

Names of Chinese seed plants validly published in *A Catalogue of Type Specimens (Cormophyta) in the Herbaria of China* and its two supplements

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Abstract At least 41 names of Chinese seed plants from 17 families were not validly published in their original publications because the type was not indicated in accordance with one or more of the requirements of Art. 37. They are validated in *A Catalogue of Type Specimens (Cormophyta) in the Herbaria of China* and its two supplements edited by Shu-Ying Jin and Yi-Lin Chen (1994, 1999, 2007). However, most of botanists were presumably unaware of these validations. As it is necessary to know this information when using these names in subsequent publications, the correct citation of the 41 names is provided here.

Keywords China; nomenclature; seed plants; valid publication

■ INTRODUCTION

A Catalogue of Type Specimens (Cormophyta) in the Herbaria of China and its two supplements edited by Shu-Ying Jin and Yi-Lin Chen (1994, 1999, 2007) are one of the most important references for plant taxonomy in China, which listed in total 14,082 names of new taxa of Chinese higher plants (i.e., *Embryophyta*) that were published from 1949 to 2005. In the catalogues, the information for each name was provided in detail, including the scientific name, authorship, Chinese vernacular name, original place of publication, and type data, i.e., the type specimen(s) and the herbarium or herbaria in which they are conserved.

Recently, we found that 41 names of Chinese seed plants belonging to 17 families (i.e., *Acanthaceae*, *Actinidiaceae*, *Berberidaceae*, *Cephalotaxaceae*, *Cyperaceae*, *Fabaceae*, *Lardizabalaceae*, *Meliaceae*, *Pentaphragmaceae*, *Pittosporaceae*, *Poaceae*, *Rhamnaceae*, *Rubiaceae*, *Rutaceae*, *Salicaceae*, *Scrophulariaceae*, and *Staphyleaceae*) were not validly published in the original place of publication because the type was not indicated in accordance with one or more of the requirements of Art. 37 of the *International Code of Botanical Nomenclature (ICBN, Vienna Code)* (McNeill & al., 2006). However, these names were subsequently validated in the catalogues of Jin & Chen (1994, 1999, 2007), where only one gathering was indicated as type and the single herbarium where the type is conserved was specified. Unfortunately, most botanists appear to be unaware of the validation of names in these catalogues. Twelve of the names were unnecessarily validated again, two of them twice, thereby creating 14 later isonyms, which have no nomenclatural status (ICBN, Art. 6 Note 2).

The 41 names listed here may be only some of the names that were validated in the catalogues of Jin and Chen. Therefore, we advise that if names of Chinese bryophytes and vascular plants were not validly published because the type was not

indicated in accordance with one of the provisions of Art. 37, researchers must check whether they are validly published in the catalogues of Jin and Chen. Meanwhile, the correct citation of the place of valid publication of these 41 names is provided here in order to avoid further publication of useless isonyms.

In each entry of the list, boldface indicates the currently accepted name, following the *Flora of China* (Wu & Raven, 1994–2001; Wu & al., 2001–2011) except in the case of *Cephalotaxus sinensis* var. *latifolia*, and this accepted name is enclosed in square brackets when it is a taxonomic synonym of the first name listed in the entry. Names not validly published are cited in double quotation marks, and later isonyms are indicated as such.

■ ACANTHACEAE

Goldfussia grandissima H.P. Tsui in S.Y. Jin & Y.L. Chen, Cat. Type Spec. Herb. China (Suppl.): 27. 1999 [= *Strobilanthes oresbia* W.W. Sm.] – Type: CHINA. Yunnan: Gongshan, 11 Apr 1938, T.T. Yü 19329 (holotype, PE; isotypes, KUN) – “*Goldfussia grandissima*” H.P. Tsui in Acta Bot. Yunnan. 12: 276. 1990, not validly published, single herbarium in which type is conserved not specified, contrary to Art. 37.7 – “*Pteracanthus grandissimus*” C.Y. Wu & C.C. Hu in C.C. Hu, Fl. Reipubl. Popularis Sin. 70: 140. 2002, new combination not validly published, with incorrect reference to basionym, contrary to Art. 33.4.

■ ACTINIDIACEAE

Actinidia guilinensis C.F. Liang in S.Y. Jin & Y.L. Chen, Cat. Type Spec. Herb. China (Suppl.): 28. 1999 [= *Actinidia latifolia* (Gardner & Champ.) Merr. var. *latifolia*] – Type:

CHINA. Guangxi: Guilin, 21 May 1987, *C.F. Liang 34519* (holotype, IBK) – “*Actinidia guilinensis*” C.F. Liang in *Guihaia* 8: 129. 1988, not validly published, with five gatherings cited, none indicated as type, contrary to Art. 37.1 and 37.2.

Saurauia miniata C.F. Liang & Y.S. Wang in S.Y. Jin & Y.L. Chen, *Cat. Type Spec. Herb. China*: 126. 1994 (“*minuta*”) – Type: CHINA. Yunnan: Mengzi, *T.N. Liou 19008* (holotype, PE) – “*Saurauia miniata*” C.F. Liang & Y.S. Wang in *K.M. Feng, Fl. Reipubl. Popularis Sin.* 49(2): 329. 1984 (“*minata*” on p. 329, “*miniata*” on pp. xi, 286, t. 82 [p. 288], and 289), not validly published, with two gatherings cited, neither indicated as type, contrary to Art. 37.1 and 37.2 – “*Saurauia miniata*” C.F. Liang & Y.S. Wang in X.Y. Zhu & al., *Legumes China*: 638. 2007, isonym.

■ BERBERIDACEAE

Berberis chunanensis T.S. Ying in S.Y. Jin & Y.L. Chen, *Cat. Type Spec. Herb. China (Suppl. II)*: 52. 2007 – Type: CHINA. Zhejiang: Chun’an, 29 Aug 1958, *Anonymous 30227* (holotype, PE; isotype, HHBG) – “*Berberis chunanensis*” T.S. Ying in *Acta Phytotax. Sin.* 37: 315. 1999, not validly published, type not explicitly indicated as such, contrary to Art. 37.6 – “*Berberis chunanensis*” T.S. Ying in *Novon* 18: 494. 2008, isonym.

Berberis jiulongensis T.S. Ying in S.Y. Jin & Y.L. Chen, *Cat. Type Spec. Herb. China (Suppl. II)*: 54. 2007 – Type: CHINA. Sichuan: Jiulong, 22 Jun 1974, *F.Y. Qiu 4660* (holotype, PE) – “*Berberis jiulongensis*” T.S. Ying in *Acta Phytotax. Sin.* 37: 320. 1999, not validly published, with three gatherings cited, none indicated as type, contrary to Art. 37.1, 37.2, and 37.6.

Berberis pseudoamoena T.S. Ying in S.Y. Jin & Y.L. Chen, *Cat. Type Spec. Herb. China (Suppl. II)*: 55. 2007 – Type: CHINA. Sichuan: Leibo, 23 Jun 1959, *Liangshan division, Sichuan Economic Plant Exped. 0970* (holotype, PE) – “*Berberis pseudoamoena*” T.S. Ying in *Acta Phytotax. Sin.* 37: 331. 1999, not validly published, type not explicitly indicated as such, contrary to Art. 37.6.

■ CEPHALOTAXACEAE

Cephalotaxus sinensis var. *latifolia* W.C. Cheng & L.K. Fu in S.Y. Jin in *Bull. Bot. Res., Harbin, Suppl.*: 98. 1988* – Type: CHINA. Chongqing: Nanchuan, *C.H. Tsiung & Z.L. Zhou 90277* (holotype, PE) – “*Cephalotaxus sinensis* var. *latifolia*” W.C. Cheng & L.K. Fu in *Acta Phytotax. Sin.* 13(4): 86. 1975, not validly published, with two gatherings indicated as types, contrary to Art. 37.1 and 37.2 – “*Cephalotaxus latifolia*” L.K. Fu in *Acta Phytotax. Sin.* 22: 280. 1984, new combination not validly published, name cited as basionym not validly published; not validly published as name of new

taxon, two gatherings indicated as types, contrary to Art. 37.1 and 37.2 – “*Cephalotaxus harringtonia* var. *latifolia*” Silba in *J. Int. Conifer Preserv. Soc.* 7(1): 22. 2000, new combination not validly published, with incorrect reference to basionym, contrary to Art. 33.4.

= *Cephalotaxus latifolia* W.C. Cheng & L.K. Fu in *Novon* 9: 185. 1999 ≡ *Cephalotaxus sinensis* subsp. *latifolia* (W.C. Cheng & L.K. Fu) Silba in *J. Int. Conifer Preserv. Soc.* 14(1): 16. 2007, nom. illeg. (Art. 53.4) – Type: CHINA. Chongqing: Nanchuan, 23 May 1964, *X.Q. Chen & K.Y. Lang 2463* (holotype, PE).

* Note: Jin (1988) firstly published the information of *Bryophyta*, *Pteridophyta*, and *Gymnospermae* of the 1994’s Catalogue in *Bulletin of Botanical Research* (Harbin) as a supplement. The name *C. sinensis* var. *latifolia* was included in this supplement and validated.

■ CYPERACEAE

Carex canaliculata P.C. Li in S.Y. Jin & Y.L. Chen, *Cat. Type Spec. Herb. China (Suppl.)*: 67. 1999 – Type: CHINA. Yunnan: Weixi, 19 May 1981, *Qinghai-Xizang Exped. 6584* (holotype, PE) – “*Carex canaliculata*” P.C. Li in *Acta Bot. Yunnan.* 12: 148. 1990, not validly published, single herbarium in which type is conserved not specified, contrary to Art. 37.7.

Kobresia inflata P.C. Li in S.Y. Jin & Y.L. Chen, *Cat. Type Spec. Herb. China (Suppl.)*: 73. 1999 – Type: CHINA. Xizang: Zayü, 26 Sep 1982, *Qinghai-Xizang Exped. 10103* (holotype, PE) – “*Kobresia inflata*” P.C. Li in *Acta Bot. Yunnan.* 12: 16. 1990, not validly published, single herbarium in which type is conserved not specified, contrary to Art. 37.7 – “*Kobresia inflata*” P.C. Li in *Bull. Bot. Res., Harbin* 24: 405. 2004 (with collection number of holotype misquoted as “10703”), isonym.

■ FABACEAE

Astragalus yumenensis S.B. Ho in S.Y. Jin & Y.L. Chen, *Cat. Type Spec. Herb. China*: 419. 1994 – Type: CHINA. Gansu: from Jiuquan to Yumen, 19 May 1957, *K.J. Kuan 421* (holotype PE) – “*Astragalus yumenensis*” S.B. Ho in *Bull. Bot. Res., Harbin* 3(1): 65. 1983, not validly published, with two gatherings indicated as types, contrary to Art. 37.1 and 37.2 – “*Astragalus yumenensis*” S.B. Ho in *Novon* 13: 472. 2003, isonym.

Gueldenstaedtia taihangensis H.P. Tsui in S.Y. Jin & Y.L. Chen, *Cat. Type Spec. Herb. China*: 425. 1994 – Type: CHINA. Hebei: Neiqiu, 22 Aug 1950, *Y. Liu 13740* (holotype, PE) – “*Gueldenstaedtia taihangensis*” H.P. Tsui in *Bull. Bot. Lab. N.-E. Forest. Inst., Harbin* 5: 40. 1979, not validly published, with two gatherings indicated as types, contrary to Art. 37.1 and 37.2.

■ LARDIZABALACEAE

Holboellia latistaminea T.C. Chen in S.Y. Jin & Y.L. Chen, Cat. Type Spec. Herb. China (Suppl. II): 112. 2007 [= *Holboellia parviflora* (Hemsl.) Gagnep.] – Type: CHINA. Sichuan: Emei, *W.P. Fang 15449* (holotype IBSC; isotype, KUN) – “*Holboellia latistaminea*” T.C. Chen in T.S. Ying, Fl. Reipubl. Popularis Sin. 29: 307. 2001, not validly published, type not explicitly indicated as such, contrary to Art. 37.6, and two herbaria specified for a single gathering, contrary to Art. 37.7.

Stauntonia brachybotrya T.C. Chen in S.Y. Jin & Y.L. Chen, Cat. Type Spec. Herb. China (Suppl. II): 112. 2007 [= *Stauntonia obovatifoliola* subsp. *urophylla* (Hand.-Mazz.) H.N. Qin] – Type: CHINA. Guangdong: Ruyuan, *S.P. Ko 80092* (holotype, IBSC; isotype, IBK) – “*Stauntonia brachybotrya*” T.C. Chen in T.S. Ying, Fl. Reipubl. Popularis Sin. 29: 308. 2001, not validly published, type not explicitly indicated as such, contrary to Art. 37.6, and two herbaria specified for a single gathering, contrary to Art. 37.7.

■ MELIACEAE

Amoora stellata C.Y. Wu in S.Y. Jin & Y.L. Chen, Cat. Type Spec. Herb. China: 462. 1994 [= *Aglaiia teysmanniana* (Miq.) Miq.] – Type: CHINA. Yunnan: Jinping, 22 Apr 1956, *Yunnan Exped. 307* (holotype, KUN) – “*Amoora stellata*” C.Y. Wu, Fl. Yunnan. 1: 234. 1977, not validly published, with two gatherings indicated as types (in Chinese ideographs), contrary to Art. 37.1 and 37.2.

Dysoxylum oliganthum C.Y. Wu in S.Y. Jin & Y.L. Chen, Cat. Type Spec. Herb. China: 463. 1994 [= *Dysoxylum pallens* Hiern] – Type: CHINA. Yunnan: Pingbian, 14 Jul 1953, *P.Y. Mao 2517* (holotype, KUN) – “*Dysoxylum oliganthum*” C.Y. Wu, Fl. Yunnan. 1: 247. 1977, not validly published, with two gatherings indicated as types (in Chinese ideographs), contrary to Art. 37.1 and 37.2.

■ PENTAPHYLACACEAE

Eurya acutisepala Hu & L.K. Ling in S.Y. Jin & Y.L. Chen, Cat. Type Spec. Herb. China: 642. 1994 – Type: CHINA. Hunan: Chengbu, 3 Nov 1940, *P.C. Tsoong 1524* (holotype PE) – “*Eurya acutisepala*” Hu & L.K. Ling in Acta Phytotax. Sin. 11: 291. 1966, not validly published, with two gatherings indicated as types (in Chinese ideographs), contrary to Art. 37.1 and 37.2 – “*Eurya acutisepala*” Hu & L.K. Ling in J. S. China Agric. Univ. 21(4): 59. 2000, isonym.

Eurya kweichouensis Hu & L.K. Ling in S.Y. Jin & Y.L. Chen, Cat. Type Spec. Herb. China: 643. 1994 – Type: CHINA. Guizhou: Jiangkou, 3 Sep 1931, *C.Y. Chiao & al. 321* (holotype, PE) – “*Eurya kweichouensis*” Hu & L.K. Ling in Acta

Phytotax. Sin. 11: 294. 1966, not validly published, with two gatherings indicated as types (in Chinese ideographs), contrary to Art. 37.1 and 37.2 – “*Eurya kweichouensis*” [sic!] Hu & L.K. Ling in J. S. China Agric. Univ. 21(4): 60. 2000, isonym.

Note: *Eurya kweichouensis* and “*E. kweichouensis*” may be treated as orthographic variants under Art. 61.5.

■ PITTOSPORACEAE

Pittosporum calcicola C.Y. Wu in S.Y. Jin & Y.L. Chen, Cat. Type Spec. Herb. China: 500. 1994 [= *Pittosporum tonkinense* Gagnep.] – Type: CHINA. Yunnan: Xichou, 14 Dec 1939, *C.W. Wang 85675* (holotype, KUN) – “*Pittosporum calcicola*” C.Y. Wu in C.Y. Wu & H.W. Li, Fl. Yunnan. 3: 326. 1983, not validly published, with two gatherings indicated as types, contrary to Art. 37.1 and 37.2.

■ POACEAE

Qiongzhusia tumidinoda Hsueh & T.P. Yi in S.Y. Jin & Y.L. Chen, Cat. Type Spec. Herb. China: 347. 1994, nom. illeg. (Art. 52.1) ≡ *Chimonobambusa tumidissinoda* Ohrnb., Bamboos World Gen. Chimonobambusa: 45. 1990 ≡ *Chimonobambusa tumidinoda* T.H. Wen in J. Bamboo Res. 10(1): 17. 1991, nom. illeg. (Art. 52.1) ≡ *Qiongzhusia tumidissinoda* (Ohrnb.) Hsueh & T.P. Yi in Taxon 45: 220. 1996 – Type: CHINA. Sichuan: Leibo, 15 May 1965, *F.Y. Wang, Z.Q. Xiong & K.T. Yang 11563* (holotype, SCFI) – “*Qiongzhusia tumidinoda*” Hsueh & T.P. Yi in Acta Bot. Yunnan. 2: 93. 1980, not validly published, with two gatherings indicated as types, contrary to Art. 37.1 and 37.2.

Note: *Chimonobambusa tumidinoda* T.H. Wen was intended as a new combination based on the not validly published “*Qiongzhusia tumidinoda*” of 1980, but is in fact a validly published but illegitimate (Art. 52.1) nomen novum because *Chimonobambusa tumidissinoda* Ohrnb. was also cited in synonymy with a full and direct reference to its place of valid publication.

■ RHAMNACEAE

Berchemia omeiensis W.P. Fang ex S.Y. Jin & Y.L. Chen, Cat. Type Spec. Herb. China: 549. 1994 – Type: CHINA. Sichuan: Emei, *K.H. Yang 54729* (holotype, PE) – “*Berchemia omeiensis*” Y.L. Chen & P.K. Chou in Bull. Bot. Lab. N.-E. Forest. Inst., Harbin 5: 16. 1979, not validly published, with two gatherings indicated as types, contrary to Art. 37.1 and 37.2 – “*Berchemia omeiensis*” W.P. Fang ex Q. Lin & Z.R. Yang in Novon 21: 71. 2011 (with collection number of holotype misquoted as “54723”), isonym.

Rhamnus kwangsiensis Y.L. Chen & P.K. Chou in S.Y. Jin & Y.L. Chen, Cat. Type Spec. Herb. China: 550. 1994 – Type: CHINA. Guangxi: Guilin, *X.F. Teng 11111*

[misquoted as “*1111*” by Jin & Chen] (holotype, IBK) – “*Rhamnus kwangsiensis*” Y.L. Chen & P.K. Chou in Bull. Bot. Lab. N.-E. Forest. Inst., Harbin 5: 77. 1979, not validly published, with two gatherings indicated as types, contrary to Art. 37.1 and 37.2 – “*Rhamnus kwangsiensis*” Y.L. Chen & P.K. Chou in Novon 21: 71. 2011, isonym.

■ RUBIACEAE

Mycetia brevipes F.C. How ex S.Y. Jin & Y.L. Chen, Cat. Type Spec. Herb. China (Suppl.): 188. 1999 – Type: CHINA. Yunnan: Deqin, 7 Sep 1957, *T.T. Yü 20164* (holotype, IBSC; isotypes, KUN) – “*Mycetia brevipes*” H.S. Lo in Guihaia 11: 110. 1991, not validly published, type not explicitly indicated as such, contrary to Art. 37.6.

Ophiorrhiza chingii H.S. Lo in S.Y. Jin & Y.L. Chen, Cat. Type Spec. Herb. China (Suppl.): 189. 1999 – Type: CHINA. Yunnan: Yangbi, 24 Apr 1980, *R.C. Ching 22367* (holotype, IBSC) – “*Ophiorrhiza chingii*” H.S. Lo in Bull. Bot. Res., Harbin 10(2): 65. 1990, not validly published, type not explicitly indicated as such, contrary to Art. 37.6.

Ophiorrhiza cordata W.L. Sha ex S.Y. Jin & Y.L. Chen, Cat. Type Spec. Herb. China (Suppl.): 189. 1999 – Type: CHINA. Guangxi: Napo, 29 Apr 1977, *B.Q. Pan 3-5596* (holotype, GXMI) – “*Ophiorrhiza cordata*” H.S. Lo in Bull. Bot. Res., Harbin 10(2): 55. 1990, not validly published, type not explicitly indicated as such, contrary to Art. 37.6.

Ophiorrhiza fangdingii H.S. Lo in S.Y. Jin & Y.L. Chen, Cat. Type Spec. Herb. China (Suppl.): 190. 1999 – Type: CHINA. Guangxi: Napo, 28 Jan 1984, *D. Fang & Z.G. Wang 78434* (holotype, GXMI) – “*Ophiorrhiza fangdingii*” H.S. Lo in Bull. Bot. Res., Harbin 10(2): 40. 1990, not validly published, type not explicitly indicated as such, contrary to Art. 37.6.

Ophiorrhiza filibracteolata H.S. Lo in S.Y. Jin & Y.L. Chen, Cat. Type Spec. Herb. China (Suppl.): 190. 1999 – Type: CHINA. Guangdong, Ruyuan, *Yue 71-24* (holotype, IBSC) – “*Ophiorrhiza filibracteolata*” H.S. Lo in Bull. Bot. Res., Harbin 10(2): 52. 1990, not validly published, type not explicitly indicated as such, contrary to Art. 37.6.

Ophiorrhiza purpurascens H.S. Lo in S.Y. Jin & Y.L. Chen, Cat. Type Spec. Herb. China (Suppl.): 191. 1999 – Type: CHINA. Sichuan: Xuyong, 30 Sep 1964, *S.G. Tang 1354* (holotype, IBSC) – “*Ophiorrhiza purpurascens*” H.S. Lo in Bull. Bot. Res., Harbin 10(2): 39. 1990, not validly published, type not explicitly indicated as such, contrary to Art. 37.6.

Ophiorrhiza rarior H.S. Lo in S.Y. Jin & Y.L. Chen, Cat. Type Spec. Herb. China (Suppl.): 191. 1999 – Type: CHINA. Guangxi: Longzhou, *X.X. Chen 2-0047* (holotype, GXMI)

– “*Ophiorrhiza rarior*” H.S. Lo in Bull. Bot. Res., Harbin 10(2): 38. 1990, not validly published, type not explicitly indicated as such, contrary to Art. 37.6.

Ophiorrhiza repandicalyx H.S. Lo in S.Y. Jin & Y.L. Chen, Cat. Type Spec. Herb. China (Suppl.): 191. 1999 – Type: CHINA. Yunnan: Jinghong, 3 Nov 1973, *P.Z. Chu 10517* (holotype, IBSC) – “*Ophiorrhiza repandicalyx*” H.S. Lo in Bull. Bot. Res., Harbin 10(2): 79. 1990, not validly published, type not explicitly indicated as such, contrary to Art. 37.6.

■ RUTACEAE

Clausena hainanensis C.C. Huang & F.W. Xing in S.Y. Jin & Y.L. Chen, Cat. Type Spec. Herb. China (Suppl.): 194. 1999 – Type: CHINA. Hainan: Changjiang, 25 Jul 1989, *F.W. Xing s.n.* (holotype, IBSC) – “*Clausena hainanensis*” C.C. Huang & F.W. Xing in Guihaia 12: 215. 1992, not validly published, type not explicitly indicated as such, contrary to Art. 37.6.

■ SALICACEAE

Bennettiodendron macrophyllum var. *obovatum* S.S. Lai in S.Y. Jin & Y.L. Chen, Cat. Type Spec. Herb. China (Suppl.): 87. 1999 [= *Bennettiodendron leposipes* (Clos) Merr.] – Type: CHINA. Guangxi: Longzhou, 4 Oct 1979, *Nonggang Exped. 10755* (holotype, IBK; isotype GXMI) – “*Bennettiodendron macrophyllum* var. *obovatum*” S.S. Lai in Bull. Bot. Res., Harbin 14: 227. 1994, not validly published, with two gatherings indicated as types, contrary to Art. 37.1 and 37.2.

Casearia membranacea f. *nigrescens* S.S. Lai in S.Y. Jin & Y.L. Chen, Cat. Type Spec. Herb. China (Suppl.): 87. 1999 [= *Casearia glomerata* Roxb.] – Type: CHINA. Guangxi: Longzhou [Longjin], 7 Jun 1959, *S.Q. Chen 11697* (holotype, IBSC) – “*Casearia membranacea* f. *nigrescens*” S.S. Lai in Bull. Bot. Res., Harbin 14: 229. 1994, not validly published, with two gatherings indicated as types, contrary to Art. 37.1 and 37.2.

Idesia polycarpa var. *longicarpa* S.S. Lai in S.Y. Jin & Y.L. Chen, Cat. Type Spec. Herb. China (Suppl.): 88. 1999 [= *Idesia polycarpa* var. *vestita* Diels] – Type: CHINA. Jiangxi, Yifeng, *S.S. Lai & al. 20* (holotype, IBSC; isotype IBK) – “*Idesia polycarpa* var. *longicarpa*” S.S. Lai in Bull. Bot. Res., Harbin 14: 227. 1994, not validly published, with three gatherings indicated as types, contrary to Art. 37.1 and 37.2.

Poliothyrsis sinensis f. *subglabra* S.S. Lai in S.Y. Jin & Y.L. Chen, Cat. Type Spec. Herb. China (Suppl.): 88. 1999 [= *Poliothyrsis sinensis* Oliv.] – Type: CHINA. Jiangxi:

Xingzi, 15 Oct 1970, S.S. Lai 7001 (holotype, IBK) – “*Po-liothyrsis sinensis* f. *subglabra*” S.S. Lai in Bull. Bot. Res., Harbin 14: 228. 1994, not validly published, with three gatherings indicated as types, contrary to Art. 37.1 and 37.2.

Salix suchowensis W.C. Cheng in S.Y. Jin & Y.L. Chen, Cat. Type Spec. Herb. China: 599. 1994 – Type: CHINA. Jiangsu: Nanjing, C.T. Yang 20641 (holotype, NF) – “*Salix suchowensis*” W.C. Cheng in Sci. Silvae 8(1): 4. 1963, not validly published, with two gatherings indicated as types, contrary to Art. 37.1 and 37.2 – “*Salix suchowensis*” G.H. Zhu in Novon 8: 466. 1998 (with page number of original publication misquoted as “8” and holotype incorrectly given as “J.L. Guo 89012 (holotype, NF)”), isonym.

Xylosma controversa var. *glabra* S.S. Lai in S.Y. Jin & Y.L. Chen, Cat. Type Spec. Herb. China (Suppl.): 88. 1999 (“*glabrum*”) [= *Xylosma controversa* Clos var. *controversa*] – Type: CHINA. Guangdong, Yangshan, 17 Jun 1951, L. Deng 1492 (holotype, IBK; isotype, IBSC) – “*Xylosma controversa* var. *glabrum*” [sic!] S.S. Lai in Bull. Bot. Res., Harbin 14: 224. 1994, not validly published, with two gatherings indicated as types, contrary to Art. 37.1 and 37.2.

Xylosma fasciculiflora S.S. Lai in S.Y. Jin & Y.L. Chen, Cat. Type Spec. Herb. China (Suppl.): 88. 1999 (“*fasciculiflorum*”) [= *Xylosma longifolia* Clos] – Type: CHINA. Yunnan: Jingdong, 4 Nov 1956, B.Y. Qiu 50405 (holotype, ZJFC; isotype, IBK) – “*Xylosma fasciculiflorum*” [sic!] S.S. Lai in Bull. Bot. Res., Harbin 14: 224. 1994, not validly published, with two gatherings indicated as types, contrary to Art. 37.1 and 37.2.

■ SCROPHULARIACEAE

Mimulicalyx paludigenus P.C. Tsoong in S.Y. Jin & Y.L. Chen, Cat. Type Spec. Herb. China: 613. 1994 – Type: CHINA. Yunnan: Mengzi, 5 Oct 1939, C.W. Wang 81476 [misquoted as “814176” by Jin & Chen] (holotype, PE) – “*Mimulicalyx paludigenus*” P.C. Tsoong in P.C. Tsoong & H.P. Yang, Fl. Reipubl. Popularis Sin. 67(2): 400. 1979, not validly published, with two gatherings indicated as types, contrary to Art. 37.1 and 37.2 – “*Mimulicalyx paludigenus*” P.C. Tsoong in Novon 15: 319. 2005, isonym – “*Mimulicalyx paludigenus*” P.C. Tsoong in Kew Bull. 64: 574. 2009, isonym.

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Scrophularia stylosa P.C. Tsoong in S.Y. Jin & Y.L. Chen, Cat. Type Spec. Herb. China: 619. 1994 – Type: CHINA. Shaanxi: Foping, K.T. Fu 4764 (holotype, PE) – “*Scrophularia stylosa*” P.C. Tsoong in P.C. Tsoong & H.P. Yang, Fl. Reipubl. Popularis Sin. 67(2): 394. 1979, not validly published, with two gatherings indicated as types, contrary to Art. 37.1 and 37.2 – “*Scrophularia stylosa*” P.C. Tsoong in X.Y. Zhu & al., Legumes China: 637. 2007, isonym.

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Turpinia subsessilifolia C.Y. Wu in S.Y. Jin & Y.L. Chen, Cat. Type Spec. Herb. China: 625. 1994 – Type: CHINA. Yunnan: Xizhou, C.A. Wu 7792 (holotype, KUN) – “*Turpinia subsessilifolia*” C.Y. Wu, Fl. Yunnan. 2: 355. 1979, not validly published, with two gatherings indicated as types (one in English, both in Chinese ideographs), contrary to Art. 37.1 and 37.2.

■ ACKNOWLEDGEMENTS

We are grateful to John McNeill, Nicholas Turland, and Yun-Fei Deng for their kind assistance and valuable discussions and suggestions. This study was supported by grants from National Basic Research Program of China (973 Program, no. 2007CB411600) and the National Natural Science Foundation of China (no. 30970201, 40830209, and 30670160).

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