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Index to Hepaticarum—Part I.

BY LUCIEN MARCUS UNDERWOOD.

The last general synopsis of the Hepaticæ was published by Gottsche, Nees and Lindenberg, forty-six years ago (No. 315), and with the single exception of a review of the literature of the decade 1847-58 (No. 297), no general bibliography of any considerable period has ever been published. The literature is yearly growing more formidable, and the need of an index is seen in the frequent duplication of names and descriptions. It is desirable, therefore, to take our bearings in order that we know more clearly the nature and extent of our publications. The intended purpose of this index is: (1) To present an author catalogue of the publications relating to this group, supplemented by a topical index for the purpose of more ready reference; (2) An index of all the species described, with a reference of each to the genera recognized at the present time; and (3) A classified arrangement of the species to show our present knowledge of their geographic distribution. The first of these we present herewith. That it is entirely complete we cannot reasonably hope, yet we believe it fairly represents the literature bearing on the subject to the close of the year 1892. We shall gladly receive notice of any omission or needed correction. It is hoped that the further parts will not be long delayed.

While the greater part of the more important literature is in our own possession, access to several rare papers has been possible only through the kindness of the authorities of the library of Columbia College, the Gray Herbarium, and the Royal Herbarium

at Kew. In addition, lists of the published papers of prominent living contributors to the literature have been sent to the authors themselves, who have kindly corrected the lists of their publications. For the verification of some of the titles I am further indebted to Prof. A. B. Seymour, of Cambridge, Mass., and Mr. A. W. Evans, of New Haven, Conn.

GREENCASTLE, INDIANA, 6 Feb. 1893.

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\* (List of 30 Hepaticæ.)

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† Ornskoldsvik, 19 Jan. 1879.

2—Dispositio Muscorum in Scandinavia hucusque cognitorum. 12mo. pp. 33, Upsala (1842).

3—Förteckning och beskrifning öfver Mossor, samlade af Professor N. J. Andersson under Fregatten Eugenie's verldsomsegling åren 1851–53. Ofversigt af Kongl. Vetensk.-Akad. Forhandl. 1872, No. 4, 3–29; 1873, No. 5, 113–151.

(Includes Hepaticæ from Straits of Magellan, New Holland, Sandwich Is., Galapagos Is., Tahiti, Mauritius and St. Helena.)

4—Rättelser och tillägg till förteckning och beskrifning öfver Mossor, samlade af Prof. N. J. Andersson under Fregatten Eugenie's verldsomsegling 1851–53. Ofversigt af Kongl. Vetensk.-Akad. Forhandl. 1876, No. 4, 50–55.

5—Primæ lineæ muscorum cognoscendorum, qui ad Caldas Brasilie sunt collectæ. II. Hepaticæ. Ofversigt af Kongl. Vetensk.-Akad. Forhandl. 1876, No. 7, 77–92.

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(Stations of 6 species of Hepaticæ.)

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(List of 115 species, with stations in full.)

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(108 species of Hepaticæ recorded with stations in full, pp. 601-628.)

**Arrondeau.**

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(9 species of Hepaticæ recorded, p. 26.)

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(Describes 11 new species.)

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(Proves to be an *Erpodium*!)

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(List of 15 species from Colorado and the Southwest, p. 350.)

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(Hepaticæ, Vol. ii. pp. 82–101.)

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(List of Sardinian Hepaticæ, pp. 81, 82, 200, 201.)

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(List of 90 Hepaticæ.)

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(List of 61 Hepaticæ.)

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(List of 40 Hepaticæ, pp. 96-103.)

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(List of 19 Hepaticæ, of which 12 are new.)

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(New species from Guadeloupe, French Guiana, New Caledonia and Reunion Is.)

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(List of 6 Hepaticæ, p. 149)

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(General account of Hepaticæ, pp. 341–351.)

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(List of 42 Hepaticæ.)

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(List of 30 Californian Hepaticæ.)

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(List of 38 species; *Scapania grandis* n. sp.)

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(List of 11 species of Hepaticæ, pp. 241, 242.)

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(Includes list of Hepaticæ.)
- Briard**, M.  
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(List of 37 Hepaticæ.)
- Brotero**, Felix de Avellar. Santo Antão de Tojah, Portugal, 25 Nov. 1744. † Acolena de Belem, 4 Aug. 1828.  
119—Flora Lusitanica. Pars II. 8vo. Olisipone (1804).  
(List of Hepaticæ, pp. 421-430; *Anthoceros bulbiculosus*, n. sp.)

**Brotherus, V. F.**

120—Anteckningar till Norra Tavastlands Flora. Notiser ur Sällsk. pro Fauna et Flora Fenn. xiii. (1871-4).

(List of 48 Hepaticæ.)

121—Enumeratio Muscorum Caucasi. Acta Soc. Scien. Fenn. xix. 1-170 (1892).

(List of 94 Hepaticæ; describes 4 new species.)

**Brunand, Paul.**

122—Liste des plantes phanérogames et cryptogames spontanément aux environs de Saintes. Actes de la Soc. Linn. de Bordeaux, xxxii. (1878).

(List of 21 Hepaticæ.)

**Bruttan,**

123—Ueber Lebermoose. Sitzungsber. der Naturf.-Gesellsch. zu Dorpat, vii. 183, 184 (1884).

(List of 54 Hepaticæ.)

124—Drei für die Ostzeeprovinzen neue Lebermoose. Sitzungsber. der Natur.-Gesellsch. zu Dorpat, vii. 343 (1885.)

125—Bericht über eine in hepaticologischer Hinsicht auf der Kurischen Halbinsel und an der Düna ausgeführte Excursion im Sommer 1887. Sitzungsber. der Naturf.-Gesellsch. zu Dorpat, viii. 299-304 (1887.)

126—Ueber einheimische Lebermoose Verzeichniss der in den baltischen Provinzen Russlands vorkommenden resp. bisher aufgefundenen Lebermoose. Sitzungsber. der Naturf.-Gesellsch. zu Dorpat, ix. (1891.)

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127—*Scapania crassiretis* sp. nov. Rev. Bryol. xix. 7, 8 (1892).

**Buchanan, John.**

128—Notes on the Flora of the Province of Wellington, with a list of plants collected therein. Trans. and Proc. New Zealand Inst. for 1873, 210-235 (1874).

(List of 86 Hepaticæ.)

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128a—Catalogue des Hépatiques et des Mousses d'Alsace. Bull. de la Soc. d'Hist. Nat. de Colmar, nouv. ser. i. 1-58 (1892).

**Buttner, Richard.**

129—Einige Ergebnisse meiner Reise in West Afrika in den Jahren 1884-86, insbesondere des Landmarsches von San Salvador über den

Quango nach dem Stanley-Pool. Mitt. des Afrik. Gesellsch. v. 253 (1889).

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(Descriptions and figures of 5 species of Hepaticæ under name of "Lichen.")

**Campbell**, Douglas Houghton. Detroit, Mich., 16 Dec. 1859.

131—Zur Entwicklungsgeschichte der Spermatozoiden. Berl. Deutsch. Bot. Gesellsch. v. 120–127, t. VI. (1887).

(Includes notes on *Pellia epiphylla*.)

132—On the Relationships of the Archegoniata. Bot. Gazette, xvi. 323–333 (1891).

(Discusses the relations of Hepaticæ to Algæ, Musci and Pteridophytes.)

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133—Note sur les Mousses et les Hépatiques de l'Isle-et-Vilaine. Rev. Bryol. ix. 33–42 (1882).

134—Sur les Collections bryologiques du Musée régional de Cholet (Maine-et-Loire). Bull. des Sciences, etc., de Cholet (1891).

134 a—Excursion bryologique à la tourbière de la Fontaine du Four dans la forêt de Montmorency. Bull. de la Soc. Bot. de France, xxxviii. 172–179 (1892).

134 b—Sur la *Riccia nigrella*. Bull. de la Soc. Bot. de France, xxxviii. 212–230 (1892).

134 c—Glanures bryologiques dans le Flore Parisienne. Bull. de la Soc. Bot. de France, xxxviii. 286–294 (1892).

(Notes 37 Hepaticæ.)

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135—Catalogue des Mousses et des Hépatiques récoltees aux environs de Stenay et de Montmédy. 8vo., pp. 40 (1882).

136—Note Bryologique sur les environs d'Anvers. Rev. Bryol. ix. 87–90 (1882); x. 71–73 (1883); xi. 24–26 (1884).

137—Contributions à la flore Bryologique de Belgique. Comptes Rendus des Seances de la Soc. Roy. de Bot. de Belgique, xxv. 41–46 (1886).

138—Sur les *Riccia Bischoffii* Hüb. et *R. nodosa* Bouch. Rev. Bryol. xix. 49–53 (1892).

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**Carrington**, Benjamin. † 18 Jan. 1893.

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140—Irish Hepaticæ. *Trans. Bot. Soc. Edinb.* vii. 441—458, pl. X., XI. (1863).

141—On two Hepaticæ new to Britain; *Jungermannia saxicola*, J. Bartlingii. *Manchester Lit. Phil. Soc. Proc.* iv. 186—188 (1867).

142—Hepaticæ in Robert Brown's *Florula Discoana*. *Trans. Bot. Soc. Edinb.* ix. 453, 454 (1868).

(List of 10 Greenland Hepaticæ.)

143—Dr. Gray's Arrangement of the Hepaticæ. *Trans. Bot. Soc. Edinb.* x. 305—309 (1870).

144—On two new British Hepaticæ. *Trans. Bot. Soc. Edinb.* x. 378—382 (1870).

145—New British Hepaticæ. *Grevillea.* ii. 85—88, pl. XVIII. (1873).

146—British Hepaticæ, containing descriptions of the native species of *Jungermannia*, *Marchantia* and *Anthoceros*. (Only four parts issued). Pp. 88, pl. I.—XVI. (1874—1876).

147—Notes on new British Hepaticæ. *Trans. Bot. Soc. Edinb.* xiii. 461—470, Pl. XVII., XVIII. (1879).

**Carrington, B., and Pearson, W. H.**

148—Hepaticæ Britannicæ exsiccatae. Fasc. i. Nos. 1—75 (1878); Fasc. ii. Nos. 76—150 (1879); Fasc. iii. Nos. 151—215 (1883); Fasc. iv. Nos. 216—290 (1890).

149—List of Hepaticæ collected in Tasmania by Mr. R. A. Bastow, F. L. S. *Papers and Proc. Roy. Soc. Tasmania*, 1887, 49—52 (1888).

150—Description of new or rare Tasmanian Hepaticæ. *Papers and Proc. Roy. Soc. Tasmania*, 1887, 1—12 (1888).

151—List of Hepaticæ collected by Mr. Thomas Whitelegge in New South Wales, 1884—5. *Proc. Linn. Soc. N. S. W.* ii. 1035—1060, pl. XXII.—XXXVII. (1887).

152—A new Hepatic. *Jour. of Bot.* xxvii. 225, t. CCXC (1889).

**Carruthers, William.**

153—On the nomenclature of the British Hepaticæ. *Jour. of Bot.* iii. 297—302 (1865).

(A discussion of the priority of generic names published by S. F. Gray in his "Arrangement of British Plants.")



**Caspary, Robert.**

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(Describes 17 Hepaticæ found in amber.)

**Chaubard, Louis Anastase.** Agen, France, 17 Aug. 1785. † Paris, 13 Jan. 1854.

**Chaubard, L. A., et Bory de Saint Vincent, J. B. M.**

155—Nouvelle Flore du Péloponnèse et des Cyclades. Fol. pp. 87, tab. 42, Paris (1838).

**Chaboisseau, T.**

156—Notes sur plusieurs espèces observées rivantes ou soumises a la culture. VIII. Sur quelques Hépatiques. Bull. de Soc. Bot. de France, x. 300, 301 (1863).

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157—Nouvelles localites du Sphærocarpus Michellii dans la Sarthe. Rev. Bryol. iv. 19, 20 (1877).

158—Liste des Mousses et des Hépatiques recoltées dans la forêt des Fanges le 16 Juin (1888).

**Cobb, N. A.**

159—A List of Plants growing wild within thirty miles of Amherst, Mass. 8vo. pp. 51, Northampton (1887).

(Includes list of Hepaticæ.)

**Cogniaux, Alfred.**

160—Catalogue pour servir d' introduction a une Monographie des Hépatiques de Belgique. Bull. de la Soc. Roy. de Bot. de Belgique, — (1872). [Sep. pp. 56.]

(List of 105 Hepaticæ.)

**Colenso, William.** Penzance, Cornwall, England, 17 Nov. 1811. See also *Stephani, F.*

161—Description of a new species of Metzgeria. Trans. and Proc. New Zealand Inst. xiii. 368–369 (1881).

(Des ribes *M. rugulosa* n. sp.)

162—A description of a few new Plants from our New Zealand Forests. *Ibid.* xiv. 329–341 (1882).

(Describes *Plagiochila subsimilis* and *Gymnanthe hirsutum*, pp. 340, 341.)

163—Descriptions of a few new indigenous Plants. *Ibid.* xv. 320–339 (1883).

(Describes *Symphyogyna biflora* and *Monoclea Hookeri*, pp. 336–339.)

164—A further contribution toward making known the Botany of New Zealand. *Ibid.* xvi. 325-363 (1884).

(Describes 20 Hepaticæ, pp. 349-361.)

165—A Description of some newly-discovered Cryptogamic Plants; being a further Contribution toward making known the Botany of New Zealand. *Ibid.* xvii. 237-265 (1885).

(Describes 7 new species of Hepaticæ, pp. 260-263.)

166—A Description of some newly-discovered Cryptogamic Plants; being a further Contribution toward making known the Botany of New Zealand. *Ibid.* xviii. 219-255 (1886).

(Describes 43 new species of Hepaticæ, pp. 236-255.)

167—A description of some newly-discovered Cryptogamic Plants; being a further contribution toward making known the Botany of New Zealand. *Ibid.* xix. 271-301 (1887).

(Describes 40 new species of Hepaticæ, pp. 280-301.)

168—On new indigenous Cryptogams of the Orders Lycopodiaceæ, Musci and Hepaticæ. *Ibid.* xx. 234-254 (1888).

(Describes 21 new species of Hepaticæ, pp. 243-254.)

169—A Description of some newly-discovered Cryptogamic Plants; being a further contribution toward making known the Botany of New Zealand. *Ibid.* xxi. 43-80 (1889).

(Describes 72 new species of Hepaticæ, pp. 47-79.)

170—A Description of some newly-discovered indigenous Cryptogamic Plants. *Ibid.* xxii. 452-458 (1890).

(Describes 6 new species of Hepaticæ, pp. 454-457.)

171—A List of New Species of Hepaticæ novae zelandiæ, named by F. Stephani, Leipzig. *Ibid.* xxiv. 398-400 (1892).

172—Plain and Practical Thoughts and Notes on New Zealand Botany. *Ibid.* xxiv. 400-409 (1892.)

(Popular account of New Zealand Hepaticæ, their uses, distribution, etc.)

**Collins, Frank Shipley.** Charlestown, Mass., 6 Feb. 1848. See *Dame, L. L.*

**Colmiero, Miguel.**

173—Enumeracion de las Criptogamas de Espana y Portugal Parte Primera, Acrogenas, pp. 119. Parte segunda, Talogenas, pp. 260. 8vo. Madrid (1867).

(54 species of Hepaticæ described, pp. 106-119.)

174—Enumeracion y Revision de las Plantas de la Peninsula Hispano, Lusitana e islas Baleares, Vol. i.-v. large 8vo. Madrid (1885-1889.)

(96 species of Hepaticæ described, v. pp. 552-571.)

**Colonna, Fabio.** Naples, Italy, *circa* 1567. † Naples, 1650.

175—Minus cognitarum rariorumque nostro coelo orientium stirpium Ekphrasis, etc. etc. 4to pp. 340–99, tab. 131. Rome (1616).

(Mentions three Hepaticæ which Lindberg distinguishes as *Pellia*, *Conocephalus* and *Targionia*.)

**Cook, Orator Fuller.** Clyde, N. Y., 28 May 1867. See *Underwood, L. M.*

**Cooke, Mordecai Cubitt.** Horning, (Norfolk), England, 12 July 1825.

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**Cooley, Grace Emily.** East Hartford, Conn., 26 July 1857.

177—Plants collected in Alaska and Nanaimo, B. C., July and August 1891. Bull. Torrey Bot. Club, xix. 239—249 (1892).

(List of 13 Hepaticæ, pp. 246–7.)

**Corbiere, L.**

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179—Muscinees Nouvelles pour les environs de Cherbourg. Rev. Bryol. xii. 58–60 (1885).

180—Mousses et Hépatiques des environs de Blidah (Algerie) récoltées en 1887 par M. Gay. Rev. de Bot. 145–155 (1889).

(List of 14 Hepaticæ.)

181—Les Fossombronia du departement de la Manche. Rev. Bryol. xvii. 1–6 (1890).

**Corda, August Karl Joseph.** Reichenberg, Germany, 22 Oct. 1809.

† On the ship “Victoria,” in the Gulf of Mexico, Sept. 1849.

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184—Hepaticæ, in Sturm; Deutschlands Flora nach der Natur mit Beschreibungen. Zweite Abtheilung, Heft, i.–xxxi.

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**Crie, L.**

185—Observations sur le Flore Cryptogamique de la Sarth et de la Mayenne. Bull. de la Soc. Linn. de Normandie, 2d ser., v. (1871).

[Sep. pp. 19.]

186—Note sur un cas tératologique offert par une Hépatique (*Frullania dilatata* Nees). *Rev. Bryol.* iv. 3, 4 (1877).

187—Sur quelque stations du *Sphaerocarpus Michellii* dans l'ouest de la France. *Rev. Bryol.* iv. 6, 7 (1877).

**Crouan, P. L. et H. M.**

188—Florule du Finistere, contenant des descriptions de 360 especes nouvelles de Sporogames, des nombreuses observations. 8vo. pp. 262, Paris (1867).

(List of *Hepaticæ*, pp. 173-178).

**Cruickshank, James.**

189—List of *Jungermannia*, etc., observed in the neighborhood of Dumfries. *Phytologist*, i. 257-259 (1844).

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190—Catalogue of Musci and *Hepaticæ* of North America, north of Mexico. 8vo. pp. 24, Natick (1885).

(List of 231 *Hepaticæ*.)

**Curnow, William.**

191—The *Hepaticæ* of West Cornwall. *Trans. Penzance Nat. Hist. and Antiq. Soc.* 1881-2. [Sep. 5 pp].

192—Additions to the recorded Fauna and Flora of West Cornwall. *Trans. Penzance Nat. Hist. and Antiq. Soc.* 1883-4.

**Curtiss, Moses Ashley.** Stockbridge, Mass. 11 May 1808. † Hillsborough, N. C. 10 April 1872.

193—Geological and Natural History Survey of North Carolina. Part III. Botany, containing a Catalogue of the indigenous and naturalized Plants of the State. 8vo. pp. 156. Raleigh (1867).

(List of 69 *Hepaticæ*, pp. 75-77.)

**Dame, L. L. and Collins, F. S.**

194—Flora of Middlesex County, Massachusetts. 8vo., pp. 201, Malden (1888).

(List of 16 *Hepaticæ*, pp. 149, 150.)

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(Includes 33 *Hepaticæ*, pp. 422-431.)

**Davies, George.**

† Brighton, England,

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**Day, David Fisher.** Buffalo, New York, 11 June 1829.

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(List of 24 Hepaticæ, pp. 165, 166.)

**Debat, L.**

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**DeCandolle, Augustin Pyramus.** Geneva, Switzerland, 4 Feb. 1778.

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(List of 33 Hepaticæ.)

202—Beiträge zur Litteraturegeschichte und Verbreitung der Lebermoose in Böhmen, sammt einigen speciellen Beobachtungen. Verhandl. der k. k. zool.–bot. Gesellsch. (Wien.) xxix. 15–34 (1879).

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204—Die Lebermoose Böhmens. 8vo. pp. 71, Prag (1887).

(Includes 124 Hepaticæ.)

**Delamare, E., Renauld, F., et Cardot, J.**

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(List of 37 Hepaticæ.)

**Del Amo y Mora, Mariano.**

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(51 species of Hepaticæ described, pp. 623–649.)

**Delogne, C. H.**

207—*Pleuroschisma deflexum* Dmrt. et *Plagiochila spinulosa* Dmrt. Bull. de la Soc. roy. de Bot. de Belgique, xx. 35, 36 (1881).

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209—Note sur la decouverte en Belgique du *Dialæna Lyellii* Dmrt. Comptes rendus des Seances de la Soc. roy. de Bot. de Belgique, xxii. 67, 68 (1883).

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**Delogne, C. H., et Durand, Th.**

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212—Tableau comparatif des Muscinées Belges. Bull. de la Soc. roy. de Bot. de Belgique, xxiii. 63-86 (1884).

**Delogne, C. H. et Gravet, F.**

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(Contains 60 species of *Hepaticæ exsiccatae*.)

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(Contains *Hepaticæ* among other Cryptogams.)

**De Loynes, Paul.** Poitiers, France, 31 Oct. 1841.

215—Essai d'un Catalogue des Hépatiques de la Gironde et de quelque localités du Sud-Ouest. Actes de la Soc. Linn. de Bordeaux, xl. 223-269 (1886).

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219—Contribution à la flore crytogamique de l'Ouest-Vienne et Deux Sevres. Muscinées. Essai d'une Catalogue (1892).

**Delpino, F.**

220—Applicazione di nuova criterii per la classificazione delle piante. I. Mem. Accad. Bologna, ser. IV. IX. 221–243 (1888).

221—Simbiosi fra Epatiche fogliose e Rotiferi. Malpighia, IV. 32, tab. V. (1890).

**Demont.**

222—Decouverte des organes sexuels, du fruit et des semences dans le genre *Jungermania* dont l'organisation est demeurée entierement inconnue jusqu'a ce jour. 8vo. pp. 16, Paris (1857).

(Places the liverworts among the Ericaceæ.)

**DeNotaris, Giuseppe.** Milan, Italy, 18 April 1805. † Rome, 22 Jan. 1877. See also *Ardissoni, F.*

223—Primitiæ Hepaticologiæ italiciæ. Mem. Accad. delle Sci. di Torino, 2d ser. i. 1 tab. 287–361 (1839). [Sep. 4to. pp. 74 (1838).]

224—*Jungermanniarum americanarum pugillus*. Mem. Accad. delle Sci. di Torino, 2d ser., xvi. 211–238, 4 tab. (1857). [Sep. 4to. pp. 32 (1855).]

225—Appunti per un nuova censimento delle Epatiche Italiane. Mem. Accad. delle Sci. di Torino, 2d ser., xviii. 457–498 (1859); xxii. 353–389 (1865). [Sep. 4to. pp. 44, 5 tab. (1865).]

226—Sunto di osservazioni sul genere *Sarcoscyphus*. Commentario Soc. Critto. Ital. Genova, i. 72 (1861).

227—Epatiche di Borneo, raccolte dal Dre. O. Beccari nel ragiato di Sarawak durante gli anni 1865–66–67. Mem. Accad. delle Sci. di Torino, 2d ser., xxviii. 267–308, t. i.—xxxv. (1876). [Sep. 4to. 44pp. (1874).]

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(Describes the new species of the preceding paper.)

**Dickie, George.**

229—Remarks on the structure and morphology of *Marchantia polymorpha*. Trans. Bot. Soc. Edinb. i. 107–112 (1844).

230—Notes on Mosses and Hepaticæ collected by Robert Brown, Esq., on the Northwest Coast of America. Trans. Bot. Soc. Edinb. ix. 355–358 (1868).

**Dickson, James.** Scotland, 1738; † Broad Green, 14 Aug. 1822.

231—Fasciculi (IV.) plantarum cryptogamicarum Britanniciæ. 4to. pp. 28, 31, 24, 28, 12 tab. (1785–1801).

**Dietrich**, David Nathaniel Friedrich. — 1800.

232—Deutschlands kryptogamische Gewächse, oder Deutschlands Flora sechster und siebenter Band. Kryptogamie. 2 vols. 8vo., Jena (1843-46).

(Includes 104 Hepaticæ, pp. 115-150, taf. 205-272, colored.)

**Dillenius**, Johann Jakob. Darmstadt, Germany, 1687. † Oxford, England, 2 April 1747.

233—Historia Muscorum in qua circiter sexcentæ species veteres et novæ ad sua genera relatæ describuntur, et iconibus genuinis illustrantur: cum appendice et indice synonymorum. 4to., pp. xxi. 576, 85 tab. Oxford (1741). [Also reprint, 4to., pp. xvi. 576, 85 tab., Edinburgh (1811).]

**Douin**.

234—Hépatiques rares trouvées en Eure-et-Loir et régions voisines. Rev. Bryol. xix. 25, 26 (1892).

(List of 29 Hepaticæ.)

**Dozy**, Franz. Leyden, Holland, 27 Dec. 1807. † Neuwied, 7 Oct. 1856.

235—[Hepaticæ of the flora of Leyden.] Tijds. voor nat. Gesch. en Phys. x. 108-114 (1843).

(List of 14 Hepaticæ.)

236—Plagiochila Sandei Dz. icone illustrata. Accedunt novæ Hepaticarum Javanicarum Species a C. M. van der Sande-Lacoste breviter descriptæ. 4to. pp. 16, 1 tab., Hazenberg (1856).

**Du Buysson**, R. See *Berthoumien*, V.

**Dumortier**, Barthélemy Charles. Tournay, Belgium, 8 April 1797. † Tournay, 9 July 1878.

237—Commentationes Botanicæ. 8vo. pp. 118, Tournay (1822).

(Contains *Essai d'une Monographie des Jongermannes*, pp. 103-116, in which the genus *Jungermania* is broken up into a number of genera.)

238.—Sylloge Jungermannidearum Europæ indigenarum, earum genera et species systematice complectens. 8vo. pp. 100, 2 pl. Tournay (1831).

239.—Recueil d' observations sur les Jungermannes, 8vo. pp. 27. Tournay (1835).

240.—Hepaticæ Europæ. Bull. de la Soc. royale de Bot. de Belgique, 5-203 (1874). [Sep. 8vo. pp. 203, 4 pl. Bruxelles (1874).]

(Contains descriptions of 310 Hepaticæ as follows: *Jungermaniaceæ*, 252. *Anthocerotaceæ*, 5; *Marchantiaceæ*, 28; *Ricciaceæ*, 25.)

**Durand**, Th. See *Delogne*, C. H.



**Duterte, H.**

241.—Notes Bryologique sur Alencon et ses environs, etc. Rev. Bryol. xiv. 65-77 (1877).

**Edmond, James Williamson.**

242.—Notes on the Structure and Measurements of Cells of Hepaticæ. 88-96.

**Ehrhart, Friedrich.** Holderbank, (Berne), Switzerland, 4 Nov. 1742.

† Herrenhausen, Germany, 26 June 1795.

242 a.—Beiträge zur Naturkunde, etc. 7 vol. 8vo. Hannover (1787-92).

(Describes several Hepaticæ.)

**Eiben, C. E.**

243.—Die Laub-und Lebermoose Ostfriesland. Abhandl. der naturwiss. Verein in Bremen, ix. 423-445 (1887).

(List of 32 Hepaticæ.)

**Eichler, B.**

243 a.—Katalog der Lebermoose gesammelt in der Umgegend von Miedzyrzec. Pamietnik Fisyjograficzny, xi. 81-84 (1891).

**Ekart, Tobias Philipp.** Sinan bei Coburg, 21 May 1799. † (?)

244.—Synopsis Jungermanniarum in Germania vicinisque terris hucusque cognitarum. 4to pp. 72, 13 tab. Coburg (1832).

(Contains copies from many of the plates of Hooker's British Jungermannia.)

**Ekstrand, E. V.**

245.—Om groddbildningar hos de bladiga lefvermossorna, Bot. Notiser, 33-36 (1879).

246.—Anteckningar öfver Skandinaviska Lefvermossor. Bot. Notiser, 36-42 (1879); 44-49 (1880).

247.—Om blommorna hos Scandinaviens bladiga lefvermossor. Bihang till Kongl. Svenska Vet.-Akad. Handl. 6, 1-66 (1880).

**Endlicher, Stephen Ladislaus.** Pressburg, Austria, 24 June 1804.

† Vienna, 28 March 1849.

248.—Genera Plantarum secundum ordines naturales disposita. 4to pp. lx. 1483, Vindobonæ (1836-1850).

**Evans, Alexander William.** Buffalo, New York, 17 May 1868. See also *Millspaugh, C. F.*

249.—An arrangement of the Genera of Hepaticæ. Trans. Conn. Acad. viii. 262-280 (1892). [Sep. pp. 20.]

250.—A Provisional List of the Hepaticæ of the Hawaiian Islands.

Trans. Conn. Acad. viii. 253-261 (1892). [Sep. pp. 9, Pl. XXII, XXIII.]

(List of 118 species hitherto reported including 10 new species, half of which are credited to Austin MS.)

251.—List of Liverworts from Southern Patagonia. Contr. U. S. Nat. Herb. i. 140-142, Pl. XV. XVI. (1892).

(List of 28 species collected by U. S. Fish Commission; describes *Lophocolea apiculata* and *Schistochila quadrifida* as new.)

**Falconer, Hugh.**

252.—On *Athalamia*, a new genus of Marchantiaceæ. Trans. Linn. Soc. xx. 397, 398, t. xxix. fig. 1-6 (1851).

**Fehlner, C.**

253.—Beitrag zur Moosflora von Nieder-Oesterreich. Oesterr. Bot. Zeitschrift, xxxii. 45-51 (1882).

(List of 29 Hepaticæ.)

**Fellner, Ferd.**

254.—Ueber die Keimung der Sporen von *Riccia glauca*. Jahrb. der Akad. naturwiss. Vereins in Graz, ———— (1875). [Sep. pp. 9, 2 taf.]

**Filipowicz, Casimir.**

255.—Catalogue des Mousses, des Hépatiques et des Lichens du Royaume de Pologne. 8vo., pp. 10 (1881).

(Includes 57 Hepaticæ.)

**Fiori, Adriano.**

256.—Revista statistica dell' Epaticologia Italiana. Primo elenco delle Epatiche de Modenese e Reggiano. Malpighia, vi. 41-49, tav. III. (1892).

(Gives map showing distribution of species.)

**Fiorini-Mazzanti, Contessa Elisabetta.**

257.—Florula del Colosseo. Atti dell' Acad. Pontif. di Nuovo Lincei. (1874-78). [Sep. pp. 81.]

(Includes 4 species of Hepaticæ.)

**Fitt, G.**

258.—Notes on *Sphærocarpus terrestris*. Lond. Jour. Bot., 287-289, t. IX. (1847).

**Focke, W. O.**

259.—Die Moosflora des niedersächsisch-friesischen Tieflandes. Abhandl. der naturwissensch. Verein zu Bremen, vi. (1879).

(List of 51 Hepaticæ.)

260—Versuch einer Moosflora der Umgegend von Bremen. Abhandl. der naturwissensch. Verein zu Bremen, ix. 165–184 (1887).

(List of 46 Hepaticæ.)

**Forster, George.** Nassenhuben bei Danzig, Germany, 26 Nov. 1754.  
† Paris, France, 11 Jan. 1794.

261—Fasciculus plantarum magellanicarum, et plantae atlanticae, ex insulis Madeira, St. Jacobi, Adscensionis, St. Helena et Fayal reportae. Comment. Soc. Gött. ix. 13–74 (1787). [Sep. 4to. pp. 64.]

**Fries, Elias Magnus.** Femsjo in Smoland, Sweden, 15 Aug. 1794.  
† Upsala, 8 Feb. 1878.

262—Stirpium agri Femsoniensis index, observationibus illustrata. 8vo. pp. 100, Lundae (1825–26).

263—Summa vegetabilium Scandinaviae, sive enumeratio systematica et critica plantarum quum cotyledonearum tum nemearum, inter mare occidentale et album, inter Eidoram et Nordkap hactenus lectarum indicata simul distributione geographica. 8vo. pp. viii. 572, Holmiae (1846–49).

**Frost, Charles Christopher.** Brattleboro, Vt., 11 Nov. 1805. † Brattleboro, Vt., 16 Mar. 1880.

264—Catalogue of Cryptogamous or Flowerless Plants of Vermont. Archives of Science and Trans. Orleans Co. Soc. Nat. Hist. i. 78–81, 111–117, 152, 153, 192–195, 234–240, 249–252 (1871).

(List of 45 Hepaticæ. pp. 194, 195.)

**Funck, Heinrich Christian.** ———, 1771. † Gefrees, Germany, 14 April 1839.

265—Kryptogamische Gewächse des Fichtelgebirges. 4to. Leipzig (1806–38).

(Exsiccate of Cryptogams Nos. 1–865, including several Hepaticæ.)

**Gagliardi.**

266—Epatiche raccolte nei diutorini del Calvario di Domodossola durante l'hiverno 1875–76. Atti dell' Acad. Pontif. di Nuovo Lincei, xxxvi. (1883). [Sep. pp. 4.]

**Garcke, Friedrich August.** Braunrode, Germany, 25 Oct. 1819.

267—Flora von Halle. Zweiter Theil, Kryptogamen. 8vo. pp. xii. 276, Berlin (1856).

**Gardiner, William.** † Dundee, Scotland, 21 June 1852.

268—Flora of Forfarshire. 8vo. pp. xxiv. 308, London (1848).

(Includes an account of the Hepaticæ.)

**Gay, J.** See *Montagne, C.*

**Geheeb, A.**

269—Beitrag zur Moosflora des westlichen Sibiriens. *Flora*, lxii. 471–480 (1879).

(List of 3 Hepaticæ.)

270—Neue Beiträge zur Moosflora von Neu-Guinea. *Bibliotheca Botanica*, xiii. — (1889).

(Description of *Lepidozia Lawesii* n. sp. by Stephani.)

**Genth, C. F. F.** Platte bei Wiesbaden, Germany, July 1810. † Nassötten, 13 Aug. 1837. See also *Hübener, J. W. P.*

271—Flora des Herzogthum Nassau und der obern, so wie untern Rheingegenden von Speier bis Köln. Erster Theil, Kryptogamie. 8vo. pp. xii. 439, Mainz (1836).

**Gillot, X.**

272—Liste des Cryptogames récoltées en Corse pendant la session extraordinaire de 1877. *Bull. de la Soc. Bot. de France*, xxv. 131–136 (1878).

(List of 10 Hepaticæ.)

273—Liste des Muscinées récoltées en Corse pendant la session extraordinaire de la Société Botanique de France. *Rev. Bryol.* v. 8–10 (1878).

(List of 8 Hepaticæ.)

**Giordano, G. C.**

274—Muschi del reale orto botanico raccolti del Prof. V. Cesati. *Rendi dell' Accad. delle Sci. fis. e Mat. (Napoli)*, xxiv. 77–79 (1885).

(List of 10 Hepaticæ.)

**Girgensohn, G. C.**

275—Übersicht der bis jetzt bekannten Laub- und Lebermoose der Ostsee-provincen. *Archiv für der Naturk. Liv.-Esth.- und Kurlands*, i. 63–74 (1855).

276—Naturgeschichte der Laub- und Lebermoose Liv-, Esth- und Kurlands. *Dorpat Archiv.* ii. 1–488 (1860). [Sep. 8vo., pp. 488, Dorpat (1860).]

**Godman, Frederick DuCane.** See *Mitten, W.*

**Goebel, Karl.** Billigheim, Germany, 8 March 1855.

277—Ueber das Wachsthum von *Metzgeria furcata* und *Aneura*. *Arb. des Bot. Inst. in Würzburg*, ii. 285–290, 1 Taf. (1879).

278—Zur Embryologie der Archegoniaten. *Arb. des Bot. Inst. in Würzburg*, ii. 437–451 (1880).

279—Zur vergleichenden Anatomie der Marchantien. *Arb. des Bot. Inst. in Würzburg*, ii. 529–535 (1880).

280—Die Muscineen, in *Schenk*: Handbuch der Botanik, ii. 315–401 (1882).

281—Grundzüge der Systematik, und speciellen Pflanzenmorphologie. 8vo., Leipzig (1882).

(Muscineen, 152–205.)

282—Muscineae, in *Encyclopaedia Britannica*, Ninth Edition, xvii. 65–74 (1884).

283—Outlines of Special Morphology and Classification of Plants. 8vo. Oxford (1887).

(English translation of No. 281. Gives general account of Muscineae, pp. 140–144, and of the Hepaticæ, pp. 144–163.)

284.—Morphologische und biologische Studien: Ueber epiphytische Farne und Muscineen. *Ann. du Jard. Bot. de Buitenzorg*, vii. 1–73, Pl. I–XV (1887).

(Discusses function of “auriculæ” in Hepaticæ, etc.)

285.—Ueber die wasserbehälter epiphytischer Lebermoose. *Pflanzenbiologische Schilderungen I*, ————— Marburg (1889).

(Discusses the germination of *Lejeunea*, and the auricles of *Jungermaniaceæ*.)

286.—Ueber die Jugendstände der Pflanzen. *Flora*, lxxii. 1–45 (1889).

(Discusses the development of Hepaticæ, especially the *Jungermaniaceæ*, pp. 14–64.)

287.—Morphologische und biologische Studien: IV. Ueber javanische Lebermoose. *Ann. du Jard. Bot. de Buitenzorg*, ix. 1–40, Pl. I–V. (1891).

(1. *Treubia insignis*. 2. *Calobryum Blumii*. 3. *Colura ornata*. 4. Eine javanische *Plagiochila* mit Wassersachen. 5. *Kurzia crenacanthoidea*.)

**Godelinai**, Abbe de la.

288—Mousses et Hépatiques d’Ille-et-Vilaine. *Rev. Bryol.* viii. 104–111 (1881); ix. 6–9 (1882).

(List of 64 Hepaticæ.)

**Gonse**, E.

289—Catalogue des Muscinées de la Somme. *Mem. de la Soc. Linn. du Nord de la France*, iv. (1885).

(List of 35 Hepaticæ.)

290—Additions au Catalogue des Muscinées de la Somme. *Mem. de la Soc. Linn. du Nord de la France*, vii. (1886–88). [Sep. pp. 11.]

**Gottsche**, Carl Moritz. Altona bei Hamburg, Germany, 3 July 1808.

† Altona, 28 Sept. 1892. See also *Hampe, E.*; *Lindenberg, J. B.*; *Lehmann, J. G. C.*; *Polakowsky, H.*; *Schiffner, V.*; *Underwood, L. M.*

291—Anatomisch-physiologische Untersuchungen über *Haplomitrium*

Hookeri N. v. E. mit Vergleichung andere Lebermoose. Acta Acad. Caes. Leop. Carol. Nat. Cur. xx. 267-398, t. xiii.—xx. (1843).

292—Ueber die Fructification der Jungermanniae Geocalyceae. Acta Acad. Caes. Leop. Carol. Nat. Cur. xxi. 419-466, t. xxx.—xxxii. (1845).

293—Muscorum Hepaticarum species novae Javanenses. Batavia Nat. Tijdschr., iv. 573-576 (1853). Also in *Zollenger*: Systematisches Verzeichniss der im indischen Archipel. in den Jahren, 1842-48 gesammelten so wie der aus Japan empfangenen Pflanzen. 8vo., pp. xiv., 160, 67, Zurich (1854-5.)

294—Hepaticæ Australasiæ a Dre. Ferd. Müller lectae. Linnæa, xii. 547-561 (1856).

295—Pugillus Novarum Hepaticarum e recensione Herbarii Musei Parisiensis, congestus. Ann. des Sc. Nat., 4th ser., viii. 318-348, t. ix.—xvi. (1858).

296—Ueber das Genus *Monoclea*. Bot. Zeitung, xvi. 281-287, 289-292, t. vii., viii. (1858).

297—Uebersicht und kritische Würdigung der seit dem Erscheinen der Synopsis Hepaticarum bekannt gewordenen Leistungen in der Hepaticologie. Beilage zu Bot. Zeitung, xvi. 1-48 (1858).

298—Die Leistungen der Belgier in der Hepaticologie seit, 1835. Beilage zu Bot. Zeitung, xvi. 49-54 (1858).

299—Eine vielleicht neue Art der Gattung *Ricciella* Braun. Bot. Zeitung, xvii. 88-92 (1859).

300—Hepaticologische Notizen. Bot. Zeitung, xix. 1-4 (1861).

301—Hepaticæ, in Specimen Floræ Cryptogamei septem insularum. (Corcyra, etc.) Verhandl. der k. k. zool.-bot. Gesellsch. xi. 416 (1861).

302—Hepaticæ, in *Triana et Planchon*: Prodrum Floræ Novo-Granatensis. Ann. des Sc. Nat. 5th ser. 1, 95-198, t. xvii.—xx. (1864).

302 a—Carrington's Irish Cryptogams. Hedwigia, v. 8-14 (1866).

303—Ueber die Cuticula der *Scapania*-Arten. Hedwigia, v. 17-23 (1866).

304—De Mexikanske Levermosser, efter Prof. Fr. Liebmanns Samling. Dansk. Vid. Selsk. Skrift. vi. 97-380, t. i.—xx. (1867). (Sep. pp. 284.)

305—Eine neue *Jungermannia* (J. Mildeana). Verhandl. der k. k. zool.-bot. Gesellsch. xvii. 623-626 (1867).

306—Einige Bemerkungen zu Thom. Jensen: Conspectus Hepaticarum Daniæ, eller Beskrivelse af de Danske Halvmosser. Hedwigia, vi. 49-59, 65-77 (1867).

(Includes notes on many species, and a revision of the European species of *Pellia*.)

307—Neuere Untersuchungen über die Jungermannia Geocalyceae. Abhandl. des Naturw. Vereins in Hamburg, vii. 39—66, t. (1880).

308—Hepaticae in *Müller*: Fragmenta Phytographiae Australiae, xi. 53—69 (1880).

309—Hepaticae, in Reliquiae Rutenbergianae. Abhandl. der naturwissensch. Verein in Bremen, vii. 338—365 (1882).

(Describes 37 new Hepaticae from Madagascar.)

310—Ueber die in Bernstein eingeschlossenen Lebermoose. Berichte der Gesellsch. für Bot. in Hamburg, i, 1—5 (1886).

(23 species of Hepaticae in amber. Cf. Bot. Cent. xxv. 95—7, 121—3).

311—Ueber Lebermoose von Ceylon. Gesellsch. für Bot. in Hamburg, ii. 33, 34 (1886).

312—Ueber Lebermoose, mitgebracht von der Expedition der Gazelle. Gesellsch. für Bot. in Hamburg, ii. 34 (1886).

313—Ueber Bildungsabweichungen bei der Entwicklung des Sporogons der Lejeunien. Gesellsch. für Bot. in Hamburg, i. 15 (1886).

314—Die Lebermoose Sudgeorgiens. Die deutschen Polar expedition, ii. 449—454, t. i.—viii. (1890).

**Gottsche, C. M., Lindenberg, J. B., et Nees ab Esenbeck, C. G.**

315—Synopsis Hepaticarum. 8vo., pp. 834. Hamburgi, (1844—1847).

**Gottsche, C. M., et Rabenhorst, L.**

316—Hepaticae Europæ (exsiccatae). Decas 1—66, (No. 1—660), Dresden, 1862—1879.

(Dr. Gottsche's connection with this elaborate series commenced with the issue of Decades 3—4, No. 21.)

**Gravet, F.** See *Delogne, C. H.*

**Gray, Samuel Frederick.** England, 1780. † 1836.

317—A Natural Arrangement of British Plants according to Jussieu, DeCandolle, etc. 2 vols. 8vo. London (1821).

(Contains the first extensive breaking up of the genus *Jungermania*, following the divisions made by Hooker in his *British Jungermannia*.)

**Griffith, William.** Ham Common, England, 4 March 1810; † Malacca, India, 9 Feb. 1845.

318—Notulæ ad plantas Asiaticas. Part II. On the higher Cryptogamous Plants, 8vo., with Atlas 4to. Calcutta (1849).

(General remarks on Hepaticae, pp. 285—298; Descriptions of several new genera and species, pp. 299—352. The work was written in part as early as 1835, but was published posthumously.)

**Grilli.**

319—Alcune Muscinee ed alcuni Licheni Marchigiani. Nuovo Giorn. Bot. Ital. xxiii. 508 (1891).

(Includes 7 Hepaticæ.)

**Grönland, Johannes.**

320—Memoire sur la Germination de quelque Hépatiques. Ann. des Sc. Nat. 4th ser., i. 5-29, t. i.-vi. (1854). [Sep. pp. 25].

**Grönlund, Christian.**

321—Beitrag zur Kenntniss der Flora von Island. ii. Hepaticæ et Musci. Bot. Tidskrift, 2 R. iii. 1-22 (1874).

(List of 55 Hepaticæ.)

322—Islands Flora. 8vo., Copenhagen (1881).

(Includes 62 species of Hepaticæ.)

**Gronovius, Jan Fredrik.** Leyden, Holland, 1690. †Leyden, 1762.

323—Flora Virginica, etc. 2 vol. 8vo. (1739-43).

(Mentions one hepatic under the name of "Lichen terrestris pileatus," which Lindberg identifies as *Fimbraria tenella*; the first reported from America.)

**Guignard, Leon.**

324—Sur la formation des Anthérozoïdes des Hépatiques, des Mousses et des Fougères. Comptes rendus de l'Acad. des Sc. cviii. 463.

325—Development et constitution des Anthérozoïdes. Rev. gen. de Botanique, i. pt. 1-4 (1889).

(*Pellia*, *Fossombronina*, *Anthoceros*, *Marchantia*, *Conocephalus*, etc.)

**Haberlandt, G.**

326—Ueber das Längenwachsthum und den Geotropismus der Rhizoiden von *Marchantia* und *Lunularia*. Oesterr. Bot. Zeitschr., xxxix. 93-98 (1889).

327—Die Lebermoose Deutschland. 8vo., pp. 90, 12 Taf. col., Gera (1885).

**Haines, Mary Parry.** Cinnaminson, N. J., 24 Dec. 1826. †Richmond, Ind., 8 Dec. 1884.

328—List of Ferns, Mosses, Hepaticæ and Lichens collected in Wayne County, Indiana. Rep. Geol. Survey, viii.-x, 235-239 (1879).

(List of 20 Hepaticæ, p. 238).

**Hall, Elihu.** Virginia, June, 1822. †Athens, Illinois, Sept. 1882.

See *Wolf, J.*

**Haller, Albert von.** Bern, Switzerland, 16 Oct. 1708. †Bern, 12 Dec. 1777.



329—Enumeratio methodica stirpium Helvetiæ indigenarum. 2 vol., folio, pp. 36,794, 24 tab. (1742).

(Includes 3 Hepaticæ identified by Lindberg as *Jungermania ventricosa*, *Aneura palmata* and *Anthoceros multifidus*.)

**Hampe, Ernst.** Furstenberg an den Weser, Germany, 5 July 1795 ; † Helmstedt (near Blankenburg), 23 Nov. 1880.

330—Bericht über die Hepaticæ welche Hr. Moritz in Columbien sammelte und dem königlichen Herbarium in Schöneberg über lieferte nach der Synopsis Hepaticarum und den Moritzschen Nummern aufgeführt. *Linnæa*, xx. 321–326 (1847).

(Includes 3 new species of Hepaticæ.)

331—Enumeratio Hepaticarum, quæ in Sectione ii. Plantarum Chiliensium et in plantarum Peruvianis A. W. Lechler collectis et a R. J. Hohenacker editis occurrunt. *Linnæa*, xi. 552–556 (1854).

(List of 29 Hepaticæ, 6 new species.)

**Hampe, Ernst, et Gottsche, C. M.**

332—Expositio Hepaticarum Portoricensium quas collegit Schwanecke, hortulanus. *Linnæa*, ix. 337–358 (1852).

**Henry.**

333—Catalogue des Mousses et Hépatiques de Provence. 8vo., pp. 22, Aix (1867).

**Hansel, Vinzez.**

334—Ueber die Keimung der *Preissia commutata* N. v. E. Sitzungsber. der kais. Akad. der Wissensch. (Wien), lxxiii. 89–97 (1876). [Sep. pp. 9, 1 Taf.]

**Hart, H. Ch.**

334a—On the Botany of Sinai and South Palestine. *Trans. Roy. Irish Acad.* xxviii. 373–452 (1885).

(List of 4 Hepaticæ, p. 451, determined by Mitten.)

335—Localities for Irish Hepatics and Mosses. *Jour. of Bot.* xxiv. 360–362 (1886).

(List of 10 Hepaticæ.)

**Hartman, Carl Johan.** Gefle, Sweden, 14 April 1790. † Stockholm, 27 Aug. 1849.

336—Handbok i Skandinaviens Flora, innefattande Sveriges och Noriges Vaxter, till och med Mossorna. 8vo., pp. 32, lxiii. 488, 2 tab. (1820).

(Succeeding editions have been published, 1832, 1838, 1843, 1849, 1854, 1864.)

**Hazslinszky, F.**

337—A magyar bivodalum mossfloraja. Kgl. Ung. Naturw. Gessell. (Budapesth), (1885).

(Handbook of Hungarian Bryophytes includes 123 species of Hepaticæ.)

**Hedwig, Johann.** Kronstadt in Siebenburgen, Germany, 8 Oct. 1730.

† Leipzig, 18 Feb. 1799.

338—Theoria generationis et fructificationis plantarum cryptogamicarum. 4to., pp. 164, 37 tab. Petropoli (1784).

339—Theoria generationis et fructificationis plantarum cryptogamicarum Linnæi retractata et aucta. 4to. pp. xii. 268, 42 tab. Lipsiæ (1798).

**Heeg, M.**

340—Niederösterreichische Lebermoose. Ein Beitrag zur Kenntniss derselben. Verhandl. zool.-bot. Gesellsch. (Wien). xli. 567-573 (1891).

(Adds 38 Hepaticæ to the known list of the region.)

**Hegelmaier, F.**

341—Ueber die Moosvegetation des schwäbischen Jura. Württembergischenaturwissensch. Jahreshfte, xxix. 145-254 ( ).

(Includes 80 Hepaticæ.)

**Hemsley, W.** Botting.

342—Reports on Botany of the Bermudas, Ascension Is., St. Helena, etc. Challenger Reports. Part I. 92, 93; Part II. 43-45, 105, 176-178, 202, 203.

(Lists of known species; new species by Mitten.)

**Henfrey, Arthur.** Aberdeen, Scotland, 1 Nov. 1819. † Turnham Green, near London, 7 Sept. 1859.

343—On the development of the spores and elaters of *Marchantia polymorpha*. Trans. Linn. Soc. xxi. 103-110, t. xi. (1853).

**Henriquez, J.**

344—Hepaticas colhidas em Portugal. Boletin da Soc. Brot. iv. 234-249 (1886).

(List of 81 species. Synopsis of Genera. Descriptions of 5 species by Stephani and Lindberg.)

**Herpell, G.**

345—Die Laub- und Lebermoose in der Umgegend von St-Goar. Vehl. der nat. ver. der preuss. Rhinl. und westph. 27 Jahrg., iii Folge, vii. (1870). [Sep. pp. 25.] *Ibid.* 34 Jahrg. V Folge, iv. (1877).

[Sep. pp. 35.]

**Herter, L.**

346—Beitrag zur Moosflora Württembergs. Jahresh. des Ver. für vaterl. Naturkunde in Württ. 175–220 (1887).

(List of 92 Hepaticæ.)

**Heuffler, Ludwig, Ritter von.** Innsbruck, Tyrol, 26 Aug. 1817.

347—Specimen Florae cryptogamae Vallis Arpasch Carpatæ Transilvani. Folio, pp. 66, 7 Taf. Vienna (1853).

(Includes 28 Hepaticæ.)

**Hill, John.** Peterborough, England, 1716. † London, 22 Nov. 1775.

348—A general Natural History. Vol. II. A history of Plants. Folio, pp. xxvi., 642, London (1751).

(Describes 19 Hepaticæ.)

**Hitchcock, Edward.** Deerfield, Mass., 24 May 1793. † Amherst, Mass., 27 Feb. 1864.

349—Catalogue of the Plants growing without Cultivation in the State of Massachusetts. Report on Geol. of Mass., 599–649 (1833). [Also Sep. pp. 54, Amherst (1835).]

(List of 24 Hepaticæ.)

**Höfer, Fr.**

350—Beitrag zur Cryptogamenflora von Niederösterreich. Verhandl. der zool. bot. Gesellsch. (Wien.), xxxvii. 379, 380 (1887).

**Hoffman, George Franz.** Marktbreit, Bavaria, 31 Jan. 1761. † Moscow, Russia, 17 March 1826.

351—Deutschlands Flora. Zweiter Theil für das Jahr 1795. Kryptogamie. 12mo., pp. 100, 200, 14 tab. col. Erlangen (1795).

**Hofmeister, Wilhelm.** Leipzig, Germany, 18 May 1824; † Lindenu (near Leipzig), 12 Jan. 1877.

352—Vergleichende Untersuchungen der Keimung, Entfaltung und Fruchtbildung höherer Kryptogamen. 4to. pp. viii. 179, 33 Taf. Leipzig (1851).

(The foundation of exact knowledge of the development of the Hepaticæ and higher groups; Illustrates *Anthoceros lævis* et *A. punctatus*, t. I.–III. *Pellia epiphylla*, t. IV. fig. 9–30, t. V., t. VI., f. 1–12. *Metzgeria furcata*, t. IV., fig. 1–8. *Aneura pinguis* et *A. multifida*, t. VI., fig. 13–30. *Blasia pusilla*, t. VI., fig. 31–36. *Fossombronina pusilla*, t. VI., fig. 37–48. *Frullania dilatata*, t. VII., t. VIII., fig. 1–9. *Cephalozia bicuspidata*, t. IX., fig. 1–20. *C. divaricata*, t. VIII., fig. 56–64. *Radula complanata*, t. VIII., fig. 10–32. *Riccia glauca*, t. X. and *Marchantiaceæ*, t. XI., XII.)

353—Zur Morphologie der Moose. Bericht der köngl. Sachsischen Gesellsch. der Wissensch. 94–106, t. 4–7 (1854).

(Describes development of *Riella Reuteri*.)

354—Zusetze und Berichtigungen zu den 1851 veröffentlichten Untersuchungen der Entwicklung höherer Kryptogamen. Prings. Jahrb. iii. 259–292 (1861).

(Additional points in development of *Anthoceros lævis*, pp. 259–262.)

355—On the germination, development and fructification of the Higher Cryptogamia. (Translated by Frederick Currey.) 8vo. pp. 491, London (1862).

(A translation and revision of the three preceding papers.)

**Hoffmeister, W.**

356—Beiträge zur Kryptogamenflora der Umgegend Osnabrücks. Jahrb. des naturw. Ver. zu Osnabrück, vii. 138–143 (1889).

**Holle, G. von.**

357—Ueber das Zellenblaschen der Lebermoose. 8vo. pp. 26, 1 Taf. Heidelberg (1857).

**Holler, A.**

358—Die Moosflora der Ostrachalpen. Ein Beitrag zur Bryogeographie des Algäu. Jahrb. des Naturw. Ver. für Schwaben und Neuberg in Augsburg, xxix. 118–270 (1887).

(List of 62 Hepaticæ.)

**Holmes, Edward M.**

359—The Cryptogamic Flora of Kent. Jour. of Bot. 43–54 (1878).

(List of 48 Hepaticæ.)

**Hooker, Joseph Dalton.** Halesworth (Suffolk), England, 30 June 1817.

360—Handbook of the New Zealand Flora. 2 vol. 8vo. pp. lxxviii. 798, London (1864–67).

(Describes about 200 species of Hepaticæ, pp. 497–549.)

361—*Jungermannia Bertoana*. Bot. Miscellany, ii. 148–150, t. lxxviii. (1831).

**Hooker, Joseph Dalton, and Taylor, Thomas.**

362—Hepaticæ Antarcticae: being characters and brief descriptions of the Hepaticæ discovered in the southern circumpolar regions during the voyage of H. M. Discovery Ships, Erebus and Terror. Lond. Jour. of Bot. iii. 366–400, 454–481 (1844).

(Descriptions of Hepaticæ largely from Falkland Islands and Cape Horn.)

363—Hepaticæ Antarcticae supplementum, or specific characters with brief descriptions of some additional species of the Hepaticæ of the Antarctic Regions, New Zealand and Tasmania, together with a few from the Atlantic Islands and New Holland. Lond. Jour. of Bot. iv. 79–97 (1845).

364—Hepaticæ, in Flora Antarctica. Botany of the Antarctic voyage of H. M. discovery ships Erebus and Terror, in the years 1839–43. ii. 423–446, London (1847).

(Hepaticæ of Fuegia, the Falklands and Kerguelen Islands.)

**Hooker**, William Jackson. Norwich, England, 6 July 1785. † Kew, 12 Aug. 1865.

365—British Jungermanniæ, being a history and description with coloured figures of each species of the genus and microscopical analyses of the parts. Folio, 88 tab. col., London (1816).

(This classic work will stand as the foundation of exact description and delineation.)

366—Plantæ cryptogamicæ quas in plaga orbis novi æquinoctiali collegerunt Alexander von Humboldt et Aimé Bonpland. Adjectis tabulis species quasdam novas minusve cognitâs (Muscorum frondosorum et hepaticorum) exhibentibus nec non Alexandri de Humboldt notationibus quibusdam plantarum geographiam spectantibus. 4to. 4 tab. col., London (1816).

367—Musci Exotici, containing figures and descriptions of new or little known foreign mosses and other cryptogamic subjects. 8vo. Vol. i., tab. 1–96 (1818); Vol. ii. tab. 97–176 cum textu. London (1820).

(Contains numerous plates of Hepaticæ.)

368—Flora Scotica, or a description of Scottish plants arranged both according to the artificial and natural methods. 2 vol. 8vo. pp. x. 292, 297, London (1821).

(Includes the Hepaticæ, pp. 109–120.)

**Hooker**, William Jackson, and **Taylor**, Thomas.

369—Muscologia Britannica, containing the mosses of Great Britain and Ireland, systematically arranged. 2d Ed. 8vo. pp. 272, 36 tab., London (1827).

(Contains the Hepaticæ, pp. 211–241.)

**Hooker**, William Jackson, and **Wilson**, W.

370—Enumeration of the Mosses and Hepaticæ collected in Brazil by George Gardner, Esq. Lond. Jour. of Bot. iii. 149–167 (1844).

**Hudson**, William. Kendal, (Westmoreland), England, 1730 † London, 23 May 1793.

371—Flora Anglica. 8vo. pp. viii. 506, London (1762).

(Contains descriptions of Jung. multiflora and J. quinqueidentata. Two later editions were published.)

**Hübener**, J. W. P. † Hamburg, Germany, Feb. 1847.

372—Hepaticologia Germanica, oder beschreibung der deutschen Lebermoose. 8vo., pp. 314, Mannheim (1834).

**Hübener, J. W. P., et Genth, C. F. F.**

373—Deutschlands Lebermoose exsiccata.

**Husnot, Tranquille.** Cahan (Orne), France, 21 April 1840.

374—Catalogue des Muscinées récoltées aux Antilles Françaises. I. Hépatiques. Rev. Bryol. ii. 1–5 (1875).

375—Hepaticologia Gallica, flore analytique et descriptive des Hépatiques de France et de Belgique, accompagnée de planches représentant chaque espèce de grandeur naturelle et ses principaux caractères grossis. 8vo., pp. 102, 13 pl. Caen (1881).

376—Catalogue analytique des Hépatiques du Nord-Ouest. Bull. de la Soc. Linn. de Normandie, —, 134–157 (1881). [Sep. 24 pp.]

377—Hepaticæ Galliæ, (Exsiccatae). Fascicules I.–VIII., Nos. 1–200.

(Issued by the collaboration of many other bryologists.)

378—Hépatiques des Antilles récoltées par Husnot et déterminées par Gottsche.

(A series of 48 species exsiccatae.)

379—Le genre Riella. Rev. Bryol. xix. 44–46 (1892).

380—Note sur les Riccia. Rev. Bryol. xix. 58 (1892).

**Itzigsohn, Hermann.** Neudamm, Germany, — 1814.

381—Die märkischen Lebermoose. Bot. Zeitung, vii. 481–485 (1849).

(List of 49 Hepaticæ.)

**Jack, Josef Bernhard.** Salem, Baden, 21 March 1818.

382—Die Lebermoose Badens. Bericht. der naturf. Gesellsch. zu Freiberg, — (1870). [Sep. pp. 92.]

(Describes 108 Hepaticæ.)

383—Hepaticæ Europæ. Bot. Zeitung, xxxv. 49–59, 65–74, 81–93, 97–111 (1877).

(Review of Dumortier's work.)

384—Die Europäischen Radula-Arten. Flora, lxiv. 353–362, 385–400 t. vii. viii. (1881). [Sep. pp. 24.]

385—Monographie der Lebermoosgattung Physiotum. Hedwigia, xxv. 49–87, t. i.–x. (1886).

**Jack, J. B., Leiner und Stizenberger.**

385a—Kryptogamen Badens. Fasc. i.–xx. (?–1870).

(Contains over 100 Hepaticæ exsiccatae among other Cryptogams.)

**Jack, J. B. et Stephani, F.**

386—Porella Levieri, Jack et Stephani n. sp. Flora, lxxi, 496–498 (1888).

387—Hepaticæ Wallisianæ. Hedwigia, xxxi. 11–27, Taf. i.–iv. (1892).

(22 new Hepaticæ from South America and the Philippines.)

**Jeubernat, E.** See *Martrin-Donos, V.*

**Janczewski, Eduard von.**

388—Vergleichende Untersuchungen über die Entwicklungsgeschichte der Archegoniums. Bot. Zeitung, xxx. 377-393, 401-420, 440-442 (1872).

**Janzen, P.**

389—Die Moosflora Elbings. Westpreus. bot.-zool. Vereins zu Elbing, iv. 28-39 (1881).

(List of 35 Hepaticæ.)

389a—Die Moosflora Elbings. Schrift. der naturf. Gesellsch. in Danzig. v. 45-56 (1882).

(List of 37 Hepaticæ.)

**Jenner, Edward.**

390—New localities for *Jungermannia Turneri*. Phytologist, i. 718 (1844).

**Jensen, Thomas.** See also *Lange, J.*

391—Conspectus Hepaticarum Daniæ, eller Beskrivelse af de dansk halvmosser. Bot. Tidsskrift, i. 56-166 (1866).

(Describes 78 Hepaticæ.)

392—Additamenta ad Bryologian et Hepaticologiam danicam. Bot. Tidsskrift, ii. 266-289 (1868).

**Juratzka, Jakob.**

393—Zur Moosflora Oesterreichs. Verhandl. des zool.-bot. Verein in Wien. xi. 121-124 (1861); xiii. 499-504 (1863).

394—Muscorum species novae. Verhandl. des zool.-bot. Verein in Wien. xx. 167, 168 (1870). [Also *Hedwigia*, ix. 33, 34 (1870).]

(Describes Jung. Reichardt's *Gottsche in litt.*)

**Kaalaas, B.**

395—Bidrag til Kundskaben om Mossernas udbredelse i Norge. Christiania Vid.-Selsk. Forhandl. No. 4 (1886). [Sep. pp. 4.]

396—Nogle nye Skandinaviske Moser. Bot. Notiser 227-229 (1888).

397—Levermosernes udbredelse i Norge. Fortegnelse over de i Norge hidtil jagttagne Levermoser med angivelse af deres udbredelse og bekendte voksesteder. Nyt. Mag. Naturvid. (Christiania), 1-192 (1892).

(An elaborate account of the distribution of the Hepaticæ of Norway; the work is as yet incomplete.)

**Karsten, G.**

398—Beiträge zur Kenntniss von *Fegatella conica*. Bot. Zeitung, xlv. 649-655, Taf. viii. (1887).

**Kaurin, Chr.**

398—*Sarcoscyphus capillaris* Limpricht. Bot. Notiser, 88 (1886).

399—*Gymnomitrium crassifolium* Carr. funden i Norge. Bot. Notiser, 34, 35 (1887).

**Kiaer, F. C.**

399a—Christianias Mosser, Christiania Vid. Selsk. Forhandl. No. 12, i.—xxxvi. 1–95 (1885).

(Includes 77 Hepaticæ.)

**Kienitz-Gerloff, Felix.** Berlin, Germany, 15 Jan. 1851.

400—Beiträge zur Entwicklungsgeschichte des Lebermoos-Sporogoniums. Inaugural Dissertation, 8vo., pp. 42, Berlin (1872).

401—Vergleichende Untersuchungen über die Entwicklungsgeschichte des Lebermoos-Sporogoniums. Bot. Zeitung, xxxii. 161–172, 193–204, 209–217, 224–235, t. iii. iv. (1874).

402—Neue Beiträge zur Entwicklungsgeschichte des Lebermoos-Sporogoniums. Bot. Zeitung, xxxiii. 777–782, 793–799, t. ix (1875).

403—Die morphologische Bedeutung der Laubmooskapsel in Vergleich zur Lebermoosfrucht. Sitz. des Gesellsch. naturf. Freunde zu Berlin (1876).

404—Ueber den genetischen Zusammenhang der Moose mit den Gefässkryptogamen. Beilage zum Tagebl. der vers. deutscher Naturf. und Aerzte zu Hamburg, xlix. 100 (1876).

405—Ueber den genetischen Zusammenhang der Moose mit den Gefässkryptogamen und Phanerogamen. Bot. Zeitung, xxxiv. 705–714, 720–723 (1876).

406—Ueber die Bedeutung der Paraphysen im Anschluss an H. Leitgeb: Wasserausscheidung an den Archegonständen von *Corsinia*. Bot. Zeitung, xlv. 248–251 (1886).

**Kickx, Jean (filius).** Brussels, Belgium, 17 Jan. 1803. † Brussels, 1 Sept. 1864.

407—Sur la *Marchantia fragrans* des auteurs Belges. Acad. Sci. Bull. Bruxelles, iv. 19–21 (1837).

408—Recherches pour servir à la Flore cryptogamique des Flandres. Centuries i.–v. 4to. Brussels (1840–55).

409—Flore cryptogamique des Flandres. 2 vol. 8vo., pp. 521, 490, Gand et Paris (1867). [Posthumous.]

**Kerner, A.**

410—Schedae ad Floram exsiccataam Austro-Hungaricam. 8vo. pp. iv. 177, Vindebonae (1884).



**Killias, Ed.**

411—Die Flora des Unterengadins mit besonderer Berücksichtigung der Speciellen Standorte und der allgemeinen Vegetationsverhältnisse. Beilage zu den Jahresb. der naturf. Gesellsch. Graubundens, xxxi. pp. lxxiii. 262 (1886–87).

(List of 44 Hepaticæ, pp. 222–244.)

**Kirk, T.**

412—Notice of the discovery of the *Monoclea Forsteri* Hook. in New Zealand. Trans. and Proc. New Zealand Inst. x. 418, 419 (1879).

**Klein, J.**

413—Sprossung an den Inflorescenzstielen von *Marchantia polymorpha*. Bot. Centralbl. v. 26–28 (1881).

**Klinggräff, H. von.**

414—Bereisung der Gegend von Lautenburg im Juli 1881 und Bereisung des schwetzer Kreises im Jahre 1881. Jahresb. des westpreuss. bot.-zool. Vereins, v. 26–57 (1882).

(List of 12 Hepaticæ.)

415—Bericht über meine Bereisung der Lautenburger Gegend. Schrift. der naturf. Gesellsch. in Danzig, v. 57–77 (1882).

(List of 79 Hepaticæ.)

416—Bericht über die botanischen Reisen im neustädter Kreise im Sommer 1882. Mittheil. des westpreuss. bot.-zool. Vereins, vi. 18–28 (1883).

(List of 39 Hepaticæ.)

417—Botanische Reisen im Kreise Karthaus in den Monaten Juni, Juli und August 1884. Schrift. der naturf. Gesellsch. Danzig, vi. 64–84 (1886).

(List of 23 Hepaticæ.)

418—Botanische Reisen im Sommer 1888. Schrift. der naturf. Gesellsch. in Danzig, vii. 247–250 (1889).

(Includes new localities for Hepaticæ.)

**Knowlton, Frank Hall.** Brandon, Vt., 2 Sept. 1860.

419—Additions to the flora of Washington and Vicinity. Proc. Biol. Soc. Washington, iii. 106–132 (1886).

(List of 57 Hepaticæ from the District of Columbia collected by Rev. E. Lehnert.)

**Kny, Leopold.** Breslau, Germany, 6 July 1841.

420—Symbola ad hepaticarum frondosarum evolutionis historiam. 8vo. pp. 51, Berlin (1863).

421—Beiträge zur Entwicklungsgeschichte der laubigen Lebermoose. Pringsh. Jahrb. iv. 64–100, t. v.–vii. (1864).

422—Ueber Bau und Entwicklung der Riccien. Pringsh. Jahrb. v. 364–386, t. xliv.–xlvi. (1867).

423—Durchwachsungen an den Wurzelhaaren zweier Marchantiaceen. Sitzungsab. des Bot. Vereins der Prov. Brandenburg, xxi. 2–5, Taf. ii. (1879).

424—Bau und Entwicklung von Marchantia polymorpha. Sonderabdruck aus dem Text zu den "Botanischen Wandtafeln," Lieferung viii. 364–401 (1890).

**Koltz, J. P. J.**

425—Prodrome de la flore du Grand-Duché de Luxembourg. II Partie. Recueil des Mem. et des Trav. pub. par la Soc. Bot. du Grand-Duché de Luxemburg, vi. vii. viii. 38–95 (1880–1882).

(List of 101 Hepaticæ)

**Körber, Gustav Wilhelm.** Hirschberg, Germany, 10 Jan. 1817.

426—Grundriss der Kryptogamen-Kunde. Zur Orientirung beim Studium der kryptogamischen Pflanzen, so wie zum Gebrauch bei seinen Vorlesungen. 8vo. pp. viii. 203, Breslau (1848).

(Includes the Hepaticæ, pp. 101–116.)

**Kremer, J. P.**

427—Monographie des Hepatiques de la Moselle, suivie d'une methode analytique des genres et des especes. 8vo. pp. iv. 44, Metz (1837); 2d Ed. pp. 51, Metz (1863).

**Krok, Th. O. B. N. och Almquist, S.**

428—Svensk Flora för Skolor. II. Kryptogamer. 8vo., pp. 60, Stockholm (1886).

**Kruch, Oswald.**

429—Appunti sullo sviluppo degli organi sessuali e sulla fecondazione della Riella Clausonis Let. Malpighia, iv. 403–423, Pl. XVII., XVIII. (1890).

**Krupa, J.**

429a—Zapiski Bryjologiczne zokolic Lwora Krakowa i wschodnich Karpat. S. Kom. Fiz. Krak. xix. 133–164 (1885).

(List of 93 Polish Hepaticæ).

**Kummer, Paul.**

430—Der Führer in die Lebermoose und die Gefäßkryptogamen. 8vo., pp. 141, 7 taf. Berlin (1875).

(Includes 40 genera and 143 species of Hepaticæ).

**Kunth, Karl Sigismund.** Leipzig, Germany, 18 June 1788. † Berlin, 22 March 1850.

431—Synopsis Plantarum quas in itinere ad plagam æquinoctialem Orbis Novi collegerunt Alexander de Humboldt et Aimé Bonpland. 4 vol., 8vo., Paris (1822–1825).

(Includes 19 Hepaticæ, Vol. i., pp. 40–45).

**Kuntze, Otto.**

431a—Revisio Generum Plantarum, etc. 8vo. pp. 1011, Leipzig, etc. (1891).

(Includes revision of the genera of Hepaticæ, pp. 829–840 based largely on the changes produced by S. F. Gray. The new genus *Stephanina* is substituted for *Radula*, and numerous species are transferred to modern genera.)

**La Billardiere, Jacques Julien Houton de.** Alençon, (Orne), France, 28 Oct. 1755. † Paris, 8 Jan. 1834.

432—Novae Hollandiæ plantarum specimen. 2 vol., 4to., pp. 112, 130, 265 ta. (1804–6).

**Lackstrom, E. F.** See *Lindberg, S. O.*

**Lamarck, Jean Baptiste Antoine Pierre Monnet, Chevalier de.** Bazentin, (Somme), France, 1 Aug. 1744. † Paris, 18 Dec. 1829. See also *De Candolle, A. P.*

433—Tableau encyclopedique et methodique des trois regnes de la nature. Botanique. Illustration des genres. 3 vol., 4to., pp. xvi. 496, 551, 728. Paris (1791–1823).

(Includes the Hepaticæ, pp. 476–480.)

**Lamy, Edouard.**

434—Simple aperçu sur les Mousses et les Hépatiques du Mont Dore. Rev. Bryol. ii. 37–43 (1875). Supplement, *Ibid.* v. 33–43 (1878).

(Catalogue of species with stations.)

435—Mousses et Hépatiques de la Haute-Vienne. Rev. Bryol. ii. 49–101 (1875).

(Catalogue of species with stations.)

**Lange, Johan.**

436—Hepaticæ, in Meddelelser om Grönland. Tredie Hefte. 407–421, Kjobenhavn (1887).

(List of 61 Hepaticæ).

**Lange, Johan, et Jensen, C.**

437—Grönlands Mosser. In Lange's Conspectus Floræ Grœnlandicæ. Pars ii., 309–426. Kopenhagen (1887).

(Includes 62 Hepaticæ).

**Langfeldt, J.**

438—Höhere Kryptogamen Trittans. Schrift. des naturwiss. Vereins für Schleswig-Holstein, iv. 117–132 (1882).

(List of 36 Hepaticæ).

**Langlois**, Auguste Barthélemy. Chavanay, (Loire), France, 24 April 1832.

439—Catalogue provisoire de Plantes Phanérogames et Cryptogames de la Basse-Lousiane, Etats-Unis d'Amérique. 8vo., pp. 35, Pointe-à-la-Hâche (1887).

(List of 29 Hepaticæ, p. 26).

**Leclerc du Sablon**, Mathieu. Bagnols, (Gard), France, 25 March 1859.

440—Recherches sur le développement du Sporogone des Hépatiques. Ann. des Sc. Nat. xxx. 7 ser. ii. 126–180, Pl. VII.–XI. (1885). (Sep. pp. 59).

441—Sur l'origine des Spores et des Elateres chez les Hépatiques. Comptes Rendus, —, 1391–1403 (1885).

442—Sur le développement du Sporogone de *Frullania dilatata*. Bull. Soc. Bot. de France, ser. 2, vii. 187–191 (1885).

443—Sur le Sporogone des Hépatiques et le rôle des Elateres. Bull. Soc. Bot. de France, xxxii. 30–33 (1885).

**Lehmann**, Johann Georg Christian. Haselau (Holstein), Germany, 25 Feb. 1792. † Hamburg, 12 Feb. 1860.

444—Hepaticarum Capensium a C. F. Ecklon collectarum brevem recensionem cum Schlechtendalio suo. Linnæa, iv. 357–371 (1829).

445—Novarum et minus cognitarium stirpium. 4to., Hamburg. Pug. iv. (1832); Pug. v. (1833); Pug. vi. (1834); Pug. vii. (1838); Pug. viii. (1844); Pug. x. addita enumeratione plantarum omnium in Pug. i.–x. descriptarum (1857).

(Describes about 200 species of Hepaticæ from all parts of the world; those of Pugillus viii. were described by Gottsche, and those of Pugillus x. should be read in the light of Gottsche's criticisms in Bot. Zeitung xvi.)

446—Hepaticæ Capenses. Linnæa ix. 421–427 (1834).

447—Antrocephalus, eine neue Gattung der Lebermoose. Nova Acta Caes. Leop. xviii. 679–685 (1836).

448—Plantae Preissianae, sive enumeratio plantarum, quas in Australasia occidentali et meridionali-occidentali annis 1830–41 collegit Ludwig Preiss. 2 vol. 8vo., Hamburg (1844–48).

(18 Hepaticæ enumerated, Vol. ii., pp. 120–130.)

**Lehnert**, E. See *Knowlton*, F. H.

**Leitgeb**, Hubert. Portendorf (Carinthia), Austria, 23 October 1835. † Graz, 5 April 1888.

449—Beiträge zur Entwicklungsgeschichte der Pflanzenorgane. IV. Wachstumsgeschichte von *Radula complanata*. Sitzb. der Akad. der Wissensch. (Wien) lxi. (1871).

450—Ueber die Verzweigung der Lebermoose. Bot. Zeitung, xxix. 557–565 (1871).

451—Ueber endogene Sprossbildung bei Lebermoosen. Bot. Zeitung, xxx. 33–41 (1872).

452—Ueber Blasia. Zeitschr. für Gesammte Naturwiss. (Halle) xl. (1872).

453—Ueber die Spaltöffnungen der Marchantiaceae. Zeitschr. für Gesammte Naturwiss. (Halle) xl. (1872).

454—Zur Morphologie der Metzgeria furcata. Mittheil. des naturw. Vereins für Steiermark, 2 tab. (1872). [Sep. 12 pp.]

455—Monströser weiblicher Hut von Marchantia polymorpha. Verhandl. der deutscher Naturf. und Aerzte zu Graz, xviii. Bot. Zeitung, xxxiii. 747 (1875).

456—Mittheilung einiger Resultate der morphologischen Forschung über die Lebermoose. Verhandl. der deutscher Naturf. und Aerzte zu Graz, xviii. Bot. Zeitung, xxxiii. 749 (1875).

457—Ueber Zoopsis. Mittheil. des naturw. Vereins für Steiermark, —, 1 taf. (1876). [Sep. 10 pp.]

458—Die Entwicklung der Kapsel von Anthoceros. Sitzb. der Akad. der Wissensch. (Wien), lxiii. 255–266, 1 taf. (1876). [Sep. 12 pp.]

459—Die Keimung der Lebermoossporen in ihrer Beziehung zum Lichte. Sitzb. der Acad. der Wissensch. zu Wien, lxxiv. 425–435, 1 taf. (1876). [Sep. 12 pp.]

460—Ueber verzweigte Moossporangien. Mittheil. des naturw. Vereins für Steiermark, ————— 1 taf. (1876). [Sep. 20 pp.]

461—Die Nostoccolonien im Thallus der Anthoceroteen. Sitzb. der Akad. der Wissensch. Wien, lxxvii. 411–418 (1878).

462—Die Athemöffnung der Marchantiaceen. Sitzb. der Akad. der Wissensch. (Wien), lxxxi. 40–54, 1 Taf. (1880). [Sep. pp. 15.]

463—Die Inflorescenzen der Marchantiaceen. Sitzb. der Akad. der Wissensch. (Wien), lxxxi. 123–143 (1880). [Sep. pp. 21.]

464—Ueber die Marchantiaceengattung Dumortiera. Flora, lxiii. 307–312 (1880).

465—Untersuchungen über die Lebermoose. 4to., Graz, (1874–1881).

I. Blasia pusilla, pp. 82, 5 taf. (1874).

II. Die foliosen Jungermannieen, pp. 95, 4 taf. (1875).

III. Die frondosen Jungermannieen, pp. 144, 9 taf. (1877).

IV. Die Riccieen, pp. 101, 9 taf. (1879).

V. Die Anthoceroteen, pp. 60, 5 taf. (1879).

VI. Die Marchantieen und allgemeine Bemerkungen über die Lebermoose, pp. 158, 11 taf. (1881).

(The most important and comprehensive contribution to the morphology of the Hepaticæ.)

466—Die Stellung der Fruchtsacke bei den geocalyceen Jungermanneen. Sitzb. der Akad. der Wissensch. (Wien.), lxxxiii. 515–521 (1881). (Sep. 7 pp.)

467—Ueber Bau und Entwicklung einiger Sporen. Ber. der deutscher Bot. Gesellsch. i. 247–256 (1883).

(*Corsinia*, *Sphaerocarpus*, *Preissia*, *Duvalia*, *Reboulia*, *Fimbriaria*, *Plagiochasma*.)

468—Ueber Bau und Entwicklung der Sporenhäute und deren Verhalten bei der Keimung. 8vo., pp. 112, 3 taf. Graz, 1884.

469—Wasserausscheidung an den Archegonständen von *Corsinia*. Flora, lxxviii. 327–330 (1885).

**LeJolis**, Auguste. Cherbourg, France, 1823.

470—[Note on *Lunularia Dillenii*.] Mem. de la Soc. des Sc. Nat. de Cherbourg, i. 191 (1852).

470 a—Du nom de genre *Porella*. Rev. Bryol. xix. 97–101 (1892).

**Letacq**, Arthur Louis. Heugon, (Orne), France, 20 Oct. 1855.

471—Bryologie des environs d'Ecouché, département de l'Orne. Bull. Soc. scientifique d'Argentan, No. 5–7 (1884).

(List of 26 Hepaticæ.)

472—Recherches sur la distribution géographique des Muscinées dans le Département de l'Orne, et Catalogue methodique des espèces récoltées dans cette région. Rev. de Botanique, iv. 6–60 (1885). [Sep. pp. 60].

(List of 52 Hepaticæ.)

473—Note sur les Mousses et les Hépatiques des environs de Bagnoles, et observations sur les végétation des grés siluriens de l'Orne. Bull. de la Soc. Linn. de Normandie, ser. 4, iii. (1889). [Sep. pp. 17].

(Discusses distribution over geologic outcrops.)

**Lett**, H. W.

474—Report on the Mosses, Hepatics and Lichens of the Mourne Mountain district. Proc. Roy. Irish Acad. 3d ser., i. 265–325 (1890).

(List of 54 Hepaticæ.)

**Leunis**, J.

475—Synopsis der drei Naturreiche. II. Theil. Botanik. 8vo. Hannover (1886).

(General account of Hepaticæ with synopses of some genera, etc.)

**Lavier**, E.

476—Una varietà nuova inermis della *Riccia atomarginata* Lev. Nuovo Giorn. Bot. Ital. xxii. 288 (1890).

477—Crittogame dell' Alta Birmannia, raccolte dal Sig. Leonardo Fea. Nuovo Giorn. Bot. Ital. xxiii. 600-602 (1891).

(List of 10 Hepaticæ; describes 1 new species.)

**Libert**, Marie Anna. Malmedy, France, 7 April 1782. † Malmedy, 14 Jan. 1865.

478—Sur un genre nouveau d'Hépatiques, Lejeunia. Ann. Gen. des Sci. Phys. (Bruxelles) vi. 372-374. t. 96 (1820).

479—Plantae Cryptogamicæ Ardennes (1830-37).

(Includes 13 Hepaticæ, Nos. 10, 11, 110, 111, 209-213, 309-312.)

**Liebmann**, Frederick Michael. Helsenör, Denmark, 10 Oct. 1813.

† Copenhagen, 29 Oct. 1856. See *Gottsche, C. M.*

**Lightfoot**, John. ———, England, 9 Dec. 1735. † Uxbridge, 18 Feb. 1788.

480—Flora Scotica: or a systematic arrangement in the Linnæan method of the native plants of Scotland and the Hebrides. 2 vol. 8vo. pp. xlii. 1151, 35 tab. London (1777).

(Includes the Hepaticæ pp. 719-800.)

**Limpricht**, Karl Gustav. Eckersdorf bei Lagan, Germany, 11 July 1834.

481—Ueber das Vorkommen der Lebermoose im Schlesisch-Mährischen Gesenke. Jahrb. der Schles. Gesellsch. xlix. 75-81 (1871).

482—Lebermoose, in *Cohn*: Kryptogamen-Flora von Schlesien. 1227-352, 429-444 (1877).

(Includes 134 Hepaticæ.)

483—Schlesische Lebermoose. Hedwigia, xv. 17-19 (1876).

484—Die Lebermoose der hohen Tatra. Jahrb. der Schles. Gesellsch. liv. 143-152 (1877).

(List of 100 Hepaticæ.)

485—Zur Lebermooseflora der hohen Tatra. Hedwigia, xvi. 59-62 (1877).

486—Die deutschen Sauteria-Formen. Flora, lxiii. 90-93 (1880).

487—Neue und kritische Lebermoose. Jahrb. der Schles. Gesellsch. lvii. 311-317 (1880).

488—Ueber Gymnomitrium adustum N. v. E. Flora, lxiv. 71-76 (1881).

489—Neue Arten und Formen der Gattung Sarcoscyphus Corda. Jahrb. der Schles. Gesellsch. lviii. 179-184 (1881).

490—Neue Muscineen für Schlesien. Jahrb. der Schles. Gesellsch. lviii. 184-186 (1881).

491—Eine verschollene Jungermannia (J. Marchica). Flora, lxv. 45-48 (1882).

492—Ueber verschollene Jungermannien. Jahresb. der Schles. Gesellschaft. lix. 313, 314 (1882).

493—Neue Bürger der schlesischen Moosflora, B. Lebermoose. Jahresb. der Schles. Gesellschaft. lx. 242, 243 (1883).

494—Einige neue Arten und Formen bei den Laub-und Lebermoosen. Jahresb. der Schles. Gesellschaft. lxi. 204–226 (1884).

**Lindberg**, Sextus Otto. Stockholm, Sweden, 29 March 1835. † Helsingfors, Finland, 20 Feb. 1889.

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497—Etheriska oljors forek ommande i Lefvermossor. Pharmaceutisk Tidskrift, 49, 50 (1863).

498—Granskning af Mossorna ati Vaillant's Botanicon parisienne. Öfvers. af Kongl. Vet.-Akad. Förhandl. xx. (1863). [Sep. 6 pp.]

499—Anomodon apiculatus, Br. et Sch. et Fimbriaria Lindenbergi, Corda novae flora Scandinaviae cives. Bot. Notiser, 125–127 (1865).

500—Sauteria seriata, Lindb. dioica (?) pedunculis in medio frondis serratis. Hedwigia, v. 33, 34 (1866).

501—Jungermania polaris n. sp. Öfvers. af Kongl. Vet.-Akad. Förhandl. xxiii. 560 (1866).

502—Förteckning öfver Mossor insamlade under de Svenska Expeditionerna till Spitzbergen 1858 och 1861. Öfvers. af Kongl. Vet.-Akad. Forhandl. xxiii. (1867). [Sep. 14 pp.]

503—Några till den Skandinaviska floran räknade Lefvermossor angående hvilkas dels utbredning dels plats i systemet, enligt hvad han ausåg origtiga åsigter gjort sig gallande. Medd. af Soc. pro Fauna et Flora Fenn. i. 96–97 (1876).

504—En för den Skandinaviska floran ny Lefvermossa, Harpanthus scutatus. Medd. af Soc. pro Fauna et flora Fenn. i. 98 (1876).

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506—Siva senaste undersökningar af Lefvermoos-släktena Lejeunea, Lophocolea och Jungermania. Medd. af Soc. pro Fauna et flora Fenn. i. 108–109 (1876).

507—Sauteria alpina i Norden till hörande två skilda arter. Medd. af Soc. pro Fauna et Flora Fenn. i. 112–113 (1876).

508—Monographia Metzgeriæ. 8vo., pp. 48, 2 pl. Helsingfors, 1877.

509—Utredning af de under namm af Sauteria alpina sammanblandade former. Bot. Notiser, 73–78 (1877).



- 510—*Riccia bicarinata* n. sp. Rev. Bryol. iv. 41-42 (1877).
- 511—En liten profbit på nammförbistring. Not. ur Sällsk. pro Fauna et Flora Fenn. ix. (1867). [Sep. pp. 18].  
(Notes on nomenclature; synonymy of *Pallavicinia*.)
- 512—*Musci Novi Scandinavici*. Not. ur Sällsk. pro Fauna et Flora Fenn. x. 255-299 (1868).  
(List of Scandinavian Marchantiaceæ; notes on synonymy.)
- 513—Nya Mossor. Ofvers. af Finska Vet. Soc. Förhandl. xii. (1869). [Sep. pp. 15].
- 514—Utredning af Skandinaviens *Porella*-Former. Acta Soc. Sc. Fenn. ix. 329-345 (1869).
- 515—Revisio critica iconum in opere Flora Danica muscos illustrantium. Acta Soc. Sc. Fenn. x. (1871).
- 516—Spridda anteckningar rörande de Skandinaviska Mossorna. Bot. Notiser, , 133-141, 162-168 (1872).
- 517—Contributio ad Flora Cryptogamicam Asiae Boreali Orientalis. Acta Soc. Sc. Fenn. x. 223-280 (1872).
- 518—On *Zoopsis* H. f. et Tayl. Jour. Linn. Soc. xiii. 188-203 (1872).
- 519—Remarks on *Mesotus* Mitt. Jour. Linn. Soc. xiii. 182-185 (1873).
- 520—*Manipulus Muscorum Secundus*. Not. pro Fauna et Flora Fenn. xiii. 353-418 (1874).
- 521—*Pallavicinia* v. *Flotowi* och *Aneura latifrons*. Not. pro Fauna et Flora Fenn. xiii. 487 (1874).
- 522—*Hepaticæ* in *Hibernia* mense Julii 1873 lectae. Acta Soc. Sc. Fenn. x. 467-559 (1875).
- 523—Om gruppen *Fossombronieæ*. Medd. af Soc. pro Fauna et Flora Fenn. i. 91 (1876).
- 524—*Hepaticologiens* Utveckling fran äldsta tider till och med Linne. 4to., pp. 51. Helsingfors (1877).
- 525—On *Riccia spuria* Dicks. Jour. of Bot., n. ser., vii. 55 (1878).
- 526—Två för Finska floran nya mossor samt om *Leptoscyphus* Mitt. Medd. af Soc. pro Fauna et Flora Fenn. iii. 170, 171 (1878).
- 527—*Cephalozia obtusiloba*, n. sp. Medd. af Soc. pro Fauna et Flora Fenn. iii. 172 (1878).
- 528—Om *Jungermania julacea* L., *J. nivalis* Sw. och *J. setiformis* Ehrh. Medd. af Soc. pro Fauna et Flora Fenn. iii. 172, 173 (1878).
- 529—Eit nytt slägte *Peltolepis*. Medd. af Soc. pro Fauna et Flora Fenn. iii. 174, 175 (1878).
- 530—Fyra för Finska floran nya Lefvermossor. Medd. af Soc. pro Fauna et Flora Fenn. iii. 183, 184 (1878).

531—*Cephalozia catenulata*, *Porella platyphylloides*, etc. Medd. af Soc. pro Fauna et Flora Fenn. iii. 187–189 (1878).

532—En utredning af några *Riccia*-arten synonymi; *Cesia obtusa* n. sp.; *Diplophyllum taxifolium*; *Madotheca simplicior*, etc. Medd. af Soc. pro Fauna et Flora Fenn. iii. 189–191 (1878).

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540—*Nardia intricata* n. sp.; *Riccardia fuscovirens* n. sp. etc. Medd. af Soc. pro Fauna et Flora Fenn. vi. 193–199 (1881).

541—Två för landets floran nya *Lefvermossor*. Medd. af Soc. pro Fauna et Flora Fenn. vi. 230, 231 (1881).

542—Tvenne för Skandinavien nya *Lefvermossor*. Medd. af Soc. pro Fauna et Flora Fenn. vi. 232 (1881).

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544—*Monographia præcursoria Peltolepidis, Sauteriæ et Cleveæ*. Acta Soc. pro Fauna et Flora Fenn. ii. No. 3, 1–15 (1882).

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546—Historiska data rörande vas kannedom om Mossorensgroning. 8vo. pp. 11. Helsingfors (1884).

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548—*Scalia Hookeri* et *Fossombronina Scandinavica* vivæ descripta. Rev. Bryol. xii. 33–44 (1885).

549—Sur la Morphologie des Mousses. Rev. Bryol. xiii., 49–60, 87–94, 100–109 (1886).

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552—*Jungermania Kaurini* och *J. Marchica*. Medd af Soc. pro  
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553—Bidrag till Nordens Moosflora, I. Medd. af Soc. pro Fauna et  
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19 (1887).

555—*Hepaticæ novæ Lusitanicæ*. Rev. Bryol. xiv. 19–21 (1887).

**Lindberg, S. O. et Arnell, H. W.**

556—*Musci Asiae Borealis*. Beschreibung der von den Schwedischen  
Expeditionen nach Sibirien in den Jahren 1875 und 1876 gesammelten  
Moose mit Berücksichtigung aller früheren bryologischen Angaben für  
das russische Nord-Asien. Erster Theil, Lebermoose. Kongl. Svenska  
Vet.-Akad. Handl. xxiii. No. 5, 1–69 (1889).

(Includes 98 *Hepaticæ*; several new species.)

**Lindberg, S. O., et Lackstrom, E. F.**

557—*Hepaticæ Scandinavicæ exsiccatae*. Fasc. I. Nos. 1–25. 14  
pp. text. Helsingfors (1874).

**Lindenberg, Johann Bernhard Wilhelm.** † Bergedorf, Germany, 6  
June 1851. See also *Gottsche, C. M.*

558—*Synopsis Hepaticarum Europæarum*. *Nova Acta Acad. Caes.*  
*Leop.* xiv. Suppl. pp. 126, 2 tab. Bonn (1829).

559—*Ueber die Lebermoos-Gattungen, Corsinia und Grimaldia*.  
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560—*Monographie der Riccien*. *Nova Acta Acad. Caes. Leop.* xviii.  
361–504, tab. xix.–xxxvii. (1836).

(The last general monograph of this group.)

**Lindenberg, J. B. W., et Gottsche, C. M.**

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(Contains elaborate monographs of *Plagiochila*, Fasc. I.–V. pp. xxix. 164, 33 tab.;  
*Lepidozia*, Fasc. VI., VII. pp. 78, 12 tab.; *Mastigobryum*, Fasc. VIII.–XI. pp. xii.  
117, 22 tab.)

562—*Plantæ Kegelianæ; expositio Hepaticarum Surinamensium*.  
*Linnæa*, viii. 625–639 (1851).

**Lindenberg, J. B. W., et Hampe, E.**

563—*Hepaticæ Oerstedianæ*. *Linnæa*, viii. 300–304, 640, 641  
(1851).

(List of *Hepaticæ* collected in Jamaica and Costa Rica.)

**Lindsay, W. Lander.**

564—List of Mosses and Hepaticæ collected in Otago, New Zealand. Trans. Bot. Soc. Edinburgh, ix. 22–27 (1868).

**Linnæus, Carl.** Rashult in Småland, Sweden, 23 May 1707.  
† Upsala, 10 Jan. 1778.

565—Systema Naturæ, sive regna tria naturæ systematicæ proposita per classes, ordines, genera et species. (1735), Ed. X. (1758–59). Ed. XII. (1766–68); Ed. XIII. (1788–93).

566—Genera Plantarum, etc. (1737); Ed. III. (1752).

567—Species plantarum, etc. 2 vol. 8vo. pp. 1200, Holmiæ (1753).  
(Contains 44 species of Hepaticæ, pp. 1131–1140; divided among Jungermania 27 species, Targionia 1 species, Marchantia 7 species, Blasia 1 species, Riccia 4 species, Anthoceros 3 species; Porella with 1 species is classed with the Musci.)

**Loitlesberger, K.**

568—Beitrag zur Kryptogamenflora Oberösterreichs. Sitzungsab. der zool.-bot. Gesellsch. (Wien), xxxix. 287–292 (1889).

**Lojacono-Pojero, M.**

569—Primo elencho Epaticologia di Sicilia. Il Naturalista Siciliano, viii. 211–220, 240–247 (1889).

(List of 37 Hepaticæ including two new species of Riccia.)

**Lucas, C.**

570—Neue Beiträge zur Moosflora der Provinz Brandenburg. Deutsche Botanische Monatschrift, 101–105, 185–188 (1885).

(List of 50 Hepaticæ.)

**Luerssen, Christian.**

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(General account of the Hepaticæ, p. 376; Structure of the orders; Genera represented in Germany with brief account of the more common species.)

**Lützow, C.**

572—Berichte über die botanische Untersuchung eines Theiles des neustädter Kreises. Mittheil. des westpreuss. bot.-zool. Vereins, iv. 71–103 (1881). Also under same title in Schrift. der naturfor. Gesellsch. in Danzig, v. 88–120 (1882).

573—Bericht über die im Sommer 1881 fortgesetzte botanische Untersuchung des Kreises Neustädt. Westpreussen. Jahresb. des westpreuss. bot.-zool. Vereins, v. 164–197 (1882).

574—Von den botanischen Excursionen pro 1885–1885 zu verzeichnende Moose. Schrift. der naturf. Gesellsch. in Danzig, vi. 115–117 (1886).

(List of 22 Hepaticæ.)

**Macchiati, M.**

575—Catalogo delle piante raccolto nei diutorni di Reggio-Calabria dal Settembre 1881 al Febrajo 1883. *Nuovo Giorn. Bot. Ital.* xvi. 59–100 (1884).

(List of 27 Hepaticæ.)

576—Contribuzione alla flora briologica nei diutorni di Cuneo. *Nuovo Giorn. Bot. Ital.* xvii. 320–329 (1885).

(List of 14 Hepaticæ.)

577—Prima contribuzione alla flora del Viterbese. *Atti della Soc. del Nat. di Modena*, ser. iii., vii. 7–61 (1888).

(List of 10 Hepaticæ.)

**Mackay, James Townsend.** † Dublin, Ireland, 15 Feb. 1862. See *Taylor, Thomas.*

**Malpighi, Marcello.** Crevalcuore, (near Bologna), Italy, 10 March 1628. † Rome, 29 Nov. 1694.

578—*Anatome Plantarum. Pars altera.* Folio, pp. 93, 39 tab. (1679.)  
(Figures one hepatic, identified by Lindberg as *Lunularia*.)

**Marchal, E.**

579—*Materiaux pour la flore cryptogamique de la Belgique.* *Comptes Rendus des seances de la Soc. Roy. de Bot. de Belgique*, xxii. 29–35, 77–89, 96–101 (1883).

(List of 67 Hepaticæ.)

**Marchant, Jean.** ———, France, about 1650. † Paris, 1738.

580—*Observations touchant la nature des Plantes, et de quelques-unes de leur parties cachies ou inconnues.* *Mem. de l' Acad. des Sc.* 99–108 (1711).

**Martelli, U.**

581—*Sulla Lejeunea inconspicua* Rd. *Nuovo Giorn. Bot. Ital.* xx. 343 (1888).

582—*Una nuova specie di Riccia.* *Nuovo Giorn. Bot. Ital.* xxi. 290–292 (1889).

**Martius, Karl Friedrich Philipp von.** Erlangen, Germany, 17 April 1794. † München, 13 Dec. 1868.

583—*Flora cryptogamica Erlangensis, sistens vegetabilia e classe ultima Linn. in agro Erlangensi hucusque detecta.* 8vo. pp. lxxviii. 508, 6 tab. Nuremberg (1817).

584—*Flora Brasiliensis.* Vol. I.: Pars prior: Algæ, Lichenes, Hepaticæ. 8vo. pp. iv. 390. Stuttgart et Tübingen (1833).

(Hepaticæ, by Nees von Essenbeck, pp. 293–390.)

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585—Florule du Tarn, ou Énumération des plantes, qui croissent spontanément dans le département du Tarn. Deuxieme Partie: Vegetaux cellulaires. 8vo. pp. xxix., 278. Paris (1867).

(Includes the Hepaticæ, pp. 157-176.)

**Massalongo**, Caro. Verona, Italy, 25 March 1852. See also *Bescherelle*, E., *Bottini*, A.

586—Enumerazione delle Epatiche finora conosciute nelle provincie Venete. Nuovo Giorn. Bot. Ital. ix. 1-20 (1877).

587—Epatiche rare e critiche delle provincie Venete. Atti della Soc. Veneto-Trent. di Sc. Nat. V. ——— t. i. ii. (1877). [Sep. 16 pp.]

588—Hepaticologia Veneta, ossia monografie delle Epatiche conosciute nelle provincie Venete. ———, 3 tav. Padova, 1879.

589—Duae species novæ e genere *Lejeunia* quas circa Buenos Ayres legit C. Spegazzini. Nuovo Giorn. Bot. Ital. xiii. 122-124, t. iv. (1881).

590—Sur la decouverte du *Dumortiera irrigua* (Wils.) Nees en Italie. Rev. Bryol. xi. 6, 7 (1884).

591—Epatiche raccolte alla Terra del Fuoco dal Dott. C. Spegazzini nell' anno 1882. Nuovo Giorn. Bot. Ital. xvii. 201-277, 17 tav. (1885).

592—Repertorio della Epaticologia Italica. Ann. del R. Ist. Bot. di Roma, ii. 87-155, t. VII-IX (1886). [Sep. pp. 71.]

593—Hepaticæ Italiæ-Venetæ exsiccatae. 4 fasc. (Nos. 1-120) (1878-1881).

594—Appunti Statistici sull' Epaticologia Italica con relative indicazioni fitografiche. Atti del Congr. Nazionale di Bot. Crittog. in Parma, 1887. (Sep. pp. 16.)

595—Osservazioni critiche sulle specie e varietà di Epatiche Italiane create dal DeNotaris. Ann. del Ist. Bot. di Roma, iii. t. xix. (1888). (Sep. pp. 15.)

596—Nuova specie di *Lejeunea* scoperta dal Dott. C. Rossetti in Toscana. Nuovo Giorn. Bot. Ital. xxi. 485-487 (1889).

597—Illustrazione di una nuova varietà di *Frullania dilatata* (L.) Dmrt. Nuovo Giorn. Bot. Ital. xxi. 518-521 (1889).

598—Nuova abitazione della *Lejeunea Rossettiana* Mass. Nuovo Giorn. Bot. Ital. xxii. 295-296 (1890).

599—Di due Epatiche da aggiungersi alla Flora Italica. Nuovo Giorn. Bot. Ital. xxii. 549-550 (1890).

**Massalongo, C. et Carestia, A.**

600—Epatiche delle Alpi Pennine. Nuovo Giorn. Bot. Ital. xii. 306–366, t. viii.–xi. (1880).

601—Epatiche delle Alpi Pennine ulteriori osservazioni ed aggiunte. Nuovo Giorn. Bot. Ital. xiv. 212–258, t. x.–xiv. (1882).

602—Trois espèces d'Hépatiques nouvelles pour la région des Alpes Pennines. Rev. Bryol. x. 102–103 (1883).

**Matthieu, C.**

603—Flore générale de la Belgique, contenant la description de toutes les plantes qui croissent dans ce pays. 2 vols. 8vo. Bruxelles (1853).

**Mattirolo, Oreste.**

604—Contribuzione alla biologia delle Epatiche. Movimenti igroscopici nel tallo delle Epatiche Marchantieæ. Malpighia, II. 181–223, 2 tav. (1888).

605—Contribution à la biologie des Hépatiques. Mouvements hygroskopiques dans la Thallus des Hépatiques Marchantiées. Archiv. Ital. de Biol. xi. fasc. III. (1889).

**McAndrew, J.**

606—*Radula voluta* Tayl. in Scotland. Jour. of Bot. xxvii. 51 (1889).

**McArdle, David.**

607—Notes on some new or rare Irish Hepaticæ. Proc. Roy. Dublin Soc. iii. 17–21, Pl. V., VI. (1881).

608—Hepaticæ of Wicklow. Jour. of Bot. xxvii. 11, 12 (1889).

609—Hepaticæ of Loughbray, County Wicklow. Jour. of Bot. xxviii. 356–361 (1890).

**McIvor, William Graham.**

610—Hepaticæ Britannicæ, or Pocket Herbarium of British Hepaticæ. Small 8vo. New Brentford (1847).

(Collection of 136 species, the specimens mostly small.)

**Meissner.**

611—Hepaticæ Javanicæ a Zollingero collectæ. Bot. Zeit. vi. 462, 463 (1848).

**Merrett, Chr.**

612—*Pinax rerum naturalium britannicarum.* (1667).

(Mentions one hepatic, identified by Lindberg as *Anthoceros punctatus.*)

**Meyen, Franz Julius Ferdinand.** Tilsit, Germany, 28 June 1804.

† Berlin, 2 Sept. 1840.

613—Neues System der Pflanzenphysiologie. 3 vol. 8vo. Berlin (1837-9).

(General account of the Hepaticæ; first figure of antherozoids—those of *Aneura pinguis*, iii. t. xii. f. 39, 40.)

**Michaux, Andre.** Versailles, France, 7 March 1746. † Madagascar, 13 Nov. 1802.

614—*Flora Boreali Americanæ*. 2 vol. 8vo. Paris (1803).

(Describes 13 Hepaticæ, vol. ii., pp. 276-280.)

**Mitcheli, Pier' Antonio.** Florence, Italy, 11 Dec. 1679. † Florence, 1 Jan. 1737.

615—*Nova plantarum genera*. 4to., pp. 234, 108 tab., Florence (1729).

(Contains figures and descriptions of about 50 Hepaticæ; establishes the genera *Targionia*, *Sphærocarpus*, *Lunularia*, *Marsilia* [*Pellia Raddi*], *Anthoceros*, *Blasia* and *Riccia*.)

**Micheletti, L.**

616—*Elenco di Muscinee raccolte in Toscana*. *Nuovo Giorn. Bot. Ital.* xxiii. 561-575 (1891).

(List of 19 Hepaticæ.)

**Milde, Julius.** Breslau, Germany, 2 Nov. 1824. † Meran, 3 July 1871.

617—*Zur Kenntniss von Anthoceros und Blasia*. *Bot. Zeitung*, ix. 629, 630 (1851).

618—*Chamæceros fertilis* Milde, ein neues Genus aus der Familien der Anthoceroteen. *Bot. Zeitung*, xiv. 767 (1856).

619—*Chamæceros fertilis* Milde, novum Genus e Familia Anthocero-teum. *Nova Acta Acad. Cæs. Leop.* xxvi. 167-174, t. XII. (1857).

620—*Rechtfertigung des Genus Chamæceros gegen Herrn Professor Lehmann*. *Bot. Zeitung*, xv. 199-201 (1857).

621—*Ueber das Genus Notothylas* Sulliv. *Bot. Zeitung*, xvii. 33-40, 41-47, 49-55, Pl. II. (1859).

622—*Ueber eine neue Jungermannia* (J. Mildeana). *Jahresb. Schles. Gesellsch.* xlv. 103 (1867).

**Millspaugh, Charles Frederic.** Ithaca, N. Y., 20 June 1854.

623—*Flora of West Virginia*. *Bull. No. 24, West Va. Agric. Exper. Sta.* II. 313-538 (1892).

(Includes list of 28 Hepaticæ, pp. 495-498, with description and plate of *Plagiochila Virginica*, Evans, n. sp.)

**Mirbel, Charles Francois.** Paris, France, 27 March 1776. † Champerret, 12 Sept. 1854.



624—Recherches anatomiques et physiologiques sur le *Marchantia polymorpha*, pour servir à l'histoire du tissu cellulaire, de l'épiderme et des stomates. *Mus. Hist. Nat. Nouv. Mem.* i. 93–130 (1832); *Ann. Sci. Nat.* xxv. 73–87 (1832); *Mem. Acad. Sci.* xiii. 337–373 (1835).

624a—Complément des observations sur le *Marchantia polymorpha*, suivi de recherches sur les métamorphoses des utricules et sur l'origin, les développements et la structure de l'anthère et du pollen des végétaux phanérogames. *Guillemin, Arch. Bot.* i. 97–124 (1833); *Mem. Acad. Sci.* xiii. 375–436 (1835).

624b—Rapport sur un mémoire de M. Montagne concernant les organes mâles du genre *Targionia*. *Comptes Rendus*, vii. 113, 117 (1838).

**Mitten**, William. Hurstpierpoint (Sussex), England, 30 Nov. 1819.

See also *Hart, H. C., Hemsley, W. B.*

625—A List of all the Mosses and Hepaticæ hitherto observed in Sussex. *Ann. Nat. Hist.* viii. 305–324, 362–370 (1851).

626—Catalogue of Cryptogamic Plants collected by Wm. Jameson in the vicinity of Quito. *Lond. Jour. Bot.* iii. 49–57, 351–361, (Hepaticæ, 357–361) (1851).

627—Hepaticæ of Isthmus of Pamama, in *Seeman: Voyage of H. M. S. Herald*, 1845–51, 245–246. London, 1852–7.

628—Hepaticæ, in *Flora Novae Zelandiae: Botany of Antarctic Voyage of H. M. Discovery ships Erebus and Terror in the years 1839–1843*, ii. 125–172 (1855).

629—A List of the Musci and Hepaticæ collected in Victoria, Australia, by Dr. F. Müller. *Jour. of Bot.* viii. 265–266 (1856).

630—A List of Hepaticæ collected by the Rev. Charles Parish at Moulmein. *Jour. of Bot.* viii. 353–357 (1856).

631—Hepaticæ, in *Flora Tasmaniæ: Botany of Antarctic Voyage of H. M. Discovery ships Erebus and Terror in the years 1839–1843*, ii. 221–241 (1860).

632—Musci et Hepaticæ Vitienses. *Bonplandia*, ix. 365–367 (1861); x. 19 (1862).

633—Hepaticæ Indiæ Orientalis. *Jour. Linn. Soc.* v. 89–128 (1861).

634—On some new species of Musci and Hepaticæ in the Herbarium of Sir W. J. Hooker, collected in Tropical Africa chiefly by the late Dr. Vogel and Mr. Barter (1860). *Linn. Soc. Trans.* xxiii. 51–58 (1862).

635—On the Musci and Hepaticæ from the Cameroons Mountains and from the River Niger. *Jour. Linn. Soc.* vii. 147–169 (1863).

636—A new Genus of Hepaticæ. *Jour. Linn. Soc.* vii. 243–244 (1864).

637—Contributions to the Flora of the Atlantic Islands. Jour. Linn. Soc. viii. 1-10 (1865).

638—The Bryologia of the Survey of the 49th Parallel of Latitude. Jour. Linn. Soc. viii. 12-55 (1865).

639—On some species of Musci and Hepaticæ additional to the Floras of Japan and the Coast of China. Jour. Linn. Soc. viii. 148-158 (1865).  
(Describes *Solenostoma radiculosum* and *Chiloscyphus planus* new.)

640—Hepaticæ, in *Seeman: Flora Vitiensis*, 404-419 (1865-1873).

641—Hepaticæ, in *Godman: Natural History of the Azores*, 316-328 (1870).

(Includes 68 species with descriptions of *Chiloscyphus denticulatus* n. sp. 320, *Nowellia* n. g. 321, *Exormotheca* n. g. 325, with *E. pustulosa* n. sp. 326, the last from Madiera.)

642—The Musci and Hepaticæ collected by H. N. Moseley, M. A., Naturalist to H. M. S. "Challenger." Jour. Linn. Soc. xv. 59-73 (1877).

643—A list of the Musci and Hepaticæ collected in Kerguelen's Island by the Rev. A. E. Eaton, A. M. Jour. Linn. Soc. xv. 193-197 (1877).

644—List of Hepaticæ collected by the Rev. A. E. Eaton at the Cape of Good Hope (August and September, 1874). Jour. Linn. Soc. xvi. 187-196 (1878).

645—Hepaticæ, in *Botany of Kerguelen Island: Transit of Venus Expedition* (1874), 32-37.

646—The Collections from Rodriguez.—Hepaticæ. Phil. Trans. London, clxviii. 396-401. 3 tab. (1879).

647—Enumeration of the Plants hitherto collected in Kerguelen Island by the "Antarctic," "Challenger," and "British Transit of Venus" Expeditions. III. Hepaticæ. Phil. Trans. London, clxviii. 40-45 (1879).

648—Some new species of the Genus *Metzgeria*. Jour. Linn. Soc. xxii. 241-243 (1887).

649—The Mosses and Hepaticæ collected in Central Africa by the Right Rev. James Hannington, Bishop of Mombesa, F. L. S., F. G. S., etc., with some others, including those gathered by Mr. H. H. Johnston on Kilimanjaro. Jour. Linn. Soc. xxii. 298-328, Pl. XV.-XIX. (1887).

650—Musci of Roraina Expedition of 1884. Trans. Linn. Soc. ii. 296, 297 (1887).

651—An Enumeration of all species of Musci and Hepaticæ recorded from Japan. Trans. Linn. Soc., 2d ser., iii. 153-206, t. LVIII. (1891).

652—Hepaticæ, in Hemsley : Report on the Botany of Juan Fernandez, the S. E. Moluccas and the Admiralty Is. Challenger Exped., Bot. i. 84–89, 213, 262, 263 (1885).

653—An Enumeration of the Musci and Hepaticæ collected in Portugal, 1842–50, by Dr. Fried. Welwitsch, with brief notes and observations. ———— 13–24 ( ).

(Includes 29 Hepaticæ. Separate only seen.)

654—Hepaticæ, in *Melliss* : St. Helena. (Not seen.)

**Mohl**, Hugo von. Stuttgart, Germany, 8 April 1805. † Tübingen, 1 April 1872.

655—Einige Bemerkungen über die Entwicklung und den Bau der Sporen der cryptogamischen Gewächse, *Flora*, xvi. 33–46, 49–63, 65–78 (1833).

656—Ueber die Entwicklung der Sporen von *Anthoceros lævis*. *Linnæa*, xiii. 273–290, t. V (1839).

637—Ueber den Bau des Chlorophylls. *Bot. Zeitung*, xiii, 105–107 (1855).

(Includes notes on *Anthoceros lævis*.)

**Mohr**, Daniel Matthias Heinrich. † Kiel, 26 Aug. 1808. See *Weber, F.*

**Montagne**, Jean François Camille. Vaudoy (Seine et Marne), France, 15 Feb. 1784. † Paris, 5 Jan. 1866. See also *Bory de St. Vincent, J. B. M., Nees von Esenbeck, C. G.*

658—Enumeration des Mousses et des Hépatiques réunies par M. Leprieur dans la Guiane centrale, et description de plusieurs nouvelles espèces de ces deux familles. *Ann. des Sc. Nat.*, 2d ser., iii. 193–219, t. iii. iv. (1835).

659—Notice sur les plantes cryptogames récemment découvertes en France, contenant aussi l'indication de quelque espèces les plus rare de la Flore Française. Hépatiques. *Archives de Bot. de Guillemin*, i. 224 (1833).

660—Des organes mâles du Genre *Targionia*, découvert sur une espèce nouvelle du Chili. *Comptes Rendus*, vi. 197, 198; vii. 113–117 (1838); *Ann. des Sc. Nat.*, 2d ser., ix. 100–114 (1838).

661—Hepaticæ, in *Première Centurie de Plantes cellulaires exotiques ou indigènes nouvelles*. *Ann. des Sc. Nat.*, 2d ser., ix. 38–49 (1838).

662—Cryptogames algériennes, ou plantes cellulaires réunies par M. Roussel, pharmacien en chef de l'armée d'Afrique, aux environs d'Alger. *Ann. des Sc. Nat.*, 2d ser., x. 68–279, 334–345, 2 Pl. (1838).

663—Hepaticæ, in *Cryptogamæ Brasiliensis seu Plantæ cellulares*

quas in itinere per Brasiliam a celeb. Auguste Sainte Hiliare collectas recensuit observationibusque nonnullis illustravit. Ann. des Sc. Nat., 2d ser., xii. 42-51, t. i. (1839).

664—Sertum Patagonicum. Cryptogames de la Patagonie. 4to. pp. 19, 7 tab col., Paris (1839).

(Forming a portion of D'Orbigny's *Voyage dans l'Amerique Meridionale.*)

665—Florula Boliviensis. Cryptogames de la Bolivia, réunies par Alcide D'Orbigny. 4to, pp. 120, 10 tab., Paris (1839).

666—Plantes cellulaires de l'histoire naturelle des îles Canaries. 4to, pp. 208, 9 tab., Paris (1840).

(Forming Part IV. of the work by Webb and Berthollet.)

667—Hepaticæ, in Seconde Centurie de Plantes cellulaires exotiques ou indigènes nouvelles. Ann. des Sc. Nat., 2d ser., xiv. 332-337 (1840); xvi. 110-112, 126-128 (1842).

668—Hepaticæ, in Cryptogamæ Nilgherienses seu Plantarum cellularium in montibus peninsulæ Indicæ Neelgherries dictis, a cl. Perrottet collectarum enumeratio. Ann. des Sc. Nat., 2d ser., xvii. 12-21 (1842).

669—Hepaticæ, in Quatrième Centurie de Plantes cellulaires exotiques ou indigènes nouvelles. Ann. des Sc. Nat., 2d ser., xix. 243-266 (1843).

670—Plantes Cellulaires du Voyage au Pôl Sud et dans l'Océanie sur les corvettes l'Astrolabe et la Zélee sous le commandement de M. Dumont d'Urville, 1837-40. 8vo. pp. xiv. 349, 20 tab., Paris (1845).

671—Hepaticæ, in *D. Ramon de la Sagra*: Historia física, política y natural de la Isla de Cuba. Vol. IX (Bot. Criptog.), 4to. pp. 328, 20 tab. col., Paris (1845).

672—Essai d'Organographie de la Famille des Hépatiques. Extrait du Dict. Univ. d'histoire naturelle. 8vo. pp. 15, Paris (1845).

673—Hepaticæ, in Cinquième Centurie de Plantes cellulaires exotiques ou indigènes nouvelles. Ann. des Sc. Nat., 3d ser., iv. 346-355 (1845).

674—Plantæ cellares quas in insulis Philippinensibus a cl. Cuming collectas recensuit observationibus nonnullis descriptionibusque illustravit. Lond, Jour. Bot. iv. 3-11 (1845).

(Includes 8 Hepaticæ.)

675—Hepaticæ, in Voyage autour du Monde exécuté pendant les années 1836 et 1837 sur la corvette la Bonité, commandée par M. Vaillant. 8vo. avec Atlas folio, Paris (1844-1846).

676—Hepaticæ, in Sixième Centurie de Plantes cellulaires exotiques ou indigènes nouvelles. Ann. des Sc. Nat., 3d ser., x. 111-117 (1848).

677—Hepaticæ, in Septième Centurie de Plantes cellulaires exotiques ou indigènes nouvelles. Ann. des Sc. Nat., 3d ser., xi. 34-35 (1849).

678—Note sur le genre *Riella* et description d'une espèce nouvelle. *Ann. des Sc. Nat.*, 3d ser., xviii. 11–13 (1852).

679—Hepaticæ, in *Gay*: *Historia fisica y politica de Chile*. vii. 205–327 (1852).

(Includes descriptions of 117 Hepaticæ.)

680—Hepaticæ, in *Cryptogamia Guyanensis, seu Plantarum cellularum in Guyana Gallica annis 1835–1849 a cl. Leprieur collectarum enumeratio universalis*. *Ann. des Sc. Nat.*, 4th ser., iii. 311–321 (1855).

681—Note sur le *Boschia*, nouveau genre de la famille des Hépatiques. *Bull. de la Soc. Bot. de France*, iii. 572–576 (1856).

682—Sylloge generum specierumque Cryptogamarum quas in variis operibus descriptas iconibusque illustratas, nunc ad diagnosim reductas, nonnullasque novas interjectas, ordine systematico disposuit. 8vo. pp. 498, Paris (1856).

(Includes descriptions of 158 Hepaticæ, pp. 52–95.)

683—Hepaticæ (*Plantæ Weddellianæ*), in *Septième Centurie Plantes cellulaires exotiques ou indigènes nouvelles*. *Ann. des Sc. Nat.*, 4th ser., v. 348–352 (1856).

684—Hepaticæ, in *Huitième Centurie Plantes cellulaires exotiques ou indigènes nouvelles*. *Ann. des Sc. Nat.*, 4th ser., vi. 186–199 (1856); vii. 149, 150 (1857).

**Moore**, David. Dundee, Scotland, 23 April 1808. † Dublin, Ireland, 9 June 1879.

685—Ordnance Survey Collections of Counties of Derry and Antrim. Vol. I. Mosses and Hepaticæ exsiccatae (1834–8).

686—Addenda to the Musci and Hepaticæ of the Flora Hibernica, with some new habitats for Irish Hepaticæ. *Proc. Dublin Nat. Hist. Soc.* v. 89 (1866).

687—Contributions to the British and Irish Musci and Hepaticæ. *Proc. Dublin Univ. Zool. and Bot. Assoc.* ii. 80– (1863).

688—*Anthoceros lævis* in Ireland. *Jour. of Bot.* xi. 274 (1873).

689—Illustrations of the Reproductive Apparatus in Marchantieæ. *Quar. Jour. Micros. Science*, 215, 216 (1874).

690—Report on Irish Hepaticæ. *Proc. Roy. Irish Acad.*, 2d ser., ii. 591–672, 2 Pl. (1876).

(Describes 143 Hepaticæ.)

**Morgan**, Andrew Price. Centreville, Ohio, 27 Oct. 1836.

691—Flora of the Miami Valley. 16mo. pp. 68, Dayton, Ohio (1878).

(Includes list of Hepaticæ.)

**Moris**, Giuseppe Giacinto. Arbassano, Italy, 25 April 1796. † Turin, 18 May 1869.

**Moris**, G. G. et **DeNotaris**, G.

692—Flora Caprariæ, sive enumeratio plantarum in Insula Capraria. Mem. della Reale Accad. di Torino, ser. ii. 59–303, 6 tab. (1839). [Sep. pp. 244.]

(Includes the Hepaticæ, pp. 175–180; *Jung. fragrans*, n. sp. 177, t. iv.)

**Mottier**, David Myers. Patriot, Indiana, 4 Sept. 1864.

693—Notes on the apical growth of Liverworts. Bot. Gazette, xvi. 141–143, pl. XIII. (1891).

**Mougeot**, Jean Baptisté. Bruyeres, France, 25 Sept. 1776. † Bruyeres, 5 Dec. 1858.

**Mougeot**, J. B., **Nestler**, C. G. et **Schimper**, W. P.

694—Stirpes Cryptogamæ Vogeso-Rhenanæ. (15 Fasciculi mit 1500 getrockneten species.) Voges (1810–1856).

(Contains numerous species of Hepaticæ.)

**Müller**, Ferdinand, Baron von.

695—On some plants from Norfolk Island. Jour. of Bot. xxiii. 353, 354 (1885).

(List of 6 Hepaticæ.)

**Müller**, W. O.

695a—Cryptogamen-Herbarium der Thuring. Staaten. 5 Theils. pp. 49 (277 getrockneten Species). Gera (1869).

(Contains several Hepaticæ among other cryptogams.)

**Murray**, George. See *Bennett, A. W.*

**Nägeli**, Carl Wilhelm von. Kilchberg bei Zurich, Switzerland, 27 March 1817. † Munich, Germany, 10 May 1891.

696—Botanische Beiträge: 2. Entwicklung der Hautdrüsenzellen und Spaltöffnungen bei *Marchantia polymorpha*. 3. Wurzelhaare von *Marchantia polymorpha*. Linnæa, xvi. 237–285 (1842).

697—Wachthumsgeschichte der Laub- und Lebermoose. (1. Wachstum der Laubachsen bei *Echinomitrium*. [Metzgeria] 138–150, t. ii. fig. 1–14. 2. Wachstum des Brutkeimblattes von *Lunularia*, 150–158, t. iii. fig. 1–23. 3. Brutkeimblatt an *Jungermania*? 158–164, t. iii. fig. 24–35. 4. Brutkörner bei *Jungermania exsecta*. 164–166, t. iii. fig. 36–40.) Zeit. für wissensch. Botanik. 138–166, t. ii., iii. (1845).

**Necker**, Noel Joseph de. Lille (Nord), France, 1729. † Mannheim, Germany, 10 Dec. 1793.

698—Methodus Muscorum per classes, ordines, genera et species, cum synonymis etc. 8vo. pp. xvii. 296, 1 tab. Mannheim (1771).

699—*Elementa Botanica*. 3 vol. 8vo. Neowedæ (1791).  
(Establishes several genera of *Hepaticæ*, iii. 339-353.)

**Nees von Esenbeck**, Christian Gottfried. Auf der Reichenberge bei Erbach, Germany, 14 Feb. 1776. † Breslau, 16 March 1858. See also *Bischoff*, G. W., *Gottsche*, C. M., *Reinwardt*, K. G. K., *Martius*, K. F. P.

700—*Duvalia*, novum genus ex ordine *Hepaticarum* cum *Hepaticis* elateratis comparatum. *Mag. der nat. Freund. zu Berlin*, viii. 269-272. (1818).

701—[Description of *Fimbriaria*.] *Hor. Phys. Berol.* ———, 44, (1820).

701a—*Hepaticæ*, in *Lindley*: Introduction to the Natural System of Botany. Edition II. 8vo. pp. xv. 580, London (1835).

702—*Enumeratio plantarum cryptogamicarum Javæ et insularum adjacentium*, quas a Blumio et Reinwardtio collectas describi edique curavit. Fasc. I. *Hepaticas* complectens. 8vo. pp. viii. 86, Vratislaviæ (1830).

703—*Berichtigungen zur Enumeratio plantarum cryptogamicarum Javæ*. *Linnæa*, vi. 602-623 (1831).

704—*Naturgeschichte der europäischen Lebermoose*. 4 vol. sm. 8vo. Berlin and Breslau (1833-38).

**Nees von Esenbeck**, C. G. et **Bischoff**, G. W.

705—*Lunularia alpina* und *Corsinia lamellosa*, zwei neue europäische Lebermoose. *Flora*, xiii. 393-404 (1830).

**Nees von Esenbeck**, C. G., et **Montagne**, C.

706—*Jungermanniarum Herbarii Montagneani species*. *Ann. des Sc. Nat.*, 2d ser., v. 52-72, t. I., II. (1836).

**Nestler**, C. G. See *Mougeot*, J. B.

**Nicotra**, L.

707—Cenno intorno ad alcune Epatiche di Messina. *Nuovo Giorn. Bot. Ital.* xviii. 75-77 (1886).

**Nordenström**, H. och **Nyman**, E.

708—*Växtgeografiska bidrag till Östergötlands Mossflora*. *Bot. Notiser*, 16-20 (1889).

(Notes on stations for *Hepaticæ*.)

**Norrlin**, J. P.

709—Ofversigt af Torneå (Muonio) och angränsande delar af Kemi Lappmarkers Mossor och Lefvermossor. *Notis. ur Sällsk. pro Fauna et Flora Fenn. Forhandl.* xiii. (1871-4).

(List of 50 *Hepaticæ*.)

**Oakes**, William. Danvers, Mass., 1 July 1799. † Ipswich, Mass., 31 July 1848.

710—Notice of some of the Mosses of New England. Hovey's Mag. Hort. xiii. 171–174 (1847).

**Oeder**, George Christian. Anspach, Germany, 3 Feb. 1728. † Oldenberg, 28 Jan. 1791.

711—Icones Plantarum in regnis Daniæ et Norvegiæ in ducatibus Slesvici et Holsaticæ, et in comitatibus Oldenburgi et Delmenhorstiæ ad illustrandum opus dei isdem plantis regio jussu exarandum, Floræ Danicæ inscriptum. Folio, 2880 tab. et textus, Copenhagen (1761–1871).

(Includes many plates of the Hepaticæ: the work of Oeder continued after his death by others; some of the later text to the Hepaticæ contributed by Gottsche.)

### Orten.

711a—Keimung der Lebermoossporen. Sitzb. der wissensch. Akad. (Wien), (1876).

### Pabst, G.

712—Cryptogamen—Flora, III Band: Die Moose. I Abtheilung: Lebermoose. Folio, pp. 36, 8 Taf., Gera (1877).

**Palisot de Beauvois**, Ambroise Marie Francois Joseph. Arras, France, 28 Oct. 1755. † Paris, 21 Jan. 1820.

713—Flora d'Oware et de Benin en Afrique. 2 vol. folio, Paris (1804–1807).

**Pancic**, Josef. Bribir, Croatia, 6 May 1814. † Belgrade, 8 March 1888.

714—Zur Moosflora des Nordostlichen Banates. Verhandl. der zool.-bot. Verein (Wien), xi. 93–96 (1861).

### Payot, Venance.

715—Catalogue des Hépatiques du Mont Blanc et des Alpes Pennines. Rev. Bryol. xv. 17–24 (1888).

716—Florule du Mont Blanc. 3 me Partie. Les Muscinées des Alpes Pennines. 12mo. pp. 100.

**Pearson**, William Henry. Pendleton, England, 22 July 1849. See also *Carrington, B.*

717—Yorkshire Hepaticæ. Naturalist, i. (1876.)

718—*Lejeunea ovata* Tayl. in North Wales. Jour. of Bot. xv. 307 (1877).

719—New British Riccias. Jour. of Bot. xv. 350 (1877).

720—Discovery of *Harpanthus Flotovianus* in Scotland. Trans. Bot. Soc. Edinb. xiii. 443–447, Pl. XV. (1879).

721—*Cesia obtusa* Lindb. Jour. of Bot. xviii. 276 (1880).



- 722—On *Gymnomitrum obtusum*. Jour. of Bot. xviii. 337-340 (1880).
- 723—A new British *Jungermania* (*Jung. socia* N.). Jour. of Bot. xviii. 375 (1880).
- 724—*Jungermania Juratzkana* Limpr. in Britain. Jour. of Bot. xix. 116 (1881).
- 725—On *Radula Carringtonii* Jack. Jour. of Bot. xx. 141, 142 (1882).
- 726—On *Radula germana* Jack. Jour. of Bot. xi. 227-230 (1882).
- 727—*Cephalozia Turneri* Hook. in North Wales. Jour. of Bot. xxi. 110 (1883).
- 728—*Marsupella sparsifolia* Lindb. Jour. of Bot. xxii. 225-227, t. CCXLVIII. (1884).
- 729—New British *Hepaticæ*. Jour. of Bot. xxii. 249 (1884).
- 730—*Hepaticæ Natalenses a clarissima domina Helena Bertelsen missæ*. Christiania Vid.-Selsk. Forhandl., No. 3, 1-20, Pl. I.-XII. (1886).
- 731—*Hepaticæ Knysnanæ sive Hepaticarum in regione Capensi "Knysna" Africæ Australis a fabro ferrario Hans Iverson lectarum*. Christiania Vid.-Selsk. Forhandl., No. 9, 1-16, Pl. I.-VI. (1887).
- 732—*Blepharostoma palmatum* Lindb. Jour. of Bot. xxv. 193-195, t. CCLXXV. (1887).
- 733—*Lophocollea spicata* Tayl. in North Wales. Jour. of Bot. xxvii. 271 (1889).
- 734—A new British *Hepatic*. Jour. of Bot. xxvii. 353-354, t. CCXCII. (1889).
- 735—*Scapania planifolia* Hook. Jour. of Bot. xxviii. 219 (1890).
- 736—The *Lejeunæ* of Lindenberg's Herbarium. Jour. of Bot. xxviii. 377-379 (1890). (Sep. 3 pp.)
- 737—Review of Dr. Spruce's "*Hepaticæ Bolivianæ*." Jour. of Bot. xxviii. 252 (1890).
- 738—List of Canadian *Hepaticæ*. 8vo. pp. 31, Pl. I.-XII. Montreal, 1890.
- 739—*Frullaniæ Madagascarienses precipue e collectionibus Borgeni*. Christiania Vid.-Selsk. Forhandl. No. 2, 1-9, Pl. I.-IV. (1891).
- 740—*Lejeunæ Madagascarienses*. Christiania Vid.-Selsk. Forhandl. No. 8, 1-9, 2 Pl. (1892).
- (List of 33 species; *Lopho-lejeunea lepidoscypha* n. sp.)
- 741—A New British *Hepatic*. Jour. of Bot. xxx. 257, Pl. 327 (1892). (Description and figure of *Marsupella (Cesia) conferta*.)
- 741a—A new British *Hepatic*. Jour. of Bot. xxx. 353, Pl. 329 (1892). (Description and figure of *Scapania aspera*.)

**Peck, Charles Horton.** Sandlake, New York, 30 Mar. 1833.

742—Plants of the Summit of Mt. Marcy. 7th Rep. Adirondack Survey, 401-412 [Sep. 8vo. pp. 12, Albany (1880).]

(List of 10 Hepaticæ.)

743—Reports of State Botanist, in Annual Reports of the Regents of the University of the State of New York, (1869-90).

(28th Rep. for 1868 contains list of 23 species; 15th Report for 1871 mentions one species; 27th Rep. for 1873 mentions 5 species; and the 41st Rep. for 1890 mentions 2 species of Hepaticæ.)

**Personne, J.**

744—Note sur l'existence de l'iode dans certaines plantes d'eau douce. Comptes Rendus, xxx. 478 (1850).

(Notes presence of Iodine in *Aneura pinguis*.)

**Petiver, James.** † London, England, 20 April 1715.

745—Musei Petiveriani, etc. 8vo. pp. 93, London (1692-1703).

(Contains notes on two species of Hepaticæ, identified by Lindberg as *Riccia canaliculata* and *R. natans*.)

**Petounikow, Alexis.**

746—Sur les organes reproducteurs du Sphærocarpus. Bull. de la Soc. Bot. de France, xiv. 137-142, Pl. 3 (1867).

**Pfeffer, W.**

747—Die Oelkorper des Lebermoose. Flora, lvii. 2-6, 17-27, 33-43, Taf. i. (1874).

**Pfeiffer, Ludwig.** Kassel, Germany, 4 July 1805.

748—Flora von Niederhessen und Munden. 2 vol. 8vo. Kassel (1847-55).

**Philibert.**

749—Sur quelques Hépatiques observées à Cannes. Rev. Bryol. ix. 29-54 (1882); x. 1-5 (1883).

750—Sur la fructification du Marsupella revoluta Dumortier. Rev. Bryol. xvii. 33, 34 (1890).

**Pichi, P. e Bottini, A.**

750—Prime Muscinee dell' Appen Casentinese. Nuovo Giorn. Bot. Ital. xx. 321-329 (1888).

(List of 12 Hepaticæ.)

**Plukenet, Leonard.** ———, 1642. † London, England, 1706.

751—Almagestum botanicum, etc. 4to, pp. 402, London (1696).

(Mentions one hepatic, identified by Lindberg as *Pellia epiphylla*.)

752—Amaltheum botanicum, etc. 4to. pp. 214, t. 351-454, London (1705).

(Mentions one hepatic, identified by Lindberg as *Aneura pinguis*.)

**Pokorny, Alois.** Iglau, Austria, 22 May 1826.

753—Notiz über *Riccia crystallina* und *Equisetum*— Keimlinge, die nach hohem Wasser auf abgeschlagertem Schlamme hervorgekommen sind. Verhandl. des zool.-bot. Vereins (Wien), i. 55, 56 (1852).

754—Ueber die Verbreitung und Vertheilung der Lebermoose von Unter-Oesterreich. Sitzungsab. der kais. Akad. der Wissensch. (Wien), L. 186–200 (1852).

(List of 71 *Hepaticæ*.)

755—Vorarbeiten zur Kryptogamen flora von Unter-Oesterreich. I. Revision der Literatur. Nebst einer systematischen Aufzählung sämtlicher in der vorhandener literatur angeführten Cryptogamen aus Unter-Oesterreich. Verhandl. des zool.-bot. Vereins (Wien), iv. 35–168 (1854).

**Polakowsky, H.**

756—Bryophytas et Cormophytas Costaricensis anno 1875 lectas enumerat. Jour. of Bot. xxv. 225–231 (1887).

(Three new species of *Hepaticæ* described by Gottsche.)

**Power, Thomas.**

757—Contributions toward the Fauna and Flora of Cork. Part II. Botany. 8vo. pp. 130, London (1845).

(List of 50 species of Irish *Hepaticæ*.)

**Prescher, R.**

758—Die Schleimorgane der Marchantieen. Sitzungsab. der kais. Akad. der Wissensch. (Wien), lxxxvi. 132–158 (1882).

**Preuschoff-Tannsee.**

759—Beitrage zur Flora der Provinz Westpreussen. Jahresb. des westpreuss. bot.-zool. Vereins, v. 69–74 (1882).

**Prien.**

760—Verzeichniss der im oberpfälzischen Theile des bayerischen Waldes um Falkenau und Nittenau beobachteten Lebermoose. Bericht des bot. Vereins in Landshut (1874–75–76).

(List of 51 *Hepaticæ*.)

**Prost, T. C.**

761—Liste des Mousses, Hépatiques et Lichens du departement de la Lozere. 8vo. pp. 80, Mende (1828).

**Quelet, L.**

762—Catalogue des Mousses, Sphaignes et Hépatiques des environs de Montbélard. 8vo. pp. 332 (1869).

**Rabenhorst, Ludwig.** Treuenbrietzen, Germany, 22 March 1806.

† Meissen, 24 April 1881. See also *Gottsche, C. M.*

763—Deutschlands Kryptogamenflora oder Handbuch zur Bestimmung der Kryptogamischen Gewächse Deutschlands, der Schweiz, des Lombardisch-Venetianischen Königreichs und Istriens. II. 3, Lebermoose, Laubmoose und Farn. 8vo. pp. xvi. 352, Leipzig (1848).

(Contains descriptions of 275 Hepaticæ.)

764—Kryptogamenflora von Sachsen, der Oberlausitz, Thuringen und Nordböhmen, mit Berücksichtigung der benachbarten Länder. I. Algen, Lebermoose, Laubmoose. 8vo. pp. xx. 653, Leipzig (1863).

### Raciborski, M.

765—Przyczynek do znajowski watrobowców południowo zachodnię Polski. Ber. der physiogr. Commis. der Akad. der Wissensch. in Krakau, xxii. (1881). [Sep. pp. 6.]

(List of 59 Hepaticæ of S. E. Poland.)

766—O obecnym stanie mych badán flory kopalnej ogniotrwatych gliniek krakowskich. Ber. der physiogr. Commis. der Akad. der Wissensch. in Krakau, xxiii. 129-140 (1880).

(Account of fossil Hepaticæ of the clays of Kracow.)

Raddi, Giuseppe. Florence, Italy, 9 Feb. 1770. † Rhodos, 6 Sept. 1829.

767—Novarum vel rariorum ex cryptogamia stirpium in agro Florentino collectarum decades duæ. 4to. pp. 13, 2 tab. Bononiæ (1818).

768—Di alcune specie nuove di rettili e piante brasiliane. Mem. Soc. Ital. Sci. di Modena, xviii. 313-349 (1819).

769—Jungermanniographia Etrusca. Mem. di Matem. e di Fisica della Soc. Ital. delle Sci. (Modena), xviii. 14-56, 7 tab. (1820).

(Contains several genera formed from the genus Jungermania; the work was reprinted at Bonn 1841.)

770—Crittogame Brasiliane. Mem. Soc. Ital. Sci. di Modena, xix. 27-57 (1823).

(Contains 27 Hepaticæ.)

771—Supplemento alla Memoria di G. Raddi: Crittogame Brasiliane, inserta nel precedente (XIX.) volume, e tavole per servire di corredo alla medesima. Mem. Soc. Ital. di Modena, xx. 43-54, 6 tav. (1829).

### Ratray, John.

772—Observations on the oil bodies of the Jungermanicæ. Trans. Bot. Soc. (Edinburgh), 123-128 (1884).

Rau, Eugene Abraham. Bèthlehem, Pa., 22 July 1848.

773—List of Colorado Musci and Hepaticæ, collected by T. S. Brandegee in 1873-75. Bull. Torrey Bot. Club, vi. 89, 90 (1876).

(List of 5 Hepaticæ.)

**Ravenel**, Henry William. St. John's, S. C. 19 May 1814. † Aiken, S. C., 17 July 1887.

774—Contributions to the Cryptogamic Botany of South Carolina. Mosses and Hepaticæ. Charleston Med. Jour. iv. 428–433 (1849).

**Ray**, John. Black Notley (Essex), England, 29 Nov. 1628; † 17 Jan. 1725.

775—Synopsis methodica stirpium britannicarum, etc. 8vo. pp. 317, London (1690).

(Includes two Hepaticæ, identified by Lindberg as *Pleurozia purpurea* and *Porella platyphylla*.)

**Reader**, H. P.

776—Monmouthshire Cryptogams. Jour. of Bot. xx. 120 (1882).

(Includes 4 Hepaticæ.)

776a—The Hepaticæ of Gloucestershire. Jour. of Bot. xxiii. 331, 332 (1885).

(List of 32 Hepaticæ.)

**Reichardt**, Heinrich Wilhelm. Iglau, Austria, 16 April 1835.

† Vienna, 2 Aug. 1885.

777—Verzeichniss aller von J. Ch. Neumann in Böhmen gesammelten Pflanzen. Verhandl. des zool.–bot. Vereins (Wien), iv. 253–284 (1854).

778—Beitrag zur Moosflora des Wechsels in Niederösterreich. Verhandl. des zool.–bot. Vereins (Wien), xi. 161, 162 (1861).

779—Beitrag zur Moosflora Steiermarks. Verhandl. des zool.–bot. Vereins (Wien), xiv. 137–146 (1864).

780—Beitrag zur Kryptogamen Flora des Maltathales in Kärnthen. Verhandl. des zool.–bot. Vereins (Wien), xiv. 721–732 (1864).

781—Diagnosen der neuen Arten von Lebermoosen welche die Novara Expedition mitbrachte. Verhandl. des zool.–bot. Vereins (Wien), xviii. 957–960 (1868).

(Describes 8 Hepaticæ from Australia, New Zealand and Tahiti.)

781a—Pilze, Leber- und Laubmoose, gesammelte auf der Reise der Novara um der Erde. 4to. Vienna (1870).

782—Beiträge zur Flora der hawaischen Inseln. Sitzber. der. k. k. Akad. der Wissensch. (Wien), lxxv. 553–582 (1877).

**Reinwardt**, Kaspar George Karl. Lütteringhausen, Germany, 3 June 1773. † Leyden, Holland, 6 March 1854.

**Reinwardt**, K. G. K., **Blume**, K. L. et **Nees** ab **Esenbeck**, C. G.

783—Hepaticæ Javanicæ. Nova Acta Acad. Caes. Leop. xii. 181–238, 409–417 (1825).

**Renauld, F. et Cardot, J.**

784—Contributions a la flore des Muscinées des îles austro-africaines de l'Océan Indien. *Rev. Bryol.* xviii. 55–58 (1891).

(List of the Hepaticæ of Madagascar, etc.)

785—Musci novi vel minus cogniti descripti. II. *Bull. de la Soc. Bot. de Belgique*, xxx. 181–207 (1891). III. *Ibid.*, xxxi. 100–123 (1892).

(40 Hepaticæ described by F. Stephani; a part previously published.)

**Richard, O. J.**

786—Liste de Muscinees recueillies dans le Poitou et la Saintonge. *Bull. de la Soc. de Deux-Sevres*, (1886).

(List of 40 Hepaticæ.)

**Rimelin, P.**

787—Énumération des Mousses et des Hépatiques recueillies au Château de Grignon (Côte-d'Or). *Prologium*, i. 149–150 (1891).

(List of 7 Hepaticæ.)

**Robison, John.** Salem, Mass., 13 July 1846.

788—Flora of Essex County [Mass.]. 8vo. pp. 200, Salem (1880).

(Includes list of Hepaticæ.)

**Röll, Julius.**

789—Vorläufige Mittheilung über die von mir in Jahre 1888 in Nord Amerika gesammelten neuen Arten der Lebermoose. *Bot. Centralblatt*, xlv. 203, 204 (1891).

(Descriptions of *Porella Röllii* and *Marchantia Oregonensis* by F. Stephani.)

**Röse, A.**

790—Verzeichniss der von A. Röse bis jetzt in Thüringen resp. in thüringer Walde aufgefundenen Lebermoose. *Bot. Zeitung*. x. 96–99 (1852).

(List of 84 Hepaticæ.)

**Rossetti, Corrado.** Seravezza (Lucca), Italy, 7 Feb. 1866.

791—Appunti di Epatologia toscana. *Nuovo Giorn. Bot. Ital.* xx. 412, 413 (1888).

(List of 21 Hepaticæ.)

792—Epatiche della Toscana nord-ouest. *Nuovo Giorn. Bot. Ital.* xx. 461, 462 (1888).

(Announcement of following paper.)

793—Epatologia della Toscana nord-ouest. *Nuovo Giorn. Bot. Ital.* xxii. 305–346 (1890).

(List of 101 Hepaticæ with notes on distribution.)

**Rossetti, Corrado, e Baroni, Eugenio.**

793a—Frammenti Epatico-Lichenografeci. *Nuovo Giorn. Bot. Ital.* xxiv. 372–378 (1892).

(List of 22 Hepaticæ from Tuscany.)

**Roth**, Albrecht Wilhelm. Dötlingen (Oldenburg), Germany, 6 Jan. 1757. † Bremen, 16 Oct. 1834.

794—Tentamen Floræ Germanicæ. 3 vol. 8vo. Leipzig (1788–1800).

**Rothrock**, Joseph Trimble. McVeytown, Pa., 9 Apr. 1839.

795—Sketch of the Flora of Alaska. Rept. Smithsonian Inst. 433–463 (1867).

(Includes list of 6 Hepaticæ.)

**Roze**, Ernest. See *Bescherelle, E.*

**Ruppius**, Heinrich Bernhard. Giessen, Germany, 1688. † Jena, 7 March 1719.

796—Flora Jenensis, sive enumeratio plantarum tam sponte circa Jenam et in locis vicinis nascentium etc. 8vo, pp. 376 (1718); 2d Ed. 8vo. pp. 311, Frankfurt and Leipzig (1726).

(Includes 13 Hepaticæ; establishes the genus *Jungermania*.)

**Russ**, G. Ph.

797—Uebersicht der Gefässcryptogamen, Laub- und Lebermoose der Wetterau. 8vo. pp. 68, Hanau (1858).

**Russell**, John Lewis. Salem, Mass. 2 Dec. 1808. † Salem, 7 June 1873.

798—Attempt to ascertain some of the Hepatic Mosses of Massachusetts with Remarks. Boston Jour. Nat. Hist. iii. 465–469 (1845).

**Sadebeck**, Richard. Breslau, 20 May 1839.

799—Ueber Marchantiaceen. Verhandl. des bot. Vereins der Provinz Brandenburg (1873). [Sep. pp. 8.]

**Salwey**, T.

800—A List of certain plants to be met with in the neighborhood of Barmouth, Dolgelley and Harlech. 12mo. pp. 40 (1863).

(List of 25 Hepaticæ, pp. 27, 28.)

**Sande-Lacoste**, Cornelius Marinus van der. Dordrecht, Holland, 5 March 1815. † Amsterdam, 15 Jan. 1887. See also *Dozy, F.*

801—Bijdrage tot de Bryologie van Nederland. Van der Hoeven en de Vriese Tijdschrift, xi. 165–177 (1844).

802—(Review of known Hepaticæ of Holland.) Nederl. Kruidk. Archief, i. 447— (1848).

(List of 59 Hepaticæ.)

803—Novæ species Hepaticarum ex insula Java a Dr. F. Junghuhn detectæ. Nederl. Kruidk. Arch. iii. 415–424, 521–530 (1854). (Continued in) Batavia Nat. Tijdsch. x. 393–398 (1856).

804—Over eene studie der Javaansche Hepaticæ. Verslag Kon. Akad. v. Wetensch. (Amsterdam), iv. 202–207 (1856).

805—Synopsis Hepaticarum Javanicarum adjectis quibusdam speciebus Hepaticarum novis extra-Javanicis. Verh. der Koninkl. Akad. v. t. I.—XXII. (1856). (Sep. 112 pp.)

806—Hepaticæ Jungermaniaceæ Archipelagi Indici, adjectis quibusdam speciebus Japonicis. Ann. Musei Bot. Lugduno-Batavi, i. , (1864).

807—Nieuwe indigene Musci en Hepaticæ (1869). Nederl. Kruidk. Archief, 2d ser., i. 106–108 (1874).

808—Aanwinsten voor de Flora Bryologica van Nederland. Nederl. Kruidk. Archief, 2d ser., i. 308–311 (1874).

809—Overzicht der Lebermossoorten welke in dez Provinciën van Nederland zym waargenommen, gerangschikt van het woorden des lands naar het zuiden. (1880.)

(Includes 73 Hepaticæ.)

### Sanio, C.

810—Zahlenverhältnisse der Flora Preussens. Verhandl. der bot. Vereins der Provinz Brandenburg, 55–93 (1882).

(List of 71 Hepaticæ.)

### Saporta, Gaston, Comte de.

811—Dernieres adjuncions a la Flore fossile d'Aix-en-Provence. Ann. des Sc. Nat. ser. 7, vii. 1–104 (1888).

### Sassi, Agostino.

812—[Note on *Antrocephalus Italicus*.] Atti di Sc. Ital., 138–139 (1839).

### Satter, Hans.

813—Beiträge zur Entwicklungsgeschichte des Lebermoosantheridiums. Sitzungsab. der kais. Akad. der Wissensch. (Wien), lxxxvi. 170–183 (1882).

### Sauter, Anton Eleutherius.

814—Die Lebermoose der Nordseite der Alpen von Salzburg und Oesterreich. Rabenh. Bot. Centralblatt, i., no. 24 (1846).

815—Die Moosschätze des Unterbergs bei Salzburg. Flora, xli. 382–386 (1858).

816—Berichtigung die Moosschätze des Unterbergs bei Salzburg. Flora, xliii. 351 (1860).

817—Die Lebermoose des Herzogthums Salzburg. Flora, liv. 375–377 (1871).

Savi, Gætano. Florence, Italy, 13 June 1769. † Pisa, 28 April 1844.

818—Sinossi delle Epatiche di J. B. Lindenberg. 8vo. Pisa (1831).



**Schacht**, Hermann. Ochsenwärder, Germany, 15 July 1814. † Bonn, 20 Aug. 1864.

819—Beitrag zur Entwicklungsgeschichte der Frucht und Spore von *Anthoceros lævis*. Bot. Zeitung. viii. 457–464, 473–480, 489–496, taf. VI. (1850).

820—Ueber Antheridien der Lebermoose. Bot. Zeitung. x. 153–157 (1852).

**Schiffner**, Victor. Böhmisch Leipa, 10 Aug. 1862.

821—Observationes de quibusdam Hepaticis. Bot. Centralbl. xxvii. 207–211, 239–243, 1 Taf. (1886).

822—Beiträge zur Kenntniss der Moosflora Böhmens. I. Theil. Lotos: Jahrb. für Naturwissensch. vii. (1886). [Sep. 35 pp.]; II. Theil. Lotos: Jahrb. für Naturwissensch. x. (1890). [Sep. 36 pp.]

823—Note sur le *Riella Battandieri* Trabut. Rev. Bryol. xiv. 13, 14 (1887).

824—De *Jungermannia Hornschuchiana* Nees. Bot. Centralbl. xxx. 22–25, 1 Taf. (1887).

825—Lebermoose (Hepaticæ) gesammelt auf der Reise S. M. S. Gazelle, vorzüglich in der Magellan-Strasse, auf den Malayischen Inseln und Kerguelen-Land. 4to. pp. 48, 8 tab., Berlin, 1890.

**Schiffner**, V., und **Schmidt**, Anton.

826—Moosflora des nordlicher Böhmen. Lotos: Jahrb. für Naturwissensch. vii. (1886). (Sep. 74 pp.)

**Schiller**, K.

827—Erstes Verzeichniss der in der dresdener Haide bis Ende 1883 gefundenen Laub-, Leber- und Torfmoose. Sitz. der naturw. Gesellsch. Isis (Dresden), 1883, 112–114 (1884).

(List of 25 Hepaticæ.)

828—Seltene Moospecies aus Sachsen und Ergänzung des Moosverzeichnisses der dresdener Haide. Sitz. der naturw. Gesellsch. Isis (Dresden), 1887, 7.

(List of 37 Hepaticæ.)

**Schmidel**, Casimir Cristoph. Bayreuth, Bavaria, 21 Nov. 1718. † Anspach, 18 Dec. 1792.

829—Icones Plantarum, etc. Folio, pp. 197, 50 tab. col., Nuremberg, (1747). 2nd Ed. (Bischoff), Folio, pp. 280, 75 tab. col., Erlangen (1793–7).

830—De *Blasia*. Diss. bot. argum. 63–88. [Sep. 4to. pp. 32. 1 tab. Erlangen (1759).]

831—De *Jungermannia* characteres. Diss. bot. argum. 89–114. [Sep. 4to. pp. 29, 1 tab. Erlangen (1760).]

**Schmidt**, Anton. Böhmisch Leipa, 3 June 1842. See *Schiffner*, V.

**Schrader**, Heinrich Adolph. Alfeld bei Hildesheim, Germany, 1 Jan. 1767. † Göttingen, 21 Oct. 1836.

832—*Plantæ Cryptogamicæ novæ, rariores aut minus cognitæ*. Jour. für die Botanik, i, 66–80 (1801).

**Schrank**, Franz von Paula. Farnbach, Germany, 21 Aug. 1747. † Munich, 23 Dec. 1835.

833—*Baiersche Flora*. 2 vol. 8vo. Munich (1789).

834—*Primitiæ Floræ Salisburgensis. cum dissertatione prævia de discrimine plantarum ab animalibus*. 8vo. pp. xvi. 240, 2 tab. Frankfort (1792).

**Schreber**, Johann Christian Daniel. Weissensee, Germany, 16 Jan. 1739. † Erlangen, 10 Dec. 1810.

835—*Spicilegium Floræ Lipsicæ*. 8vo. pp. 148, Leipzig (1771).

**Schwægrichen**, Christian Friedrich. Leipzig, Germany, 16 Sept. 1775. † Leipzig, 2 May 1853.

836—*Historia Muscorum hepaticorum Prodromus*. 8vo. pp. 39, 1 tab., Leipzig (1814).

(The first general synopsis of the Hepaticæ since Linnæus; includes 128 species.)

837—*Ueber Porella pinnata L. oder Jungermannia porella Dicks., Madotheca porella Nees*. *Linnaea*, xiii. 113–117, t. xiii. (1839).

**Schweinitz**, Lewis David von. Bethlehem, Pa., 13 Feb. 1780. † Bethlehem, 8 Feb. 1834.

838—*Specimen Floræ Americanæ Septentrionalis Cryptogamicæ sistens Muscos Hepaticos huc usque in America septentrionali observatos*. 8vo. pp. 27, Raleigh (1821).

(The first systematic attempt to enumerate the Hepaticæ of the United States; describes 77 species.)

839—On two remarkable Hepatic Mosses found in North Carolina. *Jour. Acad. Nat. Sci. (Phila.)* ii. 361–370, 1 plate (1822).

(Notes *Spharocarpus terrestris* and *Carpobolus orbicularis*.)

**Scopoli**, Johann Anton. Cavalese im Fleimsthale, Tryol, 3 June 1723. † Pavia, Italy, 8 May 1788.

840—*Flora Carnolica, etc.* 2d Ed., 2 vol., 8vo., Vienna (1772).

(Contains the Hepaticæ, pp. 343–355, tab. 63.)

**Scully**, R. W.

841—Hepaticæ found in Kerry, 1889. *Jour. of Bot.* xxviii. 200–203 (1890).

**Sendtner**, Otto. Munich, Bavaria, 1814. † Erlangen, 21 April 1859.

**Sendtner, O. und Kummer, F.**

842—Enumeratio plantarum in itinere Sendtneriano in Bosnia lecta-  
um. Flora (1849).

(List of 15 Hepaticæ.)

**Simkovits, L.**

843—Budapest környékénsk Mohflorája, Magyar Növényjteni-Lapok.  
(Klausenburg), iii. 1-9 (1879).

(List of 15 Hepaticæ.)

**Sibbald, Robertus.** ——— Scotland, 1643. † 1720.

844—Scotia illustrata, sive Prodromus historiæ naturalis. Folio,  
Edinburgh (1684).

(Describes and figures one Hepatic, identified by Lindberg as *Plagiochila asplenoides*.)

**Smith, James Edward.** Norwich, England, 2 Dec. 1759. † Norwich,  
17 March 1828. See *Sowerby, J.*

**Sommerfeldt, Sören Christian.** Sukkestad, Norway, 9 April 1794.  
† Ringeboe, 28 Dec. 1838.

845—Supplementum Floræ Laponicæ, quam edidit Dr. Georgius  
Wahlenberg. 8vo. pp. xii. 331, Christiana (1826).

**Sorokin, N.**

846—Beitrag zur Kenntniss der Cryptogamenflora der Uralgend.  
Hedwigia, xvi. 40-44, 49-53 (1877).

(List of 4 Hepaticæ.)

**Sowerby, James.** London, England, 21 March 1757. † Lambeth,  
25 Oct. 1822.

847—English Botany, or colored figures of English plants, with their  
essential characters, synonyms and places of growth. To which will be  
added occasional remarks by James Edward Smith and James Sowerby.  
The figures by James Sowerby. 36 vol. 8vo. 2592 tab. col. with text.  
London (1790-1814).

(Includes figures of English Hepaticæ.)

**Sprengel, Kurt.** Boldekow, 3 Aug. 1766. † Halle, 15 March 1833.

848—Anleitung zur Kenntniss der Gewächse. III. Einleitung in das  
Studium der kryptogamischen Gewächse. 8vo. pp. 374, 10 tab. (1804).

849—Caroli Linnæi Systema Vegetabilium. (Editio XVI.). 4 vol.,  
8vo. Göttingen (1825-28).

**Spruce, Richard.** Ganthorpe, North Yorkshire, England. 10 Sept.  
1817. See also *Bescherelle, E., Underwood, L. M.*

850—A list of Mosses and Hepaticæ collected in Eskdale, York-  
shire. Phytologist, i. 540-544 (1844).

851—On the branch-bearing leaves of *Jungermania juniperina* Sw. *Phytologist*, ii. 85, 86 (1845).

852—A list of the Musci and Hepaticæ of Yorkshire. *Phytologist*, ii. 147-157 (1845).

853—The Musci and Hepaticæ of Teesdale. *Trans. Bot. Soc. Edinb.* ii. 65-89 (1846).

854—The Musci and Hepaticæ of the Pyrenees. *Ann. and Mag. Nat. Hist.*, 2d ser., iii. 81-106, 269-293, 358-380, 478-503; iv. 104-120, t. I.-III. (1849); *Trans. Bot. Soc. Edinb.* 103-216, t. I., II., XIV. (1850).

855—On *Anomoclada*, a new genus of Hepaticæ, and on its allied genera, *Odontoschisma* and *Adelanthus*. *Jour. of Bot.* xiv. 129-136, 161-170, 193-203, 230-235, t. CLXXVIII., CLXXIX. (1876). [Sep. pp. 33.]

856—Musci Præteriti sive de Muscis nonnullis adhuc neglectis, prætervisis vel confusis, nunc recognitis. *Jour. of Bot.* xix. 33-40 (1881).

857—On *Marsupella Stableri*, n. sp., and some allied species of European Hepaticæ. *Rev. Bryol.* viii. 89-104 (1881).

858—On *Cephalozia*, its sub-genera and some allied genera. 8vo. pp. 99, Malton (1882).

859—Hepaticæ of the Amazon and of the Andes of Peru and Ecuador. *Trans. Bot. Soc. Edinb.* xv. 1-590, t. i.-xxii. (1885).

860—*Lejeunea Holtii*, a new hepatic from Killarney. *Jour. of Bot.* xxv. 33-39, 72-82, t. cclxxii. (1887).

861—On a new Irish Hepatic (*Radula Holtii*). *Jour. of Bot.* xxv. 209-211 (1887).

862—Hepaticæ in provincia Rio Janeiro a Glaziou lectæ. *Rev. Bryol.* xv. 33-34 (1888).

(List only.)

863—Hepaticæ Paraguayensis, Balansa lectæ. *Rev. Bryol.* xv. 34, 35 (1888).

(List only.)

864—*Lejeunea Rossettiana* Massal. *Jour. of Bot.* xxvii. 337-338 (1889).

865—Hepaticæ Bolivianæ, in Andibus Bolivie orientalis, annis 1885-6, a cl. H. H. Rusby lectæ. *Mem. Torrey. Bot. Club*, i. 113-142 (1890).

866—Hepaticæ novæ Americanæ, tropicæ et aliæ. *Bull. Soc. Bot. de France*, xxxvi., cxxxix.-ccvi. (1889).

867—Hepaticæ Spruceanæ: Amazonicæ et Andinæ, annis 1849-1860 lectæ. Malton (1892).

(478 specimens from Dr. Spruce's extensive labors in South America.)

**Stabler, G.**

868—*Jungermannia Helleriana* Nees in Britain. *Jour. of Bot.* xx. 248 (1882).

**Steinhaus, J.**

869—Materialien zur Kryptogamenflora der Umgegend von Warschau und Oizow. *Warschauer Universitätsnachrichten*, No. 7, 8 (1887).

[Sep. pp. 42.]

(List of 49 *Hepaticæ*.)

**Stephani, Franz.** Berlin, Germany, 15 Apr. 1842. See also *Jack, J. B., Roll, J., Renauld, F. et Cardot, J.*

870—Verzeichniss der in der Umgegend von Zschopau im Erzgebirge beobachteten Leber- und Laubmoose. *Jahresb. des Annaberg-Buchholzer Ver. für Naturkunde*, iv. (1876).

871—Deutschlands Jungermannien in Abbildungen nach der Natur, nebst Text. *Bot. Verein in Landshut*, vii. 93-164, 31 taf. (1879).

872—*Riccia ciliifera* Link und *Riccia Bredleri* Jur. *Hedwigia*, xxi. 76 (1882).

873—Einige neue Lebermoose. *Hedwigia*, xxii. 49-52 (1883).

874—Zwei neue Lebermoose. *Hedwigia*, xxii. 145-148 (1883).

875—Die Gattung *Radula*. *Hedwigia*, xxiii. 113-116, 129-137, 145-159, 161-163 (1884).

876—Neue und kritische Arten der Gattung *Riccia*. *Hedwigia*, xxiv. 2-7, t. i. (1885).

877—*Gymnomitrium confertum*. *Rev. Bryol.* xii. 19-22 (1885).

878—*Hepaticarum species novæ vel minus cognitæ*. *Hedwigia*, xxiv. 89-91, t. i., ii; 166-168, t. iii., iv.; 214-218, t. i., ii.; 246-250, t. i.-iii. (1885): xxv. 5-9, t. ii.-iv.; 133, 134, t. iii.-vi.; 202-208, t. i.-iii.; 233-249, t. i. ii. (1886).

(Includes species from many regions; especially species of *Bazzania*.)

879—*Hepaticques insectivores*. *Rev. Bryol.* xiii. 97-99 (1886).

880—Di una nuovo specie di *Plagiochila*. *Ann. dell' Ist. di Roma*. ii. 86, t. VI. (1886).

881—*Hepaticæ Insula St. Thome*. *Bolet. da Soc. Broteriana*, iv. 149-156, 170-176, t. I.-III. (1887).

882—Ueber einige Lebermoose Portugals. *Hedwigia*, xxvi. t. I. (1887).

883—*Hepaticæ Africanæ*. *Botanischer Jahrbücher* (Engler). viii. 79-95 (1887).

(*Hepaticæ* from St. Thomas and the Niger region.)

884—*Hepaticæ* von der Halbinsel Alaska. *Botanischer Jahrbücher*. viii. 96-99, Pl. III. (1887).

885—Hepaticæ Africanæ. Hedwigia, xxvii. 59-63, 106-113 (1888).  
(Hepaticæ from Kilimanjaro, Mascarene Is., Mozambique, Insula Principe and portions of W. Africa.)

886—Anthoceros Husnoti Stephani, n. sp. Rev. Bryol. xv. 49, 50 (1888).

887—Marchantia Bescherellei St., n. sp. Rev. Bryol. xv. 86, 87 (1888).

888—Calyculari crispula Mitten. Hedwigia, xxvii. 250-252 (1888).

889—Westindische Hepaticæ. Hedwigia, xxvii. 276-302, t. XI.-XIV. (1888).

(Hepaticæ from Porto Rico and Santo Domingo.)

890—Hepaticæ in Contribuções para o estudo da Flora da costa occidental d'Africa. Bolet. da Soc. Broteriana, v. 224-225 (1888).

(Species described in Hedwigia, xxvii. 108-110.)

891—Hepaticæ Australiae. Hedwigia, xxviii. 128-135, t. iii.; 155-175, t. iv.; 257-278 (1889).

892—Dichiton perpusillum Mont. Rev. Bryol, xvi. 49-51 (1889).

893—Die Gattung Lejeunea im Herbarium Lindenbergl. Hedwigia, xxix. 1-23, 68-99, 133-142 (1890).

894—Hepaticæ Africanæ novæ in insulis Bourbon, Maurice et Madagascar lectæ. Bot. Gazette, xv. 281-292 (1890).

895—Treubia insignis Göb. Hedwigia, xxx. 190-193 (1891).

896—Hepaticæ Africanæ. Hedwigia, xxx. 201-217, 265-272, t. xxi.-xxiv. (1891); xxxi. 120-130, t. v.-vii.; 165-174, t. x.-xv.; 198-214 t. xix.-xxi. (1892).

(Hepaticæ from the Cameroons, Leikipia, Cape Colony, Natal, Transvaal, Madagascar and the Mascarene Is.)

897—Cryptomitrium tenerum Austin. Bot. Gazette, xvii. 58-60 (1892).

898—The North American Lejeuneæ. Bot. Gazette, xvii. 170-173 (1892).

(List of 20 species; describes as new *L. Cardoti*, and *L. Underwoodii*.)

899—Hepaticæ novæ Caucasicæ. Bot. Centralblatt (1892).

900—Colenso's New Zealand Hepaticæ. Jour. Linn. Soc. xxix. 263-280, pl. 26-28 (1892).

(Reduces many of Colenso's species to synonymy; describes 18 new species.)

### Stewart, S. A.

901—Report on the Botany of South Clare and the Shannon. Proc. Roy. Irish Acad., 3d ser., i. 343-359 (1890).

**Strasburger, Eduard.** Warsaw, Poland, 1 Feb. 1844.

902—Die Geschlechtsorgane und die Befruchtung bei Marchantia polymorpha. Pringsh. Jahrb. vii. 409-422, t. XXV., XXVI. (1870).

903—Ueber Befruchtung und Zelltheilung. 8vo. Jena (1878).

(Die Befruchtungsvorgänge bei *Marchantia polymorpha*, pp. 12-14, t. I., f. 9-21.)

904—Das botanische Practicum. (Zweite Auflage.) 8vo. Jena (1887).

Morphology of *Marchantia polymorpha*, *Plagiochila asplenoides* and *Metzgeria furcata*, pp. 293-299, 442-447.)

905—Entwicklungsgeschichte und Bau der Spermatozoiden bei *Pellia calycina*. Histologische Beiträge, iv. 124-132 (1892).

**Sullivant**, William Starling. Franklinton, Ohio, 15 Jan. 1803. Columbus, Ohio, 30 April 1873.

906—Musci Alleghanienses, sive *Spicelegia Muscorum* atque *Hepaticarum* quas in Itinere a Marylandia usque and Georgiam per tractus montium, A. D. 1843, decerpserunt Asa Gray et W. S. Sullivant. 292 spec. exsicc. et 12 mo., pp. 72, Columbus (1845).

(Nos. 216-292 are *Hepaticæ*, and include several new and rare species.)

907—Review of Musci Alleghanienses, with descriptions of the new species. Amer. Jour. Sci. and Arts, 2d ser., i. 70-81 (1846).

908—Contributions to the Bryology and Hepaticology of North America. Part I. Mem. Amer. Acad., new ser., iii. 57-66 (1846); Part II. *Ibid.* iv. 169-176 (1849).

(Includes descriptions of 5 new species and notes on others.)

909—Notices of several new species of Mosses and *Hepaticæ* from Tierra del Fuego. Lond. Jour. of Bot. ii. 315-318 (1850).

(Describes 7 new *Hepaticæ*.)

910—The Musci and *Hepaticæ* of the United States east of the Mississippi River. 8vo. pp. iv. 113, New York (1856).

(Includes descriptions of *Hepaticæ*, with three plates illustrating the genera.)

911—*Hepaticæ*, in *Gray*: Manual of Botany, 2d Ed., (1856).

912—Descriptions of Musci and *Hepaticæ* collected on the Pacific R. R. Survey. Pacific R. R. Survey, iv. 185-193 (1858).

(List of 7 *Hepaticæ*, mostly from California.)

**Swartz**, Olaf. Norrköping, Sweden, 21 Sept. 1760. † Stockholm, 19 Sept. 1818.

913—Flora Indiæ occidentalis aucta atque illustrata, sive descriptiones plantarum in prodromo recensitarum. 3 vol. 8vo. Erlangen (1797-1806).

(Includes Musci hepatici, iii. pp. 1842-1885.)

**Sydow**, P.

914—Die Lebermoose Deutschland, Oesterreich und der Schweiz. 8vo. Berlin (1882).

## Szymanski, F.

915—Ueber einige parasitische Algen. Inauguraldiss. der Phil. Facultät der Univ. Breslau (1878).

(Nostoc colonies in Anthoceros and Blasia.)

**Szyszyłowicz**, Ignatius. Granicam, Poland, 30 July 1857. See also *Beck, G.*

916—O rozmieszczeniu wotrobowcov w Tatrach. Spra. Kom. Fiz. Krakau, xix. 25–125, 4 taf. (1885).

(An elaborate account of the distribution of the Hepaticæ of high Tatra. An extended resume can be seen in Just's Jahresbericht, XIII. 172–175.)

**Taylor**, Thomas. † Dunkerron, Ireland, Feb. 1848. See also *Hooker J. D., Hooker W. J.*

917—Hepaticæ, in *Mackay*; Flora Hibernica, comprising the flowering plants, ferns, Characeæ, Musci, Hepaticæ, Lichenes and Algæ of Ireland, arranged according to the natural system, with a Synopsis of the genera according to the Linnæan system. 8vo. pp. xxxvi. 354, 279, Dublin (1836).

(Describes 82 species of Irish Hepaticæ.)

918—De Marchantieis. Trans. Linn. Soc. xvii. 375–395, tab. XII.–XV. (1837).

919—On a new British Jungermannia. Jour. of Bot. iv. 97, 98, t. XX. (1842).

(Describes and figures *J. microscopica*.)

920—On two new species of British Jungermanniæ. Ann. and Mag. Nat. Hist. xii. 88–90 (1843).

(Describes *J. riparia* and *J. pumila*.)

921—Descriptions of Jungermannia fragilifolia and *J. germana*. Ann. and Mag. Nat. Hist. xii. 172, 173 (1843).

922—Description of Jungermannia ulicina (Taylor), and *J. Lyoni* (Taylor). [Read 13 May 1841.] Trans. Bot. Soc. (Edinburgh), i. 115–117, Pl. VII. (1844).

923—On two new species of Jungermannia and another new to Britain. [Read 9 Mar. 1843.] Trans. Bot. Soc. (Edinburgh), i. 179–181 (1844).

924—On four new species of British Jungermanniæ. [Read 13 July 1843.] Trans. Bot. Soc. (Edinburgh), ii. 43–46 (1846).

(*J. riparia*, *J. reclusa*, *J. fragilifolia*, and *J. germana*.)

925—On six species of Jungermannia new to Britain. Lond. Jour. of Bot. iv. 276–278 (1845).

(*J. uliginosa*, *J. subalpina*, *J. Schraderi*, *J. Zeyheri*, *J. gelida* and *J. Kunzeana*.)

926—Contributions to British Jungermanniæ. [Read 9 May 1844.]



Ann. and Mag. Nat. Hist. xiv. 11-14 (1844); also Trans. Bot. Soc. (Edinburgh), ii. 115-117 (1846).

927—New Hepaticæ. Lond. Jour. of Bot. v. 258-284, 365-417 (1846).

928—Diagnostic characters of five new species of Cryptogamic Plants from Jamaica. [Read 11 Nov. 1847.] Ann. and Mag. Nat. Hist. xx. 379-381 (1847); Trans. Bot. Soc. Edinburgh, iii. 23-25 (1850).

929—On the specific characters of certain new Cryptogamic Plants lately received from and collected by W. Jameson, on Pinchincha, near Quito. Lond. Jour. of Bot. vii. 278-285 (1848).

**Thedenius, Knut Fredrik.**

930—Musci Suecicæ Exsiccati. (Not seen.)

**Theel, J. G.**

931—De Skandinaviska artena af slagtet Scapania bland Lefvermosorna. 8vo. pp. 34 (1872).

**Theriot, J.**

932—Notes sur la Flore Bryologique de la Sarthe. Bull. de la Soc. d'Agric. Sci. et Arts de la Sarthe, xxxi. 493-510 (1887-8).

(List of 60 Hepaticæ.)

933—Notes sur la Flore Bryologique de la Sarthe. Rev. Bryol. xvii. 35-39 (1890).

(List of 8 Hepaticæ.)

933a—Récoltes bryologiques de la Société française de Botanique à Murat et dans le Cantal du 17 au 25 Août 1891. Rev. de Botanique, 481-500 (1891).

**Thunberg, Carl Pehr.** Jönköping, Sweden, 11 Nov. 1743. † Tunaberg (near Upsala), 8 Aug. 1822.

934—Flora Japonica, etc. 8vo. pp. lii. 418, Leipzig (1784).

(Includes 4 Hepaticæ, p. 343.)

935—Flora Capensis, etc. 8vo. pp. lxvi. 803, Stuttgart (1823).

(Includes 2 Hepaticæ, p. 741.)

**Thuret, Gustave.**

936—Recherches sur les Zoospores des Algues et les Antheridies des Cryptogames. Ann. des Sc. Nat., 3d ser., xv, 214-260 (1850); xvi. 1539 (1851). [Sep. pp. 93, 31 tab.]

(Figures antherozoids of *Pellia epiphylla* and *Fossombronia pusilla*.)

**Tolf, Robert.** Svenarum, (Småland), Sweden, 12 Dec. 1849.

937—Några småländska Mosslokaler. Bot. Notiser, 50-55 (1886).

937a—Ofversigt of Smalands mossflora. Bihang. till. Kongl. Svenska Vet. Akad. Handl. xvi. No. 9 (1891). [Sep. pp. 98.]

(Notes on the geographic distribution of 113 Hepaticæ.)

**Tournefort**, Joseph Pitton de. Aix (Provence), France, 5 June 1656. † Paris, 28 Dec. 1708.

938—*Institutiones rei herbariæ*. 3 vol. 4to. Paris (1700).

(Includes three *Hepaticæ*.)

**Trabut**, L. See also *Battandier*, A

939—*Riella Battandieri* sp. nov. *Rev. Bryol.* xiii. 35, 1 pl. (1886).

939a—*Mousses et Hépatiques nouvelles d'Algerie*. *Rev. Bryol.* xiv. 12, 13, 1 pl. (1887).

940—Revision des espèces du genre *Riella* et description d'une espèce nouvelle. *Rev. gén. de Bot.* ———, 449-454, 1 pl. (1891).

**Trevisan di Saint Leon**, Vittore.

941—*Nuovo censo delle Epatiche Italiane*. *Mem. reale Ist. Lomb. di Sci. e Lett.*, ser. 2, vii. ——— (1874).

942—*Schema di una nuova classificazione delle Epatiche*. *Mem. reale Ist. Lomb. di Sci. e Lett.*, ser. 3, iv. 383-451 (1877).

(Proposes a number of changes in generic names and some new genera; a schedule of his classification may be seen in *Rev. Bryol.* iv. 44-46.)

**Tuckerman**, Edward. Boston, Mass., 7 Dec. 1817. † Amherst, Mass., 15 Mar. 1886.

**Tuckerman**, E. and **Frost**, C. C.

943—*Catalogue of the Plants growing without cultivation within thirty miles of Amherst College*. 8vo. pp. 98, Amherst (1875).

(Includes List of *Hepaticæ*.)

**Underwood**, Lucien Marcus. New Woodstock, New York, 26 Oct. 1853.

944—*North American Hepaticæ*, with a preliminary list of species for additions and corrections. *Bot. Gazette*, vii. 18-21 (1882).

(List of 219 *Hepaticæ* from America, north of Mexico.)

945—*Descriptive Catalogue of the North America, north of Mexico*. *Bull. Illinois State Lab. Nat. Hist.* ii. 1-133 (1884).

(Includes descriptions of 231 *Hepaticæ*, with general statement of the characters of the group.)

946—*Schweinitz and American Hepaticæ*. *Bot. Gazette*, ix. 63 (1884).

947—*Some undescribed Hepaticæ from California*. *Bot. Gazette*, xiv. 112-114, Pl. III.-VI. (1888).

(Describes and figures 5 species named in Mss. by Gottsche.)

948—*Notes on our Hepaticæ*. I. *Northern Species*. *Bot. Gazette*, xiv. 191-198 (1888).

849—Hepaticæ, in *Gray*: Manual of Botany, Sixth Edition. 8vo, New York (1890).

(Describes the species of the Northeastern United States, pp. 702-732, with plates illustrating the genera taken from a previous edition.)

849a—A new North American *Lejeunea*. Bull. Torrey Bot. Club, xvii. 258, 259 (1890).

(*L. Macounii* Spruce from British Columbia.)

950—The Distribution of the Hepaticæ of North America. [Read Aug. 1890.] Proc. Amer. Assoc. for the Adv. of Sci. xxxix. 298-304 (1891).

951—A preliminary list of Pacific Coast Hepaticæ. *Zoe*, i. 361-367 (1891).

(List of 153 Hepaticæ with distribution by states.)

952—Recent work in Systematic Hepaticology. Bot. Gazette, xvii. 218-220 (1892).

953—Some points on the Nomenclature-priority Question. *Science*, xx. 116, 117 (1892).

(Discusses chiefly the nomenclature of the Hepaticæ.)

954—The Hepaticæ of Labrador. Bull. Torrey Bot. Club, xix. 269-270 (1892).

(List of 31 Hepaticæ collected by Rev. A. Waghorne.)

955—A few additions to the Hepatic Flora of the Manual Region. Bull. Torrey Bot. Club, xix. 299-301 (1892).

(Notes on distribution; synopsis of the U. S. Metzgeriæ.)

956—A preliminary comparison of the Hepatic Flora of Boreal and Sub-boreal Regions. Bot. Gazette, xvii. 305-312 (1892).

(Comparison of the Hepatic Flora of North America, Europe and Asia.)

**Underwood, L. M. and Cook, O. F.**

956a—Hepaticæ Americanæ; decades I.-XIV. (Nos. 1-140.) (1887-1892).

(Exsiccatae of American Hepaticæ issued in series of two decades, as follows: I.-II. (Nov. 1887); III.-IV. (Nov. 1888); V.-VI. (Nov. 1889); VII.-VIII. (May 1890); IX.-X. (May 1891); XI.-XII. (Dec. 1891); XIII.-XIV. (May 1892). (To be continued.)

**Unger, Franz.** Amthof zu Leitschach (Steiermark), Austria, 30 Nov. 1800. † Graz, 13 Feb. 1870.

957—Anatomische Untersuchung der Fortpflanzung theile *Riccia glauca*. *Linnæa*, xiii. 1-20 (1839).

**Vaillant, Sebastian.** Vigny (Seine-et-Oise), France, 26 May, 1669. † Paris, 26 May 1722.

958—*Botanicon Parisiense*. 8vo. pp. 132 (1723).

(Figures and describes 16 Hepaticæ. Cf. No. 498.)

**Vicq.**

959—Catalogue raisonne des Hepatiques observees dans l'arrondissement d'Abbeville. Mem. de la Soc. d'emulation d'Abbeville (1883).

**Vochung, H.**

960—Ueber die Regeneration der Marchantien. Prings. Jahrb. xvi. 367-312, t. XII. XIII. (1885).

**Voigt, Alwin.**

961—Beitrag zur vergleichenden Anatomie der Marchantien. Bot. Zeitung, xxxvii. 729-743, 745-759, Taf. IX. (1879).

**Waechter, L. W.**

961a—The life history of *Marchantia polymorpha*. Manchester Micros. Soc. Trans. 56, pl. (1891).

**Wahlenberg, Goran.** Eisenhutte near Carlstadt (Wermeland), Sweden, 1 Oct. 1780. † Upsala, 23 March 1851.

962—*Flora Lapponica*, etc. 8vo. pp. lxvi. 550. 30 tab. Berlin (1812).

963—*Flora Upsaliensis*. 8vo. pp. 495, Upsala (1820).

(Contains the *Hepaticæ*, pp. 353-400.)

964—*Flora Suecica*, etc. 2 vol. 8vo. Upsala (1831-33).

**Waldner, M.**

965—Die Entstehung der Schläuche in den Nostoccolonien bei *Blasia*. Sitzungsber. der kais. Akad. der Wissensch. (Wien), lxxviii. 294-300 (1878).

966—Die Entwicklung des Antheridiums von *Anthoceros*. Sitzungsber. der kais. Akd. der Wissensch. (Wien), lxxxv. (1887).

**Wallroth, Karl Friedrich Wilhelm.** Breitenstein, Germany, 13 March 1792. † Nordhausen, 22 March 1857.

967—*Annus botanicus, sive Supplementum tertium ad C. Sprengelii Floram Halensem*. 8vo, pp. xxx. 200, 6 tab., Hales (1815).

968—*Flora cryptogamica Germanicæ*. 2 vol. 12mo. Nuremberg (1831-33).

(Includes the *Hepaticæ*, Pars prior, pp. 34-83.)

968a—Scholion zu Hampe's *Prodromus Flora Hercyniæ*. *Linnæa*, xiv, 529-704 (1840).

(Includes 12 *Hepaticæ*, pp. 685-689.)

**Ward, Lester Frank.** Joliet, Ill., 18 June 1841.

969—A Guide to the Flora of Washington and Vicinity. Bull. U. S. Nat. Museum, No. 22, pp. 264 (1881).

(List of 29 *Hepaticæ*, pp. 143, 144.)

Warnstorf, C. — Germany, 2 Dec. 1837.

970—Systematische Zusammenstellung der bis zum Jahre 1870 in der Umgebung von Arnswalde beobachteten einheimischen und verwilderten Phanerogamen und Kryptogamen. Verhandl. des Bot. Vereins der Prov. Brandenburg, xiii. 1–46 (1871).

971—Zwei Tage in Havelberg und ein Ausflug nach der Ostpriegnitz. Verhandl. des Bot. Vereins der Prov. Brandenburg, xxi. 144–170 (1880).

972—Botanische Wanderungen durch die Mark Brandenburg im Jahre 1881. Verhandl. des bot. Vereins der Prov. Brandenburg, xxiii. 110–127 (1882).

973—Bryologische Notizen aus Brandenburg und Westfalen. Hedwigia, xxi. 53–54 (1882).

974—Beiträge zur Moosflora der Oberharzer. Hedwigia, xxii. 148–153, 163–170 (1883).

975—Sammlung deutscher Lebermoose, exsiccatae. (Not seen.)

976—Floristische Mittheilungen aus der Mark und Bericht über den in Juli des Jahres im Auftrage des Vereins unternommenen Ausflug nach Wusterhausen a. d. Dosse, Kyritz und Neustadt a. d. Dosse. Verhandl. des bot. Vereins der Prov. Brandenburg, xxiv. 148–155 (1883).

977—Moosflora der Provinz Brandenburg. Verhandl. des Bot. Vereins der Prov. Brandenburg, xxvi. 1–94 (1885). [Sep. 94 pp.]

978—Zur Frage über die Bedeutung der bei Moosen vorkommenden zweierlei Sporen. Verhandl. des Bot. Vereins der Brandenburg, xxvii. 181–182 (1886).

(Spores of *Blyttia Lyellii* said to produce male plants when small, and female plants when large.)

979—Beiträge zur Moosflora Grönlands. Schr. des Naturw. Vereins. des Harzes, ii. 70–73 (1887).

980—Bericht der Commission für die Flora von Deutschland 1888, Laub-, Torf- und Lebermoose. Bericht der Deutsch. Bot. Gesellschaft. v. 160–166 (1887); vi. 159–161 (1888); vii. 134–136 (1889); viii. 184–188 (1890); ix. 173–175 (1891).

981—Beiträge zur Moosflora Norwegens. Hedwigia, xxvi. 48–56 (1887).

982—*Riccia Hübeneriana* Lindenb. in der Mark aufgefunden. Schr. des Naturw. Vereins des Harzes, iv. 43–45 (1889).

983—Ein Ausflug nach der Uckermark. Verhandl. des Bot. Vereins der Prov. Brandenburg. xxx. 288–298 (1889).

984—Bemerkungen über einige in Harz vorkommende Lebermoose. Schr. des Naturw. Vereins des Harzes, vi. 51–58 (1891).

985—Weitere Beiträge zur Flora der Uckermark. Verhandl. des Bot. Vereins der Prov. Brandenburg, xxxii. 255–271 (1891).

**Wartmann, Schenk und Winter.**

985a—Schweizerische Kryptogamen, Fasc. i.–xv. (Nos. 1–750) (1861–69).

(Contains *Hepaticæ exsiccatae* among other Cryptogams.)

**Watson, Hewitt C.**

985b—*Hepaticæ*, in Notes on the Botany of the Azores. Lond. Jour. Bot. iii. 616 (1844).

(List of 9 *Hepaticæ*.)

**Watson, Sereno.** East Windsor Hill, Ct., 1 Dec. 1826. † Cambridge, Mass., 9 March 1892.

986—On the Flora of Guadeloupe Island. Proc. Amer. Acad. n. ser. iii. 112–121 (1876).

(List of 4 *Hepaticæ* from this island collected by E. Palmer.)

**Weber, Herbert John.** Lawton, Mich., 27 Dec. 1865.

987—A Catalogue of the Plants of Nebraska. Ann. Rep. Nebraska State Board Agric. for 1890, 1–162 (1890).

(List of 15 *Hepaticæ*.)

**Weber, Friedrich.** 3 Aug. 1781. † Kiel, Schleswick-Holstein, 21 March 1821.

988—*Historiæ Muscorum Hepaticorum Prodrömus*. 8vo. pp. 160, Kilix (1815).

(Describes 223 *Hepaticæ* distributed among 7 genera.)

**Weber, Friedrich, und Mohr, D. M. H.**

989—*Beiträge zur Naturkunde*. 2 vol. 8vo. Kiel (1805–10).

990—*Botanisches Taschenbuch auf das Jahr 1807*. Deutschland kryptogamische Gewächse. I Abtheilung : Filices, Musci frondosi et hepatici. 12 mo. pp. xlvi. 509, 12 tab. Kiel (1807).

**Weber, George Heinrich.** Göttingen, Germany, 27 July 1752. † Kiel, 7 July 1828.

991—*Spicilegium Floræ Gottingensis, plantas imprimis cryptogamicas Hercyniæ illustrans*. 8vo. pp. 288, 5 tab. col., Gotha (1778).

**Weis, Freidrich Wilhelm.**

992—*Plantæ Cryptogamicæ Floræ Gottingensis*. 8vo. pp. xii. 333, 1 tab. col., Göttingen (1770).

**Weiss, Emanuel.**

993—*Floristisches aus Istrien und Dalmatien*. Verhandl. des zool.-bot. Vereins (Wien), xvii. 753–762 (1867).

(List of 12 *Hepaticæ*.)

**West, W.**

994—A stroll near Baildon in February. *Naturalist* (1882).

(List of 26 Hepaticæ.)

995—On *Metzgeria conjugata* Lindb. *Jour. of Bot.* xx. 176, 177 (1882).

996—*Lejeunea Rossettiana* Mass. *Jour. of Bot.* xxviii. 157 (1890).

**Westendorp, G. D. et Wallys.**

996a—Herbier Cryptogamique Belge, Fasc. I.—XXVIII. (Nos. 1–1400) (1848–1859).

(Contains Hepaticæ exsiccatae among other Cryptogams.)

**Wigand, Albert.**

997—Intercellularsubstanz und Cuticula. 8vo. pp. vi. 130, Braunschweig (1850).

(Account of leaf-structure of *Lophocolea bidentata*, *Plagiochila asplenoides*, *Radula complanata*, *Frullania tamarisci*.)

**Wilson, William.** See also *Hooker, W. J.*

998—Notes on the Hepaticæ in Hooker and Taylor's *Musci Britannici*. *Jour. of Bot.* iii: 386, 387 (1841).

999—On *Jungermannia Francisci* and *J. byssacea*. *Phytologist*, i, 937 (1844).

**Winkelmann, J.**

1000—*Jungermannia acuta* Lindenb. in Pommern. *Verhandl. des Bot. Vereins der Prov. Brandenburg*, vii. (1888).

**Withering, William.** Wellington (Shropshire), England, 1741. † Larches (near Birmingham), 6 Oct. 1799.

1001—A Botanical Arrangement of all the Vegetables naturally growing in Great Britain, with descriptions of the genera and species. 2 vol., 8vo. pp. xcvi. 838, 12 tab. (1776).

(Includes the Hepaticæ.)

**Wolf, John.** Mittelsin (Bavaria), Germany, 26 Dec. 1820.

**Wolf, J., and Hall, E.**

1002—A list of Mosses, Liverworts and Lichens of Illinois. *Bull. Ill. State Lab. Nat. Hist.* i. 18–35 (1878).

(List of 45 Hepaticæ.)

**Wright, Charles.** Wethersfield, Ct., 29 Oct. 1811. † Wethersfield, Ct., 11 Aug. 1885.

1003—Hepaticæ Cubenses Wrightianæ.

(A collection of Cuban Hepaticæ named by Gottsche; they were issued in unnumbered series from Cambridge, Mass., by Dr. Gray after Wright's death.)

**Wright, C. H.**

1004—Two new cryptogams. *Jour. of Bot.* xxviii., 106, 107 (1891).  
(Describes *Kantia Vincentina* from St. Vincent, W. I.)

**Wulfsberg, N.**

1005—Mosliste fra den nordligste Bøgeskov. *Bot. Notiser*, 78–82 (1877).

(List of 44 Hepaticæ from Lat. 60° 37' Norway.)

**Wünche, O.**

1006—Die Kryptogamen Deutschlands: Die höheren Kryptogamen. 8vo. pp. 127, Leipzig (1875).

**Zetterstedt, Johan Emanuel.** Viby (Norike), Sweden, 23 April 1828. † Jönköping, 18 Feb. 1880.

1007—Om vegetationem i de högländtaste trakterna af Småland. *Kongl. Svenska Vetensk.-Akad. Handl.* vi. No. 2, 1–37 (1865).

1008—Musci et Hepaticæ Oelandiæ. *Nova Acta Reg. Soc. Sc. Upsala*, ser. iii. ———, ——— (1869). [Sep. 47 pp.]

1009—Hepaticæ Pyrenaicæ circa Luchon crescentes. *Ofversigt af Kongl. Vetensk.-Akad. Forhandl.* 1875, No. 2. [Sep. 12 pp.]

1010—Om växtligheten på Vestergötlands siluriska berg med Särskeld hänsyn till Mossvegetationen. *Ofversigt af Kongl. Vetensk.-Akad. Forhandl.* 1876, No. 1, 43–71.

1011—Musci et Hepaticæ Finmarkiæ circa sinum Altensem crescentes. *Kongl. Svenska Vetensk.-Akad. Handl.* xiii. No. 13, 1–42 (1876).

1012—Musci et Hepaticæ Gothlandiæ. *Kongl. Svenska Vetensk.-Akad. Handl.* xiii. No. 14, 1–42 (1876).

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1014—Florula bryologica montium Hunneberg et Halleberg. *Kongl. Svenska Vetensk.-Akad. Handl.* xv. No. 1, 1–35 (1877).

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1016—Ueber die Einwirkung des Lichtes auf den *Marchantia* thallus. *Arb. des Bot. Inst. in Wurzburg*, ii. 665–669 (1872).



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