.
- Ptycholejeunea nipponicus*** Hatt. Lin (1981) 361.
- Pycnolejeunea badia* Steph. Mizutani (1978) 133.=*Lepidolejeunea badia*.
- Pycnolejeunea bidentula* Steph. Mizutani (1967) 176; Shin (1970) 45; Lai et Wang-Yang (1976) 174.=*Lepidolejeunea bidentula*.
- Pycnolejeunea ceylanica* (Gott.) Steph. Horikawa (1934) 173; Herzog et Noguchi (1955) 47; Lai et Wang-Yang (1976) 174.=*Cheilolejeunea ceylanica*.
- Pycnolejeunea imbricata* (Nees) Steph. Hattori (1951) 55, (1952c) 34; Herzog et Noguchi (1955) 47; Horikawa (1952) 98, (1955) 100.=*Cheilolejeunea imbricata*.
- Pycnolejeunea pellucida* (Horik.) Amakawa (1961) 402.=*Lepidolejeunea badia*.
- Pycnolejeunea pilifera* Steph. Horikawa (1934) 272, (1939) 863\*.=*Nipponolejeunea pilifera*.
- Pycnolejeunea tosana* Steph. Horikawa (1934) 273; Kamimura (1939) 73; Hattori (1944) 128.=*Cheilolejeunea imbricata*.
- Racemigenma densa* Hattori et Inoue (msc.) Inoue (1960) 186.=*Xenochila integrifolia*.
- Radula acuminata*** Steph. Horikawa (1951a) 88, (1954) 227; Inoue (1961) 187, Iwatsuki et Mizutani (1972) 323\*; Lai et Wang-Yang (1976) 174; Yamada (1979) 286\*; Yamada *et al.* (1981) 114; Yamada et Inoue (1988) 46.
- Radula anceps*** S. Lac. Yamada et Inoue (1988) 42.
- Radula apiculata*** Sande Lac. ex Steph. Herzog et Noguchi (1955) 42; Kitagawa (1973) 269; Lai et Wang-Yang (1976) 174; Yamada (1979) 215\*; Yamada et Inoue (1988) 42.
- Radula auriculata*** St. Lin (1981) 361; Lin et Tsai (1984) 97.
- Radula borneensis*** Steph. Yang (1960) 233, (1960a) 36; Yamada (1979) 223\*; Yamada et Inoue (1988) 50 (as uncertain species).
- Radula campanigera*** Mont. Yamada (1984) 45; Yamada et Inoue (1988) 43.
- Radula cavifolia*** Hampe Horikawa (1934) 226; Hattori (1944) 82, (1952c) 26; Hong (1966) 410; Shin (1968) 202; Iwatsuki et Mizutani (1972) 323\*; Kitagawa (1979) 37; Yamada (1979) 296\*; Yamada et Inoue (1988) 46.
- Radula chinensis*** Steph. Yamada (1979) 312; Yamada et Inoue (1988) 43.
- Radula complanata*** (L.) Dum. Okamura (1916) 3; Horikawa (1934) 228; Yang (1960a) 36; Hattori (1952a) 317; Shin (1970) 35; Lai et Wang-Yang (1976) 174; Schuster (1980) 601\*; Gao et Zhang (1981) 133; Yamada et Inoue (1988) 50 (as uncertain species).
- Radula complanata*** (L.) Dum. ssp. *lindbergiana* (G. ex Hartm.) Schuster (1980) 609\*.
- Radula constricta*** Steph. Yamada (1979) 229\*; Inoue (1981) 72; Li *et al.* (1985) 509\*; Yamada *et al.* (1981) 115; Yamada et Inoue (1988) 46.
- Radula fauciloba*** Steph. Kitagawa (1973) 270; Yamada (1973) 99\*; Lai et Wang-Yang (1976) 174.=*R. retroflexa*.

- Radula formosa** (Meiss.) Nees Shin (1968) 202; Yamada et Inoue (1988) 50.
- Radula guatemalensis** Steph. Yang (1960) 233, (1960a) 36; Yamada et Inoue (1988) 50 (as uncertain species). = *R. portoricensis*.
- Radula inouei** Yamada (1979) 262\*; Engel (1984) 776; Yamada et Inoue (1988) 49.
- Radula javanica** Gott. Yamada (1979) 235\*; Yamada *et al.* (1981) 115; Yamada et Inoue (1988) 45.
- Radula japonica** Gott. ex Steph. Yamada et Inoue (1988) 49\*.
- Radula kojana** Steph. Horikawa (1934) 225; Kamimura (1939) 68; Hattori (1952c) 26, (1953) 45, (1944) 82; Hong (1966) 410; Inoue (1965) 276; Shin (1968) 202, (1970) 36; Iwatsuki et Mizutani (1972) 323\*; Chen et Wu (1964) 223; Lai et Wang-Yang (1976) 174; Yamada (1979) 217\*, (1982) 130; Yamada *et al.* (1981) 115; Yamada et Inoue (1988) 42.
- Radula lindbergiana** Gott. Inoue (1961) 187; Lai et Wang-Yang (1976) 174. = *R. complanata* ssp. *lindbergiana*.
- Radula lindbergiana** auct. non Gott.: Herzog et Noguchi (1955) 42. = *R. constricta*.
- Radula lunulatilobula** Horikawa (1934) 227\*; Hattori (1960) 49; Yang (1960a) 36; Shin (1970) 36. = *R. retroflexa*.
- Radula miqueliana** Tayl. Yamada (1973) 100\*. = *R. retroflexa*.
- Radula nymanii** Steph. Inoue (1961) 187; Inoue et Miller (1965) 145; Lai et Wang-Yang (1976) 174; Yamada (1979) 291\*.
- Radula obscura** Mitt. Yamada (1979) 245; Yamada et Inoue (1988) 49.
- Radula okamurana** Steph. Yamada et Inoue (1988) 49\*.
- Radula onraedtii** Yamada Yamada *et al.* (1981) 115; Yamada et Inoue (1988) 46.
- Radula oyamensis** Steph. Shin (1968) 202, (1970) 36; Yamada et Inoue (1988) 50.
- Radula oyamensis** var. *setulosa* Hatt. Lai et Wang-Yang (1976) 174. = *R. oyamensis*.
- Radula perrottetii** Gott. ex Steph. Yamada (1979) 310; Yamada *et al.* (1981) 115; Kitagawa (1979) 39; Lin (1981) 360; Lin et Tsai (1984) 97; Fritsch (1982) 50; Yamada et Inoue (1988) 43.
- Radula philippinensis** Yamada Yamada et Inoue (1988) 46.
- Radula pinnulata** Yang (1960a) 36\*; Lai et Wang-Yang (1976) 174. non. Mitt. 1871 nom. illeg.: = *R. yangii*.
- Radula portoricensis** Steph.
- Radula protensa** Lindb. Horikawa (1934) 227; Hattori (1951c) 114; Chen et Wu (1964) 223; Lai et Wang-Yang (1976) 174; Yamada (1979) 292\*; Yamada et Inoue (1988) 50 (as uncertain species).
- Radula retroflexa** Tayl. Yamada (1979) 281; Yamada *et al.* (1981) 115; Yamada et Inoue (1988) 49.
- Radula retroflexa** var. *fauciloba* (Steph.) Yamada (1979) 382\*, (1981) 115. = *R. retroflexa*.
- Radula tokiensis** Steph. Inoue (1973) 136; Lai et Wang-Yang (1976) 174; Yamada (1979) 252\*; Yamada et Inoue (1988) 49.
- Radula valida** Steph. Horikawa (1934) 226, (1939) 849\*; Kamimura (1936) 68; Hattori (1944) 86, (1968a) 284, (1952c) 27; Yang (1960a) 37; Inoue (1961) 187; Shin (1968) 202; Hattori et Mizutani (1969) 94; Iwatsuki et Mizutani (1972) 324\*; Lai et Wang-Yang (1976) 174. = *R. perrottetis*.
- Radula variabilis** Hattori Hattori (1950a) 70, (1952c) 27; Yang (1960a) 37; Lai et Wang-Yang (1976) 174.
- Radula yangii** Yamada (1979) 279\*: Yamada et Inoue (1988) 50.
- Reboulia hemisphaerica** (L.) Raddi Okamura (1916) 1; Horikawa (1926) 36, (1929) 47, (1934) 111, (1939) 797\*, (1935a) 501, (1934c) 708; Inoue (1961) 184, (1975) 73\*; Hattori (1944) 177; Shin (1968) 211, (1970) 49; Lai et Wang-Yang (1976) 174; Lin (1981) 361; Fritsch (1982) 50.
- Rectolejeunea barbata** Herzog in Herzog et Noguchi (1955) 49\*; Inoue et Miller (1965) 147, Lai et Wang-Yang (1976) 174.
- Rectolejeunea oblique** Herzog in Herzog et Noguchi (1955) 49\*; Inoue (1959a) 270; Amakawa (1958) 145; Shin (1970) 46; Lai et Wang-Yang (1976) 174.
- Rhaphidolejeunea foliicola** (Horik.) Chen Chen et Wu (1964) 240; Bischler (1968) 65; Inoue (1973) 156\*; Yamada *et al.* (1981) 65; Li *et al.* (1985) 537\*. = *Drepanolejeunea foliicola*.

- Riccardia angustata* Horikawa (1934) 126\*; Hattori (1944) 165, (1960) 49; Lai et Wang-Yang (1976) 174.
- Riccardia chamedryfolia* (With.) Grolle.
- Riccardia crenulata* Schiffn. Inoue (1961) 185; Lai et Wang-Yang (1976) 174.
- Riccardia formosensis* (Steph.) Horikawa (1934) 125; Lai et Wang-Yang (1976) 174.
- Riccardia jackii* Schiffn. Inoue (1981) 72.
- Riccardia latifrons* Lindb. Horikawa (1934) 125; Lai et Wang-Yang (1976) 174; Lin (1981) 360; Gao et Zhang (1981) 170\*.
- Riccardia multifida* (L.) Gray Horikawa (1934) 125, (1939) 809\*; Inoue (1961) 185; Yang (1966) 234; Lai et Wang-Yang (1976) 174; Yamada *et al.* (1986) 63.
- Riccardia palmata* (Hedw.) Carr. Gao et Zhang (1981) 166\*.
- Riccardia pellioides* Horik. Yang (1960) 234.
- Riccardia pinguis* (L.) Gray Horikawa (1934) 124, (1935c) 211, (1935e) 674; Hattori (1944) 168; Hattori et Mizutani (1966) 35\*. = *Aneura pinguis*.
- Riccardia platyclada* Schiffn. Inoue (1961) 185; Lai et Wang-Yang (1976) 174.
- Riccardia sinuata* (Dicks.) Trevisan Horikawa (1934) 126; Hattori (1944) 168; Lai et Wang-Yang (1976) 174; Gao et Zhang (1981) 168. = *R. chamedryfolia*.
- Riccardia* sp. Inoue (1961) 185.
- Riccardia submultifida* Horikawa (1934) 128\*; Herzog et Noguchi (1955) 30; Hattori (1960) 50; Lai et Wang-Yang (1976) 174.
- Riccia fluitans* L. Horikawa (1934) 108, (1939) 793\*, (1935b) 761; Hattori (1944) 179, (1943a) 139; Yang (1960) 234; Shin (1968) 212, (1970) 49; Lai et Wang-Yang (1976) 174; Gao et Zhang (1981) 198; Fritsch (1982) 156.
- Riccia glauca* L. Horikawa (1934) 107, (1939) 793\*, (1936a) 666, (1936c) 201; Hattori (1944) 179, (1943a) 142; Yang (1960) 234; Shin (1970) 50; Inoue (1975) 154\*; Anonymous (1972) 29\*; Lai et Wang-Yang (1976) 174; Gao et Zhang (1981) 199\*; Fritsch (1982) 56.
- Ricciocarpus natans* (L.) Corda Horikawa (1934) 108, (1939) 785\*; Hattori (1944) 181, (1943a) 142; Yang (1960) 234; Shin (1968) 212, (1970) 50; Lai et Wang-Yang (1976) 174; Gao et Zhang (1981) 194\*.
- Saccogyna bidentula* Horikawa (1934) 174\*, (1939) 827\*; Hattori (1960) 51. = *Saccogynidium rigidulum*.
- Saccogyna curiosissima* Horikawa Horikawa (1934) 173, (1939) 827\*, (1950) 32, (1952b) 46. = *Heteroscyphus tener*.
- Saccogyna rigidula* (N.) Schiffn. Hattori (1952b) 45. = *Saccogynidium rigidula*.
- Saccogyna subcuriosissima* Horikawa (1934) 173\*; Hattori (1960) 51; Lai et Wang-Yang (1976) 174. = *Chiloscyphus aselliformis*.
- Saccogynidium jugatum* (Mitt.) Grolle Grolle (1968) 156, (1965) 53.
- Saccogynidium muricellum* (De Not.) Grolle Lai et Wang-Yang (1976) 174; Piippo (1985a) 131\*; Grolle & Schultze-Motel (1972) 80.
- Saccogynidium rigidulum* (Nees) Grolle (1960) 52, (1965) 53; Inoue et Miller (1965) 144; Shin (1968) 199; Lai et Wang-Yang (1976) 174; Fritsch (1982) 60; Piippo (1985a) 132\*; Grolle et Schultze-Motel (1972) 81.
- Scapania bolanderi* Aust. Hattori (1952c) 24; Fritsch (1982) 61. = *S. robusta*.
- Scapania bolanderi* var. *caudata* (Steph.) S. Hattori (1950a) 51. = *S. robusta*.
- Scapania bolanderi* var. *major* Amak. et Hatt. (1953) 48. = *S. robusta*.
- Scapania ciliata* Lac. Amakawa (1967a) 98\*, (1967b) 326\*; Shin (1968) 201, (1970) 35; Hattori (1975a) 227; Iwatsuki et Mizutani (1972) 303\*, (1983) 194; Inoue (1973) 74\*, (1972a) 316, (1981) 72; Lai et Wang-Yang (1976) 174; Chiang et Lin (1984) 35.



- Scapania ciliatospinosa* Horikawa (1934) 222\*; Hattori (1960) 52; Inoue (1977a) 319, (1972a) 317\*; Lai et Wang-Yang (1976) 175; Amakawa (1981) 122.
- Scapania ferruginea* (Lehm. et Lindb.) Gott. Horikawa (1934) 223; Hattori (1966) 521, (1968a) 285; Inoue (1972a) 319\*; Amakawa (1964) 6\*, (1981) 118\*; Noguchi, Takaki et Inoue (1966) 384; Lai et Wang-Yang (1976) 175; Long (1979) 58.
- Scapania glaucoviridis* Horikawa (1934) 221\*; Hattori (1960) 52; Inoue (1972a) 320\*; Lai et Wang-Yang (1976) 175; Lin (1981) 361; Lin et Tsai (1984) 96; Wu (1984) 222.
- Scapania gracilis* (Lindb.) Kaal. Yang et Lee (1964) 185.
- Scapania griffithii* Schiffn. Inoue (1972a) 322\*; Hattori (1975a) 227; Long (1979) 58; Lai et Wang-Yang (1976) 175; Yamada *et al.* (1986) 175.
- Scapania javanica* Gott. Inoue (1961) 186; Lai et Wang-Yang (1976) 175.
- Scapania ligulata* Steph. Inoue (1972a) 323; Yamada *et al.* (1986) 63.
- Scapania maxima* Horikawa (1934) 223\*; Nakanishi (1963) 321; Hattori (1960) 53, (1975a) 227; Inoue (1972a) 313\*; Lai et Wang-Yang (1976) 175; Lai (1977) 155; Amakawa (1981) 120\*.
- Scapania nemorosa* (L.) Dum. Yang (1960) 232.
- Scapania ornithopodioides* (With.) Pears. Nakanishi (1963) 323; Inoue (1961) 186, (1968) 401, (1971) 356, (1972a) 314\*; Hattori (1968a) 285, (1966) 522, (1971a) 231; Lai et Wang-Yang (1976) 175; Lai (1977) 155; Ikegami (1957) 66; Amakawa et Hattori (1954) 110\*; Amakawa (1964) 2\*; Noguchi, Takaki et Inoue (1966) 384; Iwatsuki et Mizutani (1972) 304\*, (1983) 194; Li *et al.* (1985) 505; Wu (1984) 222; Long (1979) 58; Lin et Tsai (1984) 97; Fritsch (1982) 62.
- Scapania plagiochiloides* Horikawa (1932) 83\*, (1934) 222; Hattori (1960) 54.=*S. ornithopodioides*.
- Scapania robusta* Horikawa (1932a) 124\*, (1934) 223; Hattori (1960) 54; Inoue (1972a) 323; Lai et Wang-Yang (1976) 175; Fritsch (1982) 62; Wu (1984) 222.
- Scapania schiffneri* Grolle Hattori (1971a) 231.=*S. ciliatospinosa*.
- Scapania* sp. Inoue (1961) 186.
- Scapania spinosa* Steph. Horikawa (1934) 220, (1939) 847\*; Hattori (1950a) 53, (1944) 72, (1952c) 24; Amakawa et Hattori (1954) 91\*; Nakanishi (1963) 322; Hong (1966) 408; Li *et al.* (1985) 507\*.=*S. ciliata*.
- Scapania stephanii* K. Muell. Inoue (1969a) 62\*.
- Scapania subnimbose* Steph. Amakawa (1967b) 317\*; Inoue (1968) 401.=*S. robuata*.
- Scapania undulata* (L.) Dum. Yang et Lee (1964) 185.
- Scaphophyllum speciosum* (Horik.) Inoue (1966a) 266\*; Lai et Wang-Yang (1976) 175; Vana et Inoue (1983) 127.
- Schiffneria hyalina* Steph. Horikawa (1952) 66, (1955) 104; Inoue (1961) 186, (1973) 128\*, (1981) 73; Shin (1968) 198, (1970) 32; Iwatsuki et Mizutani (1972) 319\*; Lai et Wang-Yang (1976) 175; Lin (1981) 362; Kitagawa (1973) 270; Fritsch (1982) 62, Grolle et Piippo (1984) 305\*.
- Schiffneria viridis* Steph. Horikawa (1934) 175, (1939) 829\*; Hattori (1944) 77, (1952b) 44; Yang (1966a) 21.=*S. hyalina*.
- Schiffneriolejeunea tumida* (Nees) Gradst.
- Schistochila acuminata* Steph. Inoue (1985a) 112\*.
- Schistochila aligera* (Nees) Schiffn. Horikawa (1934) 216; Kitagawa (1973) 270; Lai et Wang-Yang (1976) 175.=*Gottschea aligera*.
- Schistochila blumii* (Nees) Trev. Inoue (1985a) 110\*.
- Schistochila formosana* Horikawa (1933) 59, (1934) 217, (1939) 843\*; Hattori (1960) 55; Yang (1960) 232; Grolle (1966) 241; Yang et Lee (1964) 185; Kitagawa (1973) 271; Lai et Wang-

- Yang (1976) 175; Lin (1981) 361.=*S. blumii*.
- Schistochila nuda* Horikawa (1934) 215\*, (1939) 843\*; Hattori (1960) 55; Shin (1968) 201; Lai et Wang-Yang (1976) 175; Fritsch (1982) 63.=*Gottschea nuda*.
- Schistochila philippinensis* (Mont.) Jack et Steph. Takaki et Katsurayama (1978) 19\*=*Gottschea philippinensis*.
- Schistochila rigidula* Horikawa (1933) 60\*, (1934) 215; Hattori (1960) 55; Lai et Wang-Yang (1976) 175; Lin (1981) 362; Wu (1984) 222.=*S. acuminata*.
- Solenostoma comatum* (Nees) Gao in Gao et Zhang (1981) 73\*.
- Solenostoma triste* (Nees) K. Muell. Li *et al.* (1985) 493; Gao et Zhang (1981) 75\*.
- Sphenolobopsis Kitagawa* Schuster (1980) 11\*.
- Sphenolobopsis pearsonii* (Spruce) Schust. et Kitag. Schuster (1971) 155\*; (1980) 11\*.
- Sphenolebus acuminatus* Horikawa (1934) 155\*; Hattori (1960) 55; Kitagawa (1966) 132\*=*Anastrophyllum acuminatum*.
- Sphenolobus exsectus* (Schmidel) Steph. Horikawa (1934) 157, (1935f) 1000.=*Tritomaria exsecta*.
- Sphenolobus minutus* (Crantz) Berg. Lin et Tsai (1984) 96.
- Sphenolobus striolatus* Horikawa (1934) 157\*; Hattori (1960) 55; Kitagawa (1966) 133\*; Lin et Tsai (1984) 96.=*Anastrophyllum striolatum*.
- Spruceanthus marianus* (Gott.) Mizut. Shin (1970) 46; Lai et Wang-Yang (1976) 175; Mizutani (1977) 134, (1978) 134.
- Spruceanthus polymorphus* (Sande Lac.) Verd. Hattori (1952c) 32; Horikawa (1954) 274; Mizutani (1961) 164; Inoue (1961) 188; Shin (1968) 209, (1970) 46; Hattori et Mizutani (1969) 97; Iwatsuki et Mizutani (1972) 330; Lai et Wang-Yang (1976) 175; Mizutani (1977) 135, (1978) 134; Lin (1981) 360; Yamada *et al.* (1981) 115.
- Spruceanthus semirepandus* (Nees) Verd. Hattori (1944) 131, (1952c) 32, (1966) 532, (1971a) 239; Horikawa (1952) 92, (1955) 106; Inoue (1961) 188, (1973) 148\*; Shin (1968) 209, (1970) 45; Iwatsuki et Mizutani (1972) 339\*; Noguchi, Takaki et Inoue (1966) 386; Mizutani (1961) 161, (1975) 135; Lai et Wang-Yang (1976) 175; Kitagawa (1981) 71, Li *et al.* (1985) 530.
- Syzygiella nuda* (Horikawa) Hattori (1950b) 142; Inoue (1958) 38\*=*S. securifolia*.
- Syzygiella securifolia* (Nees) Inoue.
- Syzygiella variegata* (Lindb.) Spruce Inoue (1964) 106, (1966b) 195\*; Grolle (1967) 118; Lai et Wang-Yang (1976) 175.=*S. securifolia*.
- Taeniolejeunea appressa* (Evans) Zwick Kodama (1955) 103.=*Cololejeunea appressa*.
- Taeniolejeunea floccosa* (Lehm. et Lindb.) Zwich. Hattori (1941) 462; Kodama (1955) 103; Inoue (1961) 188.=*Cololejeunea floccosa*.
- Taeniolejeunea nakaii* Hattori Hattori (1948b) 46, (1950c) 46.=*Cololejeunea verrucosa*.
- Taeniolejeunea ocelloides* (Horikawa) Hattori Hattori (1941) 462, (1950c) 46, (1948b) 46; Kodama (1955) 104.=*Cololejeunea peraffinis*.
- Taeniolejeunea oshimensis* (Horik.) Hattori Hattori (1944) 463.=*Cololejeunea inflata*.
- Taeniolejeunea peraffinis* (Schiffn.) Zwich. Hattori (1941) 463; Kodama (1955) 104.=*Cololejeunea peraffinis*.
- Taeniolejeunea peraffinis* (Schiffn.) Zwich. f. *corticola* Benedix Herzog et Noguchi (1955) 55.=*Cololejeunea peraffinis*.
- Taeniolejeunea pseudofloccosa* (Horik.) Hattori (1941) 465; Kodama (1955) 104.=*Cololejeunea pseudofloccosa*.
- Targionia formosica* Horikawa (1935a) 499\*, (1939) 795\*; Hattori (1951b) 26, (1960) 57; Lai et Wang-Yang (1976) 175.
- Targionia hypophylla* Linn. Hattori (1966) 536, (1968a) 285; Hattori et Mizutani (1969) 98; Lai et Wang-Yang (1976) 175.

- Taxilejeunea luzonensis** Steph. Herzog et Noguchi (1955) 47; Lai et Wang-Yang (1976) 175.
- Taxilejeunea subcompressiuscula** Herzog in Herzog et Noguchi (1955) 47; Lai et Wang-Yang (1976) 175.
- Telaranea wallichiana** (Gott.) Schust.
- Temnoma birmense** (Steph.) Horik. Hattori (1952b) 46; Horikawa (1951a) 90, (1955) 109.=  
*Chandonanthus birmensis*.
- Temnoma hirtellum** (Web.) Horikawa (1951a) 90.=*Chandonanthus hirtellus*.
- Temnoma hirtellus** (Web.) Hattori (1952b) 47.=*Chandonanthus hirtellus*.
- Temnoma setigerum** (Lindb.) Schust. Hattori (1952b) 47; Grolle (1967) 118; Lai et Wang-Yang (1976) 175; Inoue (1978a) 95; Piippo (1984) 31.
- Temnoma setigerum** f. *piliferum* (Horik.) Schust. (1966) 277.=*T. setigerum*.
- Tetralophozia filiformis** (Steph.) Urmi (1983) 394.\*
- Thysananthus aculeatus** Herz. Hattori (1951) 60; Yang (1963) 29; Shin (1968) 209, (1970) 46; Mizutani (1961) 153, (1969) 137, (1977) 135; Lai et Wang-Yang (1976) 175.
- Thysananthus formosanus** Horikawa (1934) 253\*, (1939) 861\*; Hattori (1960) 413\*.=*Th. aculeatus*.
- Thysananthus fuscobrunneus** Horikawa (1934) 251\*; Hattori (1960) 57; Yang (1963) 29; Lai et Wang-Yang (1976) 175.
- Thysananthus liukuensis** Horikawa (1934) 250\*; Yang (1963) 30.=*Mastigolejeunea humilis*.
- Thysananthus obovatus** Yang (1963) 24\*; Lai et Wang-Yang (1976) 175.=*Spruceanthus semi-repandus*.
- Thysananthus setacea** Yang (1963) 27\*; Lai et Wang-Yang (1976) 175.=*Mastigolejeunea repleta*.
- Thysananthus spathulistipus** (R. B. N.) Lindb. Kitagawa (1981) 71.
- Treubia insignis** sensus Horikawa (1951b) 240.=*T. nana*.
- Treubia nana** Hattori et Inoue Kitagawa (1959) 38; Schuster et Scott (1969) 250; Lai et Wang-Yang (1976) 175.
- Trichocolea lumbricoides** Horikawa (1934) 212\*; Hattori (1960) 57; Inoue (1978a) 101.
- Trichocolea merrillana** Steph. Kitagawa (1973) 272, (1978) 49; Lai et Wang-Yang (1976) 175.
- Trichocolea pluma** Mont. Horikawa (1934) 214; Herzog et Noguchi (1955) 42; Inoue (1968) 398, (1978a) 102; Grolle (1965) 53; Kitagawa (1973) 272; Lai et Wang-Yang (1976) 175; Lin (1981) 362; Fritsch (1982) 66.
- Trichocolea tomentella** (Ehrh.) Dum. Hisauchi (1927) 90\*. Horikawa (1934) 214, (1939a) 359, (1939b) 397; Hattori (1944) 9, (1975a) 209, (1966) 504, (1952b) 39; Inoue (1961) 185, (1978a) 102; Yang (1960) 231, Hong (1966) 397; Nakanishi (1963) 322; Yang et Lee (1964) 184; Shin (1970) 29; Lai et Wang-Yang (1976) 175, Iwatsuki et Mizutani (1972) 273\*; Lai (1977) 155; Lin (1981) 360, Lin et Tsai (1984) 95; Piippo (1984) 32\*.
- Trichocoleopsis sacculata** (Mitt.) Okam. Lai et Wang-Yang (1976) 175.
- Tritomaria exsecta** (Schmid.) Schiffn. Hattori (1944c) 272\*, (1968a) 285, (1975a) 215, (1966) 509, (1971a) 227, (1952b) 46; Schuster (1969) 647\*; Kitagawa (1966) 115\*, (1970a) 204; Noguchi, Takaki et Inoue (1966) 381; Hong (1966) 403; Iwatsuki et Mizutani (1972) 285\*; Lai et Wang-Yang (1976) 175; Inoue (1981) 73; Gao et Zhang (1981) 62\*; Lin et Tsai (1984) 96.
- Tritomaria exsecta** fo. *simplex* S. Hattori (1948) 17.
- Tritomaria quinquedentata** (Huds.) Buch Hattori (1948a) 109; Kitagawa (1966) 117\*; Schuster (1969) 678; Iwatsuki et Mizutani (1972) 286; Lai et Wang-Yang (1976) 175; Gao et Zhang (1981) 61\*.
- Tritomaria quinquedentata** var. *asymmetrica* (Horik.) Kitagawa (1963a) 171.=*T. quinquedentata*.
- Trocholejeunea sandvicensis** (Gott.) Mizut. Shin (1968) 210, (1970) 46; Iwatsuki et Mizutani

- (1972) 339\*; Lai et Wang-Yang (1976) 175; Inoue (1975) 76\*; Mizutani (1978) 136; Gradstein et Inoue (1980) 29; Lin (1981) 360; Grolle (1982) 183; Yamada *et al.* (1981) 115; Li *et al.* (1985) 532\*.
- Wettsteinia inversa* (Sande Lac.) Schiffn. Grolle (1965a) 99; Inoue (1968) 400; Lai et Wang-Yang (1976) 175; Fritsch (1982) 67; Piippo (1984a) 329.
- Wettsteinia rotundifolia* (Horik.) Grolle Lai et Wang-Yang (1976) 176.
- Wiesnerella denudata* (Mitt.) Steph. Horikawa (1934) 119, (1939) 803, (1931) 623\*, (1934a) 452, (1952) 72; Inoue (1969a) 45\*, (1975) 150\*; Hattori (1966) 536, (1944) 176; Iwatsuki et Mizutani (1972) 364\*, Lai et Wang-Yang (1976) 176; Fritsch (1982) 67.
- Xenolejeunea ceylanica* (St.) Schuster et Kachroo Tixier (1980) 391.
- Xenochila integrifolia* (Mitt.) Inoue Inoue (1968) 400, (1964c) 125, (1973) 110\*, (1982) 125, (1984) 344; Lai et Wang-Yang (1976) 176; Iwatsuki et Mizutani (1972) 309\*; Fritsch (1982) 67.
- Zoopsis liukiensis* Horik. Horikawa (1934) 176, (1939) 829\*, (1939a) 359; Hattori (1952b) 43; Shin (1968) 197, (1970) 31; Inoue (1975) 2\*; Iwatsuki et Mizutani (1972) 279\*; Lai et Wang-Yang (1976) 176; Manuel (1981) 220; Grolle et Piippo (1984) 302\*.

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## 臺灣蘚類植物名錄

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### 摘要

有關臺灣蘚類植物名錄已有十一年之久未加整理，其間因世界上專論或訂正的研究以及新紀錄或新種不斷的發表，使原有的學名諸多改變；另一方面臺灣至今尚未有完整的苔蘚植物誌問世，為方便分類工作的進行及加速對地方植物誌的平衡發展，作者乃根據 1897 年至今所發表過的蘚類文獻，完成此名錄，列出接受的學名及同異名的處理，依屬、種名字母次序逐一條列。

本名錄凡列出 124 屬，557 種、亞種、變種及型。