

B. Neue Literatur.

Zusammengestellt von C. Schuster.

I. Allgemeines und Vermischtes.

- A. A. Edward Alexander Newell Arber** (1870—1918). (*Journ. of Bot.* LVI [1918], p. 305—308.)
- A. A. Ethel Sargant** (October 28, 1863—January 16, 1918). (*New Phytologist* XVIII [1919], p. 120—128, 2 Fig.)
- A. D. C. Worthington Smith**. (*Kew Bull.* 1918, p. 31—32.)
- Andres, H.** Verstorbene Botaniker des Vereinsgebietes. (*Sitzungsber. Naturhist. Ver. preuß. Rheinl. u. Westf.* 1919 [1920], D., p. 23.)
- Andrews, A. Le Roy** Ingebrigt Hagen. (*The Bryologist* XXIII [1920], p. 79—80.)
- Anonymus.** Charles Ogilvie Farquharson and his work in West-Afrika. (*Kew Bull.* 1918, p. 353—361.)
- James Ramsay Drummond. (*Kew Bull.* 1921, Nr. 3, p. 123.)
- Robert Allen Rolfe. (*Ibidem* p. 123—127.)
- La legislazione fitopatologica in Italia dopo il 1913. (*Bollettino mensile di Informazioni e Notizie, R. Staz. di Patol. veget. Roma I* (1920), p. 108—126.)
- Thomas William Butcher 1868—1916. *Obituary.* (*Journ. R. Microsc. Soc.* 1916, p. 176.)
- Joseph Virieux († 16. mars 1915). (*Revue générale de Bot.* XXVII (1915), p. 95—96.)
- Alfred Gabriel Nathorst. †. (*Bot. Notiser för År* 1921, p. 21—22.)
- John Davies Siddal, 1844—1914. (*Journ. R. Microsc. Soc.* 1914, p. 238.)
- Atkinson, Geo. F. Charles Horton Peck**. (*Bot. Gazette* LXV [1918], p. 103—108, 2 Portraits.)
- Bock, G., und Frankenberg, G. v.** Die Selbstanfertigung eines Planktonnetzes. (*Mikrokosmos* VIII, p. 64—66, 8 Fig.)
- Bonnier, G.** L'oeuvre de Philippe van Tieghem. (*Revue génér. de Botan.* XXVI, p. 353—441, 1 Portr.)
- Borodin, J. P.** Philippe van Tieghem 1839—1914. (*Bull. Acad. imp. sci. St. Pétersbourg* 1914, p. 667—668.)
- Briosi, Giovanni.** Cenno sopra Giovanni Gussone (Con ritratto). (*Atti Ist. Bot. Univ. Pavia II. Ser. XII* [1914], p. III—V.)
- Cenno sopra Luigi Sodiro (Con ritratto). (*Atti Istit. Bot. Univ. Pavia XIV* [1914], p. III—XXI.)
- Britten, James.** In Memory of Edward Shearburn Marshall (1858—1919). (*Journ. of Bot.* LVIII [1920], p. 1—11 with Portrait.)
- John Gilbert Baker (1834—1920). (*Journ. of Bot.* LVIII [1920], p. 233—238.)
- Burnham, Stewart H.** Charles Horton Peck. (*Mycologia* XI [1919], p. 33—39, 1 Fig.)
- Chamberlain, Charles J. Henry Harold Welch Pearson**. (*Bot. Gazette* LXIII [1917], p. 150—151, with Portrait.)
- Chodat, R.** Richard-Emile-Augustin de Candolle. (*Archives des Sci. phys. et nat. Genève. 5. Période. Vol. II* [1920], p. 170—175.)
- Clinton, G. P. William Gilson Farlow**. (*Phytopathology* X [1920], 8 pp. Pl. 1.)

- Collet, L. W.** Sir John Murray, K. C. B. 1841—1914. (Verhandl. d. Schweiz. Naturf. Gesellsch. 1914. I. Teil. Anhang, p. 126—139.)
- Cotton, A. D.** Cryptogams from the Falkland Islands collected by Mrs. Vallentin. (Journ. Linn. Soc. London XLIII [1915], p. 137—231, Pl. IV—X.)
- Coulter, J. M.** Ellsworth Jerome Hill. (Bot. Gazette LXIV [1917], p. 165—166, with Portrait.)
- Coulter, John M.** Charles Edwin Bessey. (Bot. Gazette LX [1915], p. 72—73, with Portrait.)
- Dangeard, P. A.** Th. van Tieghem, avec Portrait. (Bull. Soc. Bot. France LVI [1914], p. 271—273.)
- De Toni, Giovanni Battista.** Commemorazione del prof. Pier Andrea Saccardo, m. e. letta al Reale Istituto Veneto di scienze, lettere ed arti nell' adunanza ordinaria del 21 marzo 1920. (Atti R. Istit. Veneto Sci. Lett. ed Arti T. LXXIX [1919—1920], Parte prima, 36 pp., Portrait.)
- D. H. S.** Miss Ethel Sargent. (Kew Bull. 1918, p. 125—126.)
- Docters van Lecuwen, W.** In Memoriam Dr. S. H. Koorders. (Bull. Jard. Bot. Buitenzorg. Sér. III. Vol. II. Livr. 3, Sept. 1920, p. 237—241. Mit Portrait.)
- Ernst, Alfred.** Arthur Tröndle (1881—1920). (Vierteljahrsschr. Naturf. Gesellsch. Zürich LXV [1920], p. 608—610.)
- Fink, Bruce.** Hermann Edward Hasse, Lichenist. (Mycologia VIII [1916], p. 243—248, with Portrait.)
- Fitting, H., Jost, L., Schenck, H., Karsten, G.** Lehrbuch der Botanik für Hochschulen. XV. umgearb. Auflage. (G. Fischer, Jena 1921, 700 pp.)
- Fitzpatrick, H. M.** Publications of George Francis Atkinson. (Amer. Journ. Bot. VI [1919], p. 303—308.)
- Forti, Achille.** Alberto Grunow (1826—1914). Notizie biografiche. (La Nuova Notarisia XXVI [1915], p. 77—104, Portrait.)
- Freeman, E. M.** Division of plant pathology and botany. (Rep. Minnesota Agric. Experim. Stat. XXIII [1916], p. 47—48.)
— Division of plant pathology and botany. (Ibidem XXIV [1917], p. 54—57.)
- Fritsch, F. E., and Salisbury, E. J.** Further observations on the Heath Association on Hindhead Common. (New Phytologist XIV [1915], p. 116—138, 1 Plate, 1 Fig.)
- Galloway, B. T.** Newton B. Price. (Phytopathology VII [1917], p. 143—144.)
- Geisenheyner, L. Ew. H.** Rübsaamen. (Sitzungsber. Naturhist. Ver. preuß. Rheinlande u. Westfalens 1919 [1920], D., p. 18—22.)
- Verzamelde Geschriften van M. W. Beijerinck ter Gelegenheid van zijn 70 sten Verjaardag met Medewerking der Nederlandsche Regeering uitgegeven door zijne Vrienden en Vereerders. Eerste en Tweede Deel. (Delft 1921. 2 Bde. 40. I, 426 pp., mit Portrait, II, 359 pp.)
- Gunther, R. T.** Walter Stonehouse (1597—1658). (Journ. of Bot. LVIII [1920], p. 170—173.)
- Hill, Albert E.** Ellsworth Jerome Hill. (The Bryologia XX [1917], p. 39—40.)
- Jeffrey, E. C.** Octave Lignier. (Bot. Gazette LXII [1916], p. 507—508, with Portrait.)
— Charles René Zeiller. (Bot. Gazette LXI [1916], p. 528—529.)
- Josephy, Grete.** Pflanzengeographische Beobachtungen auf einigen schweizerischen Hochmooren mit besonderer Berücksichtigung des Hufeimooses im Kanton Thurgau. (Inaug.-Dissertation. Zürich 1920.)

- Juel, H. O.** Early Investigations of North American Flora, with Special Reference to Linnaeus and Kalm. (Svensk Linné-Sällskapet Årsskrift III [1920], p. 61—79.)
- Kammerer, Paul.** Allgemeine Biologie. 2. verb. Aufl. 8°. XIV und 358 pp., 4 farb. Taf., 85 Textabb. (Stuttgart und Berlin 1920.)
- Linton, Edward Francis.** William Moyle Rogers (1835—1920). (Journ. of Bot. LVIII [1920], p. 161—164, with Portrait.)
- Lloyd, C. G. H. C.** Beardslee. (Mycological Notes XLI [1916], p. 58. Portrait.)
- Loder, Gerald W. E.** Life and Letters of Sir Joseph Dalton Hooker. (Kew Bull. 1918, p. 345—351.)
- Mangin, L.** Paul Hariot (1854—1917). Notice nécrologique. (Bull. Soc. mycol. France XXXV [1919], p. 4—11, Portrait.)
— Notice sur M. William Gilson Farlow. (Compt. Rend. Acad. Sci. Paris T. CLXIX [1919], p. 445—448.)
- Mentz, Aug. V. A.** Poulsen. (Videnskab. Meddelelser-København LXXI [1920], p. V—IX, mit Portrait.)
- M. S.** James William Helenus Trail, M. A., M. D., P. R. S., F. L. S. (New Phytologist XIX [1920], p. 46—48.)
- Murrill, W. A.** Pier Andrea Saccardo. (Mycologia XII [1920], p. 164.)
— A Mycologist in the Making. (Ibidem p. 165.)
— George Francis Atkinson. (Mycologia XI [1919], p. 95—96.)
— George Francis Atkinson. (Journ. New York Bot. Gard. XIX [1918], p. 314—315.)
— Dr. William Gilson Farlow. (Mycologia XI [1919], p. 318.)
- Ostenfeld, C. H. F.** Kølpin Ravn født 10. Maj 1873, død 25. Maj 1920. (Bot. Tidsskr. XXXVII [København 1920], p. 113—120.)
- Pearson, Wm. Hy.** William Hobson. (The Bryologist XXIII [1920], p. 36—37.)
- Pilger, R.** Georg Hieronymus †. (Hedwigia LXII [1921], 4 pp., mit Bild.)
- Pinoy, Ed.** Prillieux. (Bull. Soc. mycol. France XXXII [1916], p. 7—16, avec portrait.)
- Pirotta, R.** Pasquale Baccarini (5 aprile 1858—24 luglio 1920). (Nuovo Giorn. Bot. Ital. XXVI [1919], p. 235—244.)
- Plitt, Charles C.** Dr. Hermann Edward Hasse. (The Bryologist XIX [1916], p. 30—33, with Portrait.)
- Pollacci, Gino.** In Ricordo di Giovanni Briosi (con ritratto). (Atti Istit. Bot. Univ. Pavia XVII [1920], p. I—XVII [Milano 1920].)
- Radals, Maxime.** Fernand Guéguen. Mycologue français 1872—1915. (Bull. Soc. mycol. France XXXI [1915], p. 37—52, avec portrait.)
- R(amsbottom), J.** Ernest Lee. (New Phytologist XIV [1915], p. 300—301.)
- Ravn, F. K.** Jena Ludwig Jensen. (Phytopathology VII [1917], 4 pp. [Portrait].)
- Read, Anne L.** Cora H. Clarke. (The Bryologist XIX [1916], p. 73—74.)
- Rendle, A. B.** Philippe Edouard Léon van Tieghem. Hon. F. R. M. S., 1839—1914. (Journ. R. Microsc. Soc. 1914, p. 335—336.)
— George Stephen West, M. A., D. Sc., F. L. S., Mason Professor of Botany in the University of Birmingham (1876—1919). (Journ. Quekett Micr. Club 2. Ser. XIV [1919], p. 104—105.)
- R. H. C.** Alfred Stanley Marsh. (Ann. of Bot. XXX [1916], p. XXV—XXVII.)
- Rose, J. N.** Edward Lee Greene. (Bot. Gazette LXI [1916], p. 70—72, with Portrait.)

- Rosenvinge, Kolderup L.** Viggo Albert Poulsen. (Bot. Tidsskr. XXXVII [København 1920], p. 107—112.)
- S(cott), D. H.** Miss Ethel Sargent, F. L. S. (Ann. of Bot. XXXII [1918], p. I—V.)
- Edward Alexander Newell Arber. (Ann. of Bot. XXXII [1918], p. VII—IX.)
- Count Solms-Laubach. (Bot. Gazette LXII [1916], p. 433—434, with Portrait.)
- David Thomas Gwynne-Vaughan. (Ann. of Bot. XXX [1916], p. I—XXIV, with Portrait.)
- Seward, A. C.** Ruth Holden (1890—1917). (New Phytologist XVI [1917], p. 154—156.)
- H. H. W. Pearson, F. R. S., Sc. D. (Cambridge). (Ann. of Bot. XXXI [1917], p. I—XVIII.)
- Shear, C. C., et Stevens, N. E.** The mycological work of M. A. Curtis. (Mycologia XI [1919], No. 4.)
- Smith, Annie Morrill.** Lura Lavonia Perrine. (The Bryologist XXIII [1920], p. 3.)
- Mary Frankham Miller. (Ibidem p. 80.)
- Smith, E. F.** In memory of Thomas J. Burrill. (Journ. Bact. I [1916], p. 269—271, Portrait.)
- Stevens, F. L., Pammel, L. H. and Cook, Mel. T.** Byron David Halsted, June 7, 1852—August 28, 1918. (Amer. Journ. of Bot. VII [1920], p. 305—317, with Portrait.)
- Tansley, A. G.** Geoffrey Boles Donaldson. (New Phytologist XV [1916], p. 203—204.)
- Charles Glass Playfair Laidlaw. (New Phytologist XIV [1915], p. 210—211.)
- Albert Stanley Marsh. (Ibidem XV [1916], p. 81—85.)
- Timm, R.** Karl Warnstorff. (Hedwigia LXIII [1921], p. 1—6.)
- Traverso, G. B.** Giuseppe Cuboni. Elenco delle pubblicazioni del Prof. Giuseppe Cuboni. (Bollett. uo mensile di Informazioni e Notizie R. Staz. Patol. Veget. I [1920], p. 133—154, con Portrait.)
- Commemorazione del Prof. Pier Andrea Saccardo tenuta per incarico della Società Botanica italiana. (Nuovo Giornale bot. ital. N. Ser. XXVII [1920], p. 39—74, mit Portrait.)
- Commemorazione de Prof. Giuseppe Cuboni. (Atti Soc. Agron. ital. [1921], 36 pp., Portrait.)
- Pier Andrea Saccardo. (Rivista di Biologia II [1920], fasc. 1, 4 pp., port.)
- Giuseppe Cuboni. (Bull. Soc. bot. ital. [1920], p. 44—50.)
- Trelease, William.** Thomas Jonathan Burrill, 25. April 1839—14. April 1916. (Bot. Gazette LXII [1916], p. 153—155, with Portrait.)
- Vuillemin, P.** L'abbé Léon Vouaux, 1870—1914. (Bull. Soc. mycol. France XXX [1915], p. 10—13, avec portrait.)
- W. B. G.** James Eustache Bagnall, A. L. S. (1830—1918). (Journ. of Bot. LVI [1918], p. 354—355.)
- Weese, J. F. v. Höhnel.** (Ber. Deutsch. Bot. Ges. XXXVIII [1920], 1921, p. (103)—(126).)
- Wileox, E. M.** Harvey Elmer Vasey. (Phytopathology IX [1919], p. 299—300.)

Winslow, E. J. Rev. James A. Bates. (Amer. Fern Journ. VII [1917], p. 1—3, Portrait.)

Zacharlas, O. Ernst Lemmermann. (Archiv f. Hydrobiol. u. Planktonk. XI [1917], p. 151.)

II. Myxomyceten.

Buchet, S., Chermezon, H. et Evrard, F. Matériaux pour la flore française des Myxomycètes. (Bull. Soc. mycol. France XXXVI [1920], p. 106—121.)

Ferdinandsen, C., and Winge, Ö. Ostenfeldiella, a new genus of Plasmodiophoraceae. (Ann. of Bot. XXVIII [1914], p. 643—649, Pl. XLV, 4 Textfig.)

— — Clathrosorus, a new genus of Plasmodiophoraceae. (Ann. of Bot. XXXIV [1920], p. 467—469, Pl. XXI.)

Hintikka, T. J. Révision des Myxogastres de Finlande. (Acta Soc. Faun. Flor. Fenn. XLVI [Helsingfors 1919], No. 9, 43 pp.)

Lister, G. Mycetozoa from Cornwall. (Journ. of Bot. LVIII [1920], p. 127—130.)

Skupiński, Francois Xavier. Note sur un nouveau Myxomycète et liste de quelques espèces du même groupe trouvées dans la Forêt de Fontainebleau. (Bull. Soc. mycol. France XXXII [1916], p. 37—41, 3 Fig.)

Sturgis, William C. Myxomycetes from South America. (Mycologia VII [1916], p. 34—41.)

Sturgis, W. C. Notes on new or rare Myxomycetes. (Mycologia IX [1917], p. 323—332, Pl. XIV—XV.)

— Notes on the Myxomycetes of the Curtis Herbarium. (Mycologia VIII [1916], p. 199—213.)

III. Schizophyceten.

Acton, E. Observations on the Cytology of the Chroococaceae. (Ann. of Bot. XXVIII [1914], p. 433—454, 2 Pl.)

Baumgärtel, O. Das Problem der Cyanophyceenzelle. (Archiv f. Protistenk. XI.1. p. 50—148.)

Boresch, K. Ein neuer die Cyanophyccenfarbe bestimmender Faktor. (Vorl. Mitteilg.) (Ber. d. Deutsch. Bot. Gesellsch. XXXVIII [1920], p. 286—287.)

— Ein Fall von Eisenchlorose bei Cyanophyceen. (Zeitschr. f. Bot. XI [1921], p. 65—78.)

— Phycoerythrin in Cyanophyceen. (Ber. d. Deutsch. Bot. Ges. XXXIX [1921], p. 93—98, 4 Textabbildungen.)

Braun, H. Über die Wirkung der Unterernährung auf Bakterien. Ein Beitrag zur Kenntnis des Einflusses von Hunger auf die lebendige Substanz. (Zeitschr. f. allg. Physiol. XIX [1920], p. 1—8.)

Brontenbrenner, J., and Schlesinger, M. J. Carbohydrate fermentation by bacteria as influenced by the composition of the medium. (Absts. Bact. III [1919], p. 8.)

Brooks, M. M. Comparative studies on respiration. — VIII. The respiration of *Bacillus subtilis* in relation to antagonism. (Journ. Gen. Physiol. II [1919], p. 5—15, 5 Fig.)

Brown, P. E. Bacterial activities and crop production. (Jowa Agric. Exp. Stat. Research Bull. XXV [1915], p. 359—388.)

Buchanan, R. E. Studies on the nomenclature and classification of the bacteria. II. The primary subdivisions of the Schyomycetes. (Journ. Bacteriology II [1917], p. 155—164.)

— Studies on the nomenclature and classification of the bacteria. (Ibidem p. 603—617.)

- Buchanan, R. E.** Studies in the classification and nomenclature of the bacteria VII. The subgroups and genera of the Chlamydo-bacteriales. (Journ. Bact. III [1918], p. 301—306.)
- Bacterial phylogeny as indicated by modern types. (Amer. Nat. LII [1918], p. 233—246, 3 Fig.)
- Studies in the classification and nomenclature of the bacteria X. Subgroups and genera of the Myxobacteriales and Spirochaetales. (Journ. Bact. III [1918], p. 541—545.)
- Chambers, W. H.** Studies in the Physiology of the Fungi. XI. Bacterial Inhibition by Metabolii Products. (Ann. Missouri Bot. Gard. VII [1920], p. 249—289.)
- Conn, H. J.** Are spore-bearing bacteria of any significance in soil under normal conditions. (Journ. Bact. I [1916], p. 187—195.)
- A possible function of Actinomycetes in soil. (Journ. Bact. I [1916], p. 197—207.)
- The microscopii study of bacteria and fungi in soil. (New York Agric. Experim. Stat. Techn. Bull. LXIV [1918], 20 pp.)
- Soil flora studies Part. II. (Journ. Bacteriology II [1917], p. 137—154.)
- Coupin, H.** Sur la répartition géographique des Algues bleues en France. (Revue génér. Bot. XXVII [1915], p. 50—59.)
- Drechsler, C.** The taxonomic position of the genus Actinomyces. (Proceed. Nat. Acad. Sci. IV [1918], p. 221—224.)
- Enderlein, Günther.** Über die geschlechtliche Fortpflanzung der Bakterien. (Bakteriologische Studien V.) (Beih. Bot. Centralbl. XXXVIII, 1. Abt. [1921], p. 53—72, 1 Tafel.)
- Faull, J. H.** Chondromyces Thaxteri, a new Myxobacterium. (Bot. Gazette LXII [1916], p. 226—232, Plates V—VI.)
- Fellers, C. R.** The longevity of *B. radicola* on legume seeds. (Soil. Sci. LXXVII [1919], p. 217—232.)
- Forti, A.** Myxophyceae della Somalia italiana. (Chiocenda, E. Le collezioni botaniche della missione Stefanini-Paoli, Firenze 1916.)
- Fred, Edwin B.** A laboratory manual of soil bacteriology. (Philadelphia 1916, 170 pp., 12°.)
- Funk, Georg.** Über das Verhalten der Oscillatoria amphibia Ag. im Kolonie-Verband. (Vorl. Mitteil.) (Ber. d. Deutsch. bot. Ges. XXXVIII [1920], p. 267—274, 1 Abb.)
- Garman, H., and Didlake, M.** Six different species of nodule bacteria. (Ann. Rep. Florida Agric. Exp. Stat. [1912], 1913.)
- Georgevitch, Peter.** A new case of symbiosis between a Bacillus and a Plant. Prelim. Note. (Kew Bull. 1916, p. 105—106, 21 Fig.)
- Ghose, S. L.** Campylo-nema Lahorenc, a new member of Scytonemaceae. (New Phytologist XIX [1920], p. 35—39, 6 Fig.)
- Gicklhorn, Josef.** Über den Plauglanz zweier neuer Oscillatorien. (Österr. Bot. Zeitschr. LXX [1921], p. 1—11, 3 Abb.)
- Gordan, P., und Bahr, C.** Bakterienkunde für landwirtschaftliche und Molkereilchranstalten, wie für die landwirtschaftliche Praxis. II. Aufl. Neubearb. unter Mitwirkung von Otto Rahn. (Kl. 8°, 66 pp., 32 Textabb. Berlin 1920.)
- Gorini, D. Constantino.** Weitere Untersuchungen über die Biologie der Milchsäurebakterien. (Centralbl. f. Bakt. usw. 2. Abt. LIII [1921], p. 284—287.)
- Hollande, A. Ch., et Beauverie, J.** Spirales de Curchmann et Aspergillose pulmonaire. (Bull. Soc. mycol. France XXXII [1916], p. 17—24, 4 Fig.)
- Hutchinson, C. M.** Report of the Imperial Agricultural Bacteriologist. (Sci. Rept. Agric. Res. Inst. Pusa 1918—1919 [1919], p. 106—114.)

- Janke, A.** Forschungsergebnisse auf dem Gebiete der Essigbakteriologie und Fortschritte der Gärungsessigindustrie (1912—1920). (Centralbl. f. Bakt. usw. II. Abt. LIII [1921], p. 81—124.)
- Kligler, J. J.** The evolution and relationship of the great groups of bacteria. (Journ. Bacteriology II [1917], p. 165—176.)
- Kraus, R.** Zur Frage der Bekämpfung der Heuschrecken mittels des *Coccobacillus acridiorum* d'Herelle. (Centralbl. f. Bakt. usw. 2. Abt. LIV [1921], p. 50—52.)
- Lantzech, Kurt.** *Bacillus amylobacter* A. et Bred. und seine Beziehung zu den Kolliden. (Centralbl. f. Bakt. usw. II. Abt. Bd. LIV [1921], p. 1—12, 2 Fig.)
- Löhnis, F.** Landwirtschaftlich-bakteriologisches Praktikum. II. Aufl. 8°. 165 pp. (Berlin 1920.)
- Lyon, T. L.** Influence of higher plants on bacterial activities in soils. (Journ. Amer. Soc. Agron. X [1918], p. 313—322.)
- Migula, W.** Die Spaltalgen. Ein Hilfsbuch für Anfänger bei der Bestimmung der am häufigsten vorkommenden Arten, nebst einer kurzgefaßten Anleitung zum Sammeln und Präparieren. (Stuttgart 1915, 73 pp., 5 Taf.)
- Noyes, H. A.** Bacteria in frozen soil. (Proceed. Indiana Acad. Sci. [1918], 1919, p. 110—116.)
- Otsuka, J.** Über den Einfluß verschiedener Metallsalze auf die Bildung bakterieller Abbauprodukte von Aminosäuren. (Biochem. Zeitschr. CXIII [1921], p. 81—87.)
- Perotti, R.** Sopra la misura del potere ammonizzante del terreno agrario. (Rendic. R. Accad. dei Lincei Cl. sci. fis. mat. e nat. XXIX ser. 5, 1e sem., fasc. 6 [1920], p. 1—5.)
- e **Rivera, V.** Su la fermentazione alcoolica del mosto di banane. (Staz. sperim. agr. ital. I [1917], p. 433—450, Tav. IX.)
- Pieper, A.** Die Phototaxis der Oscillarien. (Berlin 1915, 68 pp., 8°.)
- Prat, S.** Quelques remarques sur l'organisation des Cyanophycées. (Bull. internat. de l'Acad. Sci. de Bohême, 1920, 1 p.)
- Sackett, Walter, G.** Some Soil Changes produced by Micro-Organisms. (Bull. Agric. Experim. Stat. Colorado Agric. College. No. 196 [1914], 39 pp., Pl. I—III.)
- Schmid, Günther.** Versuche über Stereoverhalten der Oscillarien. (Biolog. Zentralbl. XLI [1921], p. 173—187.)
- Setchell, William Albert, and Gardner, Nathaniel Lyon.** The marine Algae of the Pacific Coast of North America. Part. I *Myxophyceae*. (Univ. Calif. Publ. VIII [1919], p. 1—138, Pl. I—VIII.)
- Sherwood, N. P.** A study of several strains of pleomorphic Streptococci. (Kansas Univ. Sci. Bull. XX [1917], p. 245—257.)
- Taskin.** Sur le traitement des lymphangites bacillaires et cryptococciques. (Rec. Méd. vétérin. d'Alfort, T. XCV [1919], p. 37—40.)
- Teodoresco, E.** Sur la presence d'une phycoerythrine dans le *Nostoc commune*. (Compt. Rend. Acad. Sci. T. CLXIII [1916], p. 62—64.)
- Trautwein, K.** Beitrag zur Physiologie und Morphologie der Thionsäurebakterien (Omelianski). (Centralbl. Bakt. etc. II. Abt. LIII [1921], p. 513—548, 7 Fig.)
- Vierling, Karl.** Morphologische und physiologische Untersuchungen über bodenbewohnende Mykobakterien. (Centralbl. f. Bakt. usw. II. Abt. LII [1920], p. 193—214, 1 Tafel.)
- Vogel, J., und Zipfel.** Beiträge zur Frage der Verwandtschaftsverhältnisse der Leguminosen-Knöllchenbakterien und deren Artbestimmung mittels serologischer Untersuchungsmethoden. (Centralbl. f. Bakt. usw. 2. Abt. Bd. LIV [1921], p. 13—34.)

- Williams, Bruce.** Some factors influencing nitrogen fixation and nitrification. (Bot. Gazette LXII [1916], p. 311—317.)
- Wilson, J. K.** Physiological studies of *Bacillus radicolica* of soybean (*Soja Max Piper*) and of factors influencing nodule production. (Cornell Agric. Experim. Stat. Bull. no. 386 [1917], p. 369—413, Fig. 80—94.)
- Winslow, C. E. A., Broadhurst, J., and others.** The families and genera of the bacteria. (Journ. Bact. II [1917], p. 505—566.)
- Yasuda, A.** *Microcystis pulverea* Forti. (Tokyo Bot. Mag. XXX [1916], p. (103), Japanese.)

IV. Algen.

- Acton, Elizabeth.** On the structure and origin of „Cladophora Balls“. (New Phytologist XV [1916], p. 1—10, 5 Fig.)
- On a new penetrating Alga. (Ibidem XV [1916], p. 97—102, 1 Plate and 2 Fig.)
- Studies on Nuclear Division in Desmids. I. *Hyalotheca dissiliens* (Sm.) Bréb. (Ann. of Bot. XXX [1916], p. 379—382, Pl. VIII, 4 Fig.)
- Allen, E. J.** On the culture of the plankton Diatom *Thalassiosira gravida* Cleve, in Artificial Sea-Water. (Journ. Marine Biol. Assoc. Unit. Kingdom new ser. X [1914], p. 417—439.)
- Ammann, Hans.** Dauerpräparate und Planktonmaterial. (Natur. VI, p. 518—520.)
- Die Geschichte einer Wasserblüte. (Archiv für Hydrobiol. u. Planktonk. XI, p. 496—501.)
- Andersen, E. N. and Walker, E. R.** An ecological study of the algae of some sand hill lakes. (Transact. Amer. Micr. Soc. XXXIX [1920], p. 51—85.)
- Andrews, F. M.** *Closterium monilliferum*. (Proceed. Indiana Acad. Sci. 1916, p. 323—324.)
- Bailey, L. W.** The Diatoms of New Brunswick and Prince Edward Island. (Transact. R. Soc. Canada, 3. Ser. VII, p. 57—76.)
- Barnola, J. M. de.** Nota bibliografica. La Diatomologica española en los comienzos del siglo XX por D. Florentino Azpeitia professor de la Escuela de Ingenieros de Minas. (Bol. de la Soc. Arag. de Ciencias Naturales Tomo XIII [1914], p. 177—180.)
- Baumann, E.** Die Vegetation des Untersees (Bodensee). — Vortrag. (Mitteil. d. Thurg. Nat. Ges., Heft XXI [1915] — Frauenfeld, 32 pp., 6 Fig.)
- Blake, J. M.** Picking out and mounting Diatoms. (Amer. Journ. Sci. XXXVII [1914], p. 535—538.)
- Borgesen, F.** The Marine Algae of the Danish West-Indies Part. III. Rhodophyceae (6) with Addenda to the Chlorophyceae, Phaeophyceae and Rhodophyceae. (Dansk Bot. Arkiv III, No. 1 f., Kobenhavn 1920, p. 396—498.)
- Borovicov, G. A.** La polarité renversée chez le *Cladophora glomerata*. (Bull. Jard. imp. bot. Pierre le Grand XIV [1914], p. 475—481.)
- Borzi, A.** Alge terrestri xerofile della Tripolitania. Note biologiche. (Boll. di studi ed informaz. del R. Giardino botan. di Palermo [1914], p. 91—130.)
- Bourquin, Helen.** Starch Formation in *Zygnema*. (Bot. Gazette LXIV [1917], p. 426—434, Pl. XXVII.)
- Bouvier, W.** Beiträge zur Diatomaceenforschung Steiermarks I. Beitr. (Jahresber. k. k. Staatsgymn. Loeben in Steiermark XVI [1915], p. 3—16.)
- Boyer, Ch. S.** A new Diatom. (Proceed. Amer. Nat. Sci. LXVI [1914], p. 219—221, Pl. X.)
- On Diatoms of Philadelphia. (Ibidem LXV [1913], 1914, p. 581—582.)
- Brehm, V.** Probleme der modernen Planktonforschung. I. Teil. (Jahresber. k. k. Staatsgymn. Eger [Böhmen], 1914, 20 pp.)

- Bristol, B. Muriel.** On the Life-history and Cytology of *Chlorochytrium grande* sp. nov. (Ann. of Bot. XXXI [1917], p. 107—126, Pl. V—VI, 2 Fig.)
- On a Malay Form of *Chlorococcum humicola* (Näg.) Rabenh. (Journ. Linn. Soc. London, Bot. XLIV [1919], p. 473—482, Pl. XVII—XVIII.)
- On the Alga-Flora of some desiccated English Soils: an Important Factor in Soil Biology. (Ann. of Bot. XXXIV [1920], p. 35—80 Pl. II, 12 Fig., 3 Tables in the Text.)
- Brutshy, A.** Eine passiv planktonische Kieselalge auf *Cyclops strenuus*. (Mikrokosmos XI, p. 24—25, ill.)
- Bruyant, C.** Les Tourbières du Massif Mont-Dorieu. (Ann. de Biol. lacustre T. VI [1914], p. 339—391, ill.)
- Bullock-Webster, G. R.** The Characeae of the Rosses: West Donegal. (Irish Nat. XXVII, p. 7—10.)
- Burton, J.** *Hydrodictyon reticulatum*. (Journ. Quckett Microsc. Club ser. 2, XII [1915], p. 587—592.)
- Carter, Nellie.** Studies on the Chloroplasts of Desmids. I. (Ann. of Bot. XXXIII [1919], p. 215—254, Pl. XIV—XVIII.)
- Studies on the Chloroplasts of Desmids II. (Ibidem p. 295—304, Pl. XIX—XX.)
- The Cytology of the Cladophoraceae. (Ibidem p. 467—478, Pl. XXVII, 2 Textfig.)
- Studies in the Chloroplasts of Desmids III. X. The Chloroplasts of *Cosmarium*. (Ann. of Bot. XXXIV [1920], p. 265—285, Pl. X—XIII, 2 Textfig.)
- Studies in the Chloroplasts of Desmids IV. XI. The Chloroplasts of *Staurostrum*, XII. The Behaviour of the Chloroplasts during Cell-Division. (Ann. of Bot. XXXIV [1920], p. 303—319, Pl. XIV—XVI.)
- On the cytology of two species of *Characiopsis*. (Ibidem XVIII [1919], p. 177—186, 3 Fig.)
- Cayeux, L.** Existence de nombreuses traces d'Algues perforantes dans les minerais de fer oolithique de France. (Compt. Rend. Acad. Sci. Paris CLVIII [1914], p. 1539—1541.)
- Cedergren, Gösta R.** *Draparnaldia mutabilis* (Roth) nov. comb., non Bory. (Bot. Notiser [1920], p. 159—160.)
- Chemin, E.** Quelques Algues nouvelles du littoral du Calvados [*Fucus caranoides* L., *Callithamnion Gaillonii* Crouan, *Catenella Opuntia* Grev.]. (Bull. Soc. Linn. Normandie 6. sér. VII [1914], p. 33—34.)
- Le genre *Scinaia* (Floridées) dans l'Herbier Lenormand. (Bull. Soc. Linn. Normandie 6. sér. VII [1914], p. 65—66.)
- Quelques Algues rares du littoral (du Calvados) [*Delesseria sanguinea* Lamour., *Nitophyllum Gmelini* Grev.]. (Bull. Soc. Linn. Normandie 6. sér. VII [1914], p. 75.)
- Chien, S. S.** Peculiar effects of barium, strontium and cetium on *Spirogyra*. (Bot. Gazette LXIII, p. 406—409, 2 Fig.)
- Child, C. M.** Axial susceptibility gradients in Algae. (Bot. Gazette LXII [1916], p. 89—114.)
- Experimental alteration of the axial gradient in the Alga. *Griffithsia Bornetiana*. (Biol. Bull. XXXII [1917], p. 213—233, 15 Fig.)
- Chodat, R.** Sur un *Glaucocystis* et sa position systématique. (Bull. Soc. Bot. Genève 2 Sér. XI [1919], p. 42—49, 2 Fig.)
- Clark, F. C.** Diatoms. (South Calif. Acad. Sci. Bull. XV, p. 43—45, ill.)
- Clark, L.** Acidity of marine Algae. (Puget Sound Mar. Stat. Publ. I [1916], p. 235—236.)

- Cleland, Ralph, E.** The Cytology and Life-history of *Nemalion multifidum* Ag. (Ann. of Bot. XXXIII [1919], p. 323—351, Pl. XXII—XXIV, 3 Textfig.)
- Clément, H.** A propos des zones de croissance de certaines Algues. (Ann. Soc. Linn. Lyon LXI, p. 1—4, 4 Fig.)
- Collins, F. S.** Some Algae from the Chincha Islands. (Rhodora XVII, p. 89—96.)
— The Sargasso Sea. (Rhodora XIX [1917], p. 77—84.)
- Corbière, L.** Algues marines. (C. J. Pitard, Explor. Scient. du Maroc, Botanique, Paris 1913, p. 142—145.)
- Cotton, A. D.** Cryptogams from the Falkland Islands collected by Mrs. Vallentin. (Journ. Linn. Soc. London Bot. LXIII [1915], p. 137—231, Pl. IV—X.)
— Some Chinese marine Algae. (Kew Bull. [1915], p. 107—113.)
- Crow, W. Bernard.** The classification of some colonial-Chlamydomonads. (New Phytologist XVII [1918], p. 151—159, 2 Fig.)
- De Cisneros Daniel Jiménez.** Sobre la existencia de un grupo de *Acetabularia mediterranea* Lamk. (Boletín Soc. Ibérica Cienc. Nat. XVIII [1919], p. 133.)
- Dégillon, Auguste.** Contribution à la flore paludéenne des environs d'Yverdon. (Flore algologique.) (Bull. Soc. Vaud. Sci. nat. LIII [1920], p. 23—75.)
- Delf, E. Marion.** The Algal Vegetation of some Ponds on Hampstead Heath. (New Phytologist XIV [1915], p. 63—80, 3 Fig.)
- Desroche, P.** Observations morphologiques sur les Volvocacées. (Ass. franç. Avanc. Sci. Sess. de Tunis 1913 [1914], p. 307—312, 2 Fig.)
- De Toni, G. B. e Forti, Achille.** Contributo alla conoscenza della flora marina del Chili. (Atti R. Istituto Veneto di Scienze, Lettere ed Arti LXXIX [1919—1920], parte 2, p. 675—705.)
— — Analisi microscopica di alcuni saggi di fitoplancton raccolti dalla R. N. „Liguria“ con 2 Fig. nel testo e 3 tavole. (Memorie R. Istit. Veneto Sci. Lett. ed Arti XXIX [1916], No. 1.)
— — Catalogo delle Alghe raccolte nella regione di Bengasi dal R. P. D. Vito Zanon. (Atti R. Istit. Veneto Sci. Lett. ed Arti LXXXVI [1916].)
— La flora marina dell' isola d'Elba e i contributi di Vittoria Altoviti-Avila Toscanelli. (La Nuova Notarisia XXVIII [1917], p. 1—58.)
— Alcune considerazioni sulla Flora Marina. (La Nuova Notarisia XXVII [1916], p. 57—103.)
- Dollfus, R.** Les zones subterrestres et fittorales à l'île Tatihou et dans la région de Saint-Vaast-la-Hougue. (Bull. Mus. Hist. nat. Paris [1914] p. 253—267.)
- Duke, B. E.** Some marine Algae of County Cork. (Irish Naturalist XXIV [1915], p. 54—56.)
- Dunn, G. A.** A study of development of *Dumontia filiformis*. I. The development of the tetraspores. (Plant World XIX p. 271—281 2 Fig.)
- Dvorák, R.** Mitteilung über für Mähren neue Algen. (Sdělení s nových druhích moravských řas. (Třebíč 1920 Selbstverlag.)
- Elmore, Clarence J.** Changing Diatoms of Devils Lake. (Bot. Gazette LXV [1918], p. 186—190.)
- Faczynski, Jul.** Plankton zwierzczy dwóch stawków w Magdalówce. (Kosmos XXXVIII [1914], p. 203—214.)
- Fallis, Annie L.** Growth of the fronds of *Nereocystis Luetkeana*. (Puget Sound Marine Station Publ. I [1915], p. 1—8.)
— Growth in some Laminariaceae. (Puget Sound Marine Stat. Publ. I [1916], p. 137—155, Pl. XXV—XXVIII.)

- Farlow, W. G.** The vegetation of the Sargasso-sea. (Proceed. Amer. Philos. Soc. LIII [1914], p. 257—262.)
- Fischer, R.** Die Algen Mährens und ihre Verbreitung. (1. Mitteilg.) (Verhandl. naturf. Ver. Brünn LVII [1920], p. 1—94, 1 Tafel.)
- Fritsch, F. E.** Contributions to our Knowledge of the Freshwater Algae of Africa. (Ann. de biol. lacustre VII [1914], p. 40—59, 1 Pl.)
- The Algal Ancestry of the higher plants. (New Phytologist XV [1916], p. 233—250, 2 Fig.)
- and **Takeda, H.** On a species of Chlamydomonas (*C. sphagnicola*, F. E. Fritsch and Takeda — *Isococcus sphagnicolus* F. E. Fritsch). (Ann. of Bot. XXX [1916], p. 373—377, 14 Textfig.)
- The Morphology and Ecology of an extreme terrestrial Form of Zygnema (*Zygonium*) *cricetorum* (Kuetz.), Hansg. (Ann. of Bot. XXX [1916], p. 135—149, 3 Fig.)
- Frye, T. C., Rigg, G. B., and Crandall, W. C.** The size of kelps on the Pacific coast of North-America. (Bot. Gazette LX [1915], p. 473—482, 2 Fig.)
- Gams, H.** Kleinere Demonstrationen — 2 Adventive Meeresalgen. (Verhandl. Schweiz. Naturf. Gesellsch. 100. Jahresvers. [1919 in Lugano], Vorträge, p. 116.)
- Gard, M.** Sur une hybride des *Fucus ceranoides* L. et *F. vesiculosus*. (Compt. Rend. Acad. Sci. CLX [1915], p. 323—325.)
- Gardner, N. L.** New Pacific Coast marine Algae I. (Univ. Calif. Publ. Bot. VI [1917], p. 377—416, Pl. XXXI—XXXV.)
- New Pacific Coast Marine Algae II. (Ibidem VI [1918], p. 429—454, Pl. XXXVI—XXXVII.)
- New Pacific Coast Marine Algae III. (Ibidem VI [1918], p. 455—486, Pl. XXXVIII—XLI.)
- Gates, Fr. S.** Swamp Vegetation in hot Springs Areas at Los Baños, Laguna. P. II. (The Philipp. Journ. Sci. Botany IX [1914], p. 495—516, Pl. XI—XV.)
- Ghose, S. L.** A new species of *Uronema* from India. (Ann. of Bot. XXXIV [1920], p. 95—98, 15 Fig.)
- Gieckhorn, Josef.** Über eine neue Euglenacee (*Amphitropis aequiciliata* nov. gen. et spec.). (Österr. Bot. Zeitschr. LXIX [1920], p. 193—199.)
- Griffiths, B. Millard.** On *Glaucoyystis Nostochusarum*, Itzigsohn. (Ann. of Bot. XXI [1915], p. 423—440, Pl. XIX.)
- Grönblad, R.** Observationes criticae quas ad cognoscenda *Closterium didymotocon* Corda et *Closterium Baillyanum* De-Bréb. proposuit. (Acta Soc. Faun. Flor. Fenn. XLVI [Helsingfors 1918—1919], No. 5, 19 pp., 2 Tab.)
- Grove, W. B.** *Pleodorina illinoiensis* Kofoid in Britain. (New Phytologist XIV [1915], p. 169—182, 11 Fig.)
- **Muriel, B., and Carter, Nellie.** The Flagellates and Algae of the District around Birmingham. (Journ. of Bot. Suppl. III [1920], p. 1—55.)
- Gutwinski, R.** Flora i plankton gónów Morskiego Oka. (Kosmos XXXVIII [1913], p. 1426—1437.)
- Hariot, P.** Algues d'eau douce. (C. J. Pitard, Explor. Scient. du Maroc, Botanique, Paris 1913, p. 141—142.)
- La flore marine de l'île de Tahiti et de Saint-Vaast-la-Hougue. (Compt. Rend. Acad. Sci. Paris CLIX [1914], p. 689—692.)
- Hartmann, H.** Theoretische Bedeutung und Terminologie der Vererbungserscheinungen bei haploiden Organismen (*Chlamydomonas*, *Phycomyces*, Honigbiene). (Zeitschr. f. induct. Abstamm. u. Vererb.-Lehre XX, p. 1—26.)

- Haumann-Merek, L.** Les Parasites végétaux des plantes cultivées en Argentine et dans les régions limitrophes. (Anales Mus. Nac. Hist. Nat. Buenos Aires XXVI [1915], p. 163—225, 9 Fig.)
- Henry, G.** On the vertical distribution of the plankton in Winona Lake. (Proceed. Indiana Acad. Sci. 1913 [1914], p. 77—92, 17 Fig.)
- Higley, R.** Notes on *Cephaleuros virescens*. (Transact. Illinois Acad. Sci. X, p. 256—258.)
- Hill, G. A.** *Conferva bombycina* Agardt in Washington. (Puget Sound Marine Stat. Publ. I [1916], p. 220, Pl. XXXVIII.)
 — Origin of second spiral in *Spirogyra Lutetiana*. (Ibidem p. 247—248, Pl. XLVI.)
 — *Spirogyra dubia longiarticulata* Kütz. in Washington. (Ibidem p. 234 Pl. XLII.)
 — *Spirogyra gigantea* n. sp. (Ibidem p. 198.)
- Hodgetts, William J.** The conjugation of *Zygonium ericetorum* Kutz. (New Phytologist XVII [1918] 1919, p. 238—251, 2 Fig.)
 — Notes on Freshwater Algae I—IV. (New Phytologist XIX [1920], p. 254—263.)
 — *Dicranochaete reniformis* Hieron. a Freshwater Alga new to Britain. (New Phytologist XV [1916], p. 108—116, 1 Fig.)
 — *Roya anglica* G. S. West, a new Desmid with an description of the genus *Roya*. (Journ. of Bot. LVIII [1920], p. 65—69, with Fig.)
 — A new species of *Spirogyra*. (Ann. of Bot. XXXIV [1920], p. 519—524, Pl. XXII.)
- Hornby, A. J. W.** A new British Fresh Water Alga. (New Phytologist XVII [1918], p. 41—43, 4 Fig.)
- Howe, M. A.** Some midwinter Algae of Long Island Sound. (Treue XIV [1914], p. 97—101.)
 — The Marine Algae of Peru. (Memoirs of the Torrey Bot. Club XV [1914], 185 pp., Pl. I—LXVI.)
 — Observations on monosporangial discs in the genus *Liagora*. (Bull. Torrey Bot. Club XLI [1920], p. 1—8, Pl. I.)
 — and Hoyt, W. D. Notes on some marine algae from the vicinity of Beaufort, North-Carolina. (Mem. N. Y. Bot. Gard. VI [1916], p. 105—123, Pl. 11—15.)
- Huber, G.** Beobachtungen an *Gloeotaenium Loitlesbergerianum* Hansg. (Verhandl. Schweiz. Naturf. Gesellsch. 100. Jahresvers. [1919 in Lugano], p. 111.)
- Hurd, A. M.** Factors influencing the growth and distribution of *Nereocystis Luetkeana*. (Puget Sound Marine Stat. Publ. I [1916], p. 185—197.)
 — *Codium dimorphum*. (Ibidem I [1916], p. 211—218, 1 Pl.)
 — *Codium mucronatum*. (Puget Sound Marine Stat. Publ. I [1916], p. 109—135, Pl. XIX—XXIV.)
 — Winter Condition of some Puget Sound Algae. (Ibidem I [1917], p. 341—348.)
- Hy, F.** Les Characées de France, Note additionelle. (Bull. Soc. Bot. France LXI, p. 235—241.)
- Järnefelt, H.** Pieni liisä potamoplanktonin tuntemireksi. (Meddel. Soc. Faun. Flor. Fenn. XLII [1915—1916], p. 4—5.)
 — Zur Kenntnis des Lebens in einem Brunnen. (Ibidem p. 10—13.)
- Janet, Ch.** L'alternance sporophyto-gamétophytique de générations chez les Algues. (Limoges, 1914 108 pp., 7 Fig., 8^e.)
 — Sur le *Botrydium granulatum*. (Compt. Rend. Acad. Sci. Paris CLXXI, p. 690—693.)
- Karrer, J.** Micrometabolism of *Nereocystis*. (Puget Sound mar. stat. Publ. I [1916], p. 227—233, 1 Pl.)

- Kawamura, T.** On the Border Line of Limnobiological Zones. (Bot. Magazine Tokyo XXX (1916) p. (155)—(156) — Japanese.)
- Keiβler, Karl v.** Über eine rote Wasserblüte des Heustadlwassers im Wiener Prater. (Mitteil. Sect. f. Naturk. österr. Touristenklub XXXII [1920], No. 1—2, 3—12.)
- Kibbe, Alice L.** Some points in the structure of *Alaria fistulosa*. (Puget Sound Marine Stat. Publ. I [1915], p. 43—57, Pl. VIII—IX.)
- Klemm, Johannes.** Beiträge zu einer Algenflora von Greifswald. (Mitteil. Naturw. Ver. Neuvorpommern u. Rügen XLVI [Greifswald 1920], p. 1—80.)
- Klugh, A. B.** A zonal Algae habitat. (Ontario Nat. Sci. Bull. VII, p. 64.)
- Koczwaro, M.** Fytoplankton stawów dobrostanskich. (Kosmos XL, p. 321—275, 1 Taf., 1 Fig.)
- Kofoid, C. A.** *Phytomorula regularis*, a symmetrical Protophyte related to *Coelastrium*. (Univ. Calif. Public. in Botany 1914, 6 pp., 1 Pl.)
- Kramer, Otto.** Beiträge zu einer Algenflora von Greifswald. (Mitteil. Naturw. Ver. Neuvorpommern u. Rügen XLVII [1920], p. 1—75.)
- Kurssanow, L.** Über die Teilung der Kerne bei *Vaucheria*. (Biol. Zeitschr. Moskau II, p. 13—27, 1 Taf.)
- Kuwada, Yoshinari.** Some peculiarities observed in the culture of *Chlamydomonas*. (Tokyo Bot. Mag. XXX [1916], p. 347—358, Pl. III.)
- Kylin, Harald.** Bemerkungen über den Bau der Spermatozoiden der Fucaceen. (Ber. d. Deutsch. Bot. Gesellsch. XXXVIII [1920], p. 74—78, 2 Abb. i. Text.)
— Über die Blasenellen einiger Florideen und ihre Beziehung zur Abspaltung von Jod. (Arkiv f. Bot. XIV, no. 5, 13 pp., 4 Textabb.)
- Lakowitz.** Die Erdalge *Protosiphon botryoides* (Kg.) Klebs. — Neu für Westpreußen. (42. Bericht Westpreuß. Bot. Zool. Ver. [Danzig 1920], p. 27—28.)
- Langdon, S. C.** Carbon monoxide in the pneumatocyst of *Nereocystis*. (Puget Sound Marine Stat. Publ. I [1917], p. 237—246, Pl. XLIII—XLV.)
- Lauterbach, Luise.** Untersuchungen über die Beeinflussung der Protoplasmaströmung der Characeen durch mechanische und osmotische Eingriffe. (Beih. Bot. Centralbl. XXXVIII, 1. Abt. [1921], p. 1—52, 2 Textabb.)
- Lazaro e Ibiza, Blas.** Una Alga cloroficea nueva para España. (Bol. R. Soc. Espan. Hist. Nat. XIII, p. 346—347.)
- Leder, H.** Einige Beobachtungen über das Winterplankton im Triester Golf (1914). (Internat. Rev. ges. Hydrobiol. u. Hydrogr. VIII [1917], p. 1—22.)
- Leisel, E.** Beiträge zur Entwicklungsgeschichte einiger Süßwasseralg. (Dissertation Göttingen 1914, 44 pp., 1 Doppeltafel.)
- Lemoine, Mad. P.** Melobesieae. (Journ. Linn. Soc. Bot. London XLIII [1915], p. 193—200, Pl. IX—X.)
— Calcareous Algae. (Report on the Danish Oceanogr. Exped. 1908—1910 to the Mediterran. and Adjac. Seas II. Biology [1915], p. 1—30, Pl. I.)
- Lewis, Ivey F., and Zirkle, Conway.** Cytology and systematic position of *Porphyridium cruentum* Nägeli. (Am. Journ. Bot. VII [1920], p. 333—340, Pl. XX—XXI.)
- Limberger, A.** Über die Reinkultur von *Zoochlorella* aus *Euspongilla lacustris* und *Castrada viridis* Volz. (Anz. Kais. Akad. Wiss. Wien 1918, p. 200—201.)
- Lucas, A. H. S.** An efflorescence on some New Zealand Kelps. (Proceed. of Linn. Soc. of N. South Wales Vol. XLI [1916], p. 676—679.)
- Lyle, Lillian.** The Marine Algae of Guernsey. (Journ. of Bot. LVIII [1920], Suppl. II, p. 1—16, Fig. 1—3, p. 17—32, Fig. 4—6; p. 33—48; p. 49—53.)
— Development Forms of Marine Algae. (New Phytologist XVII [1918], 1919, p. 231—238, Pl. I—II, 10 Fig.)

- Mac Caughey, Vaugan.** Algae of the Hawaiian Archipelago. I. (Bot. Gazette LXV [1918], p. 42—57.)
 — Algae of the Hawaiian Archipelago II. (Bot. Gazette LXV [1918], p. 121—149.)
 — A Survey of the Hawaiian Coral reefs. (Amer. Naturalist LII, p. 409—438, 9 Fig.)
- Mangin, L.** Sur le polymorphisme de certaines Diatomées de l'Antarctique. (Compt. Rend. Acad. Sci. Paris CLIX [1914], p. 476—484, 8 Fig.)
- Mann, Albert.** The economic importance of the Diatoms. (Smithson. Report for 1916 [Washington 1917], p. 377—386, Pl. I—VI.)
- Masamune, G.** A new locality of *Chromulina Rosanoffii*. (Tokyo Bot. Magazine XXX [1916], p. (402), Japanese.)
- Matsui, H.** Chemical Studies in some Marine Algae, chief material of „Kanten“. (Journ. Colleg. Agric. Imp. Univ. Tokyo V [1916], p. 413—417.)
- Mazza, Angelo.** Saggio di Algologia Oceanica. (La Nuova Notarisia XXVI [1915], p. 133—154; p. 181—206.)
 — Saggio di Algologia Oceanica. (Ibidem Vol. XXVII [1916], p. 1—53; p. 104—155; p. 169—215.)
 — Saggio di Algologia Oceanica. (Ibidem Vol. XXVIII [1917], p. 70—110.)
 — Aggiunte al saggio di Algologia Oceanica (Florideae). (La Nuova Notarisia XXXII [1921], p. 1—48.)
- Mc Gee, J. M.** The imbibitional swelling of Marine Algae. (Plant World XXI, p. 13—15.)
- Méheut.** Etude de la mer. Flore et Faune de la Manche et de l'Océan. (Paris 1913, 2 vol., 4^e, T. I, 208 pp., 22 Pl., T. II, 192 pp., 28 Pl., et Fig.)
- Merlin, A. A. C. Eliot.** Notes on Diatoms Structure. (Journ. Quekett Microsc. Club ser. 2, XII [1915], p. 578—580.)
- Merriman, Mabel L.** Nuclear division of *Spirogyra*. II. Nuclear division in *S. bellis*. (Bot. Gaz. LXI [1916], p. 311—324, Pl. XVIII—XX.)
- Miller, C. R.** Freshwater Algae occurring in the vicinity of the Island of Montreal. (Canadian Rec. Sci. IX, p. 391—425.)
- Mirande, R.** Algues. (Sarasin et Roux: Nova Caledonia Vol. I, Lief. II [Berlin u. Wiesbaden 1920], p. 111.)
- Miyoshi, M.** On the Discovery of *Chromulina Rosanoffii* in Japan. (Botanical Magazine Tokyo XXIIX [1915], p. 123—124, Japanese.)
 — Über das Leuchtwasser und dessen Schutz in Japan. (Bot. Magazine Tokyo XXIIX [1915], p. 51—53, Pl. IV.)
- Morton, F.** Die Tümpelflora Niederösterreichs. (Blätter f. Natursch. Niederösterr. IV [1917], p. 89—96.)
- Muenschner, W. L. C.** A Study of the Algae associations at San Juan Island. (Puget Sound Marine Stat. Publ. I [1915], p. 59—84.)
 — Distribution of shore Algae on Shaw Island. (Ibidem I [1916], p. 199—210, 3 Plates.)
 — A Key to the Phaeophyceae of Puget Sound. (Ibidem I [1917], p. 249—284, Plates 47—67.)
- Nakano, H.** The Vegetation of Lakes and Swamps in Japan III. Report., Lake Noziri. (The Bot. Magazine Tokyo XXX [1916], p. (31)—(50).)
 — Remarks on Dr. Kawamura's View concerning to the Limnobiological Zone-Limitation. (Ibidem p. (156)—(162) Japanese.)
- Naumann, Einar.** Studier över biologiskt Betingade Driftstörningar vid Vattenverk. (Skrifter av Södra Sveriges Fiskeri Förening 1920, No. 2 [Lund 1920], p. 60—80 mit deutscher Zusammenfassung.)
 — Några Synpunkter angående Vegetationsfärgningens Productionsbiologi II. (Ibidem p. 52—59 mit deutscher Zusammenfassung.)

- Neuenstein, H. von.** Über den Bau des Zellkerns bei den Algen und seine Bedeutung für ihre Systematik. (Arch. f. Zellforschung XIII [1914], p. I—91, 20 Fig.)
- Oestrup, E.** Marine Diatoms from the Coasts of Iceland. (Botany of Iceland I [1916], p. 347, 394, Pl. I.)
- Okamura, K.** History of Phycology in Japan. (Bot. Magazine Tokyo XXX [1916], p. (1)—(24).)
- List of Marine Algae collected in Caroline Islands, 1915. (Ibidem p. 1—14, Pl. I, 9 Fig.)
- Undaria and its Species. (Ibidem XXIX [1915], p. 266—278, Pl. XI.)
- History of Phycology in Japan. (Ibidem p. (1)—(24). Japanisch.)
- Icones of Japanese Algae Vol. III, N. IX—X, Vol. IV, N. I. (Tokyo 1915—1916.)
- **Onda, Keisuke** and **Higashi, M.** Preliminary Notes on the Development of the Carpospores of *Porphyra tenera*, Kjellm. (Tokyo Bot. Mag. XXXIV [1920], p. 131—135.)
- Orton, J. H.** Preliminary Account of a Contribution to an Evaluation of the Sea. (Journ. Mar. Biol. Assoc. of the United Kingdom, N. Ser. X [1914], p. 312—326.)
- Ostenfeld, C. H.** De Danske farvandes Plankton i aarene 1898—1901. Phytoplankton og Protozoer. 2 Protozoer; Organismer med usikker Stilling; Parasiter i Phytoplanktonter, med 4 Figurgrupper og 7 Tabeller i Teksten. (Kgl. Dansk Vidensk. Selsk. Skrift. Nat. og Math. Afd. 8 Raekke H. 2 [Kjøbenhavn 1916], p. 115—197.)
- Osterhout, W. J. V.** Tolerance of fresh water by marine plants and its relation to adaptation. (Bot. Gazette LXIII [1917], p. 146—149.)
- Oye, P. van.** Über das Plankton des Tjiliroveng-Flusses bei Batavia (Niederl. Ostindien). (Intern. Rev. gesamt. Hydrobiol. u. Hydrographie IX [1920], p. 160—165.)
- Kurzer Beitrag zur Kenntnis von *Pithophora smatrana* (Mart.) Wittr. (Hedwigia LXIII [1921], p. 43—47.)
- Palmer, T. Ch.** The Collecting and Preparation of Diatoms. (Proceed. Amer. Nat. Sci. Philadelphia LXV [1913], 1914, p. 380—381.)
- Paravicini, E.** Notizen zur Flora und Fauna des Goktschesees in Hocharmenien. (Archiv f. Hydrobiol. u. Planktonk. X, p. 414—416.)
- Paulson, Rob.,** and **Hastings Sommerville.** The Relation between the Alga and Fungus of a Lichen. (Journ. Linn. Soc. Bot. XLIV [1920], p. 497—506, Plates XXI—XXII.)
- Pavillard, J.** Accroissement et scissiparité chez les Périдиниens. (Compt. Rend. Acad. Sci. Paris CLX [1915], p. 372, Fig.)
- Périдиниens nouveaux du Golfe du Lyon. (Compt. Rend. Soc. Biol. Paris LXXVIII [1915], p. 120—122, Fig.)
- Flagellés nouveaux, epiphytes des diatomées. (Compt. Rend. Acad. Sci. CLXIII [1916], p. 65—68.)
- Recherches sur les Périдиниens du Golfe du Lyon. (Trav. Inst. Botan. de l'Univ. Montpellier et de la Station Zoolog. de Cette, série mixte, Mém. No. 4 [1916], p. 9—70, Pl. I—III.)
- Recherches sur les Diatomées pélagiques du Golfe du Lion. (Ibidem Mém. No. 5 [1916], 63 pp., Pl. I—II, Fig. 1—5.)
- Pease, V. A.** North Pacific coast species of *Desmarestia*. (Puget-Sound Mar. Stat. Publ. I [1917], p. 383—394, 2 Plates.)
- Péchoûtre, F.** La Sexualité hétérogamique des Laminaires et la reproduction chez les Algues phéoporées. (Revue génér. des sciences 1916.)
- Petersen, J. B.** Studier over Danske aërofile Alger. (Kgl. Danske Vidensk. Selsk. Skrift. 7. R. Naturv. og mathem. Afd. XII [1916], p. 269—380, 4 Tab.)

- Petkoff, St.** Matériaux pour la flore algologique du littoral Bulgare de la mer noire. (Revue acad. Bulgare des sciences XVII [1919], p. 25—134.)
- Piercy, Alma.** The Structure and Mode of Life of a Form of *Hormidium flaccidum* A. Braun. (Ann. of Bot. XXXI [1917], p. 513—537, 3 Pl., 6 Fig.)
- Playfair, G. J.** Oocystis and Eremosphaera. (Proceed. Linn. Soc. New South Wales XLI [1916], p. 107—147, Pl. VII—IX, Fig. 1—28.)
- The Genus *Trachelomonas*. (Ibidem XL [1915], part. I, p. 1—41, Pl. I—V, Fig. 1—20.)
- **G. D.** Contributions to a Knowledge of the Biology of the Richmond River. (Proceed. Linn. Soc. New South Wales XXXIX [1914], p. 93—151.)
- **G. J.** Freshwater Algae of the Lismore District, with an Appendix on the Algal Fungi and Scizomyetes. (Ibidem XL [1915], p. 310—362, Pl. XLI—XLVI, 10 Fig.)
- Pochettino, A.** Su la polarizzazione detta reticolare. II. Su alcuni fenomeni ottici presentati dalle valve striate delle diatomee. (Rendic. R. Accad. dei Lincei ser. 5. Vol. XXV, 2. sem., 1916, p. 162—188, Fig. I—III.)
- Preda, A.** Flora Algologica del golfo della Spezia. II. contributo. (La Nuova Notarisia XXVIII [1917], p. 59—69.)
- Pringshelm, F. G.** Kulturversuche mit chlorophyllführenden Mikroorganismen. IV. Die Ernährung von *Haematococcus pluvialis* Flot. (Beitr. z. Biol. Pflanzen XII, p. 413—435.)
- Zur Physiologie von *Polytoma uvella*. (Berichte d. deutsch. botan. Gesellsch. XXXVIII [1920], p. (8)—(10).)
- Printz, H.** Beiträge zur Kenntnis der Chlorophyceen und ihre Verbreitung in Norwegen. (Norsk Vidensk. Selsk. Skrift. 1915 [1916], No. 2.)
- Subaërial Algae from South Africa. (Kgl. Norske Videnskab. Selsk. Skrifter 1920 No. 1 [Trondhiem 1921].)
- Probst, Th.** Über die ungeschlechtliche Vermehrung von *Scrastrum spinulosum* Nägeli. (Tätigkeitsber. Naturf. Ges. Baselland 1911—1916, p. 174—177.)
- Rich, Florence.** Notes on the Algae of Leicestershire. (Journ. of Bot. LVI [1918], p. 264—268.)
- Rigg, G. B.** Seasonal development of bladder kelp. (Puget Sound Mar. Stat. Prbl. I [1917], p. 309—318.)
- Roe, Mabel Lewis.** A contribution to our knowledge of *Splachnidium*. (Bot. Gazette LXII [1916], p. 400—408, Pl. XIV—XVIII.)
- The development of the conceptacle in *Fucus*. (Bot. Gazette LXI [1916], p. 231, Pl. XIV—XVII.)
- Romanes, M. F.** Note on an algal limestone from Angola. (Trans. R. Soc. Edinb. LI [1917], p. 581—584, 1 Plate.)
- Rosenvinge, L. Kolderup.** Om nogle i nyere Tid indvandrede Havalger i de danske Farvande. (Botanisk Tidsskr. XXXVII [1920], p. 125—135. Mit englischer Zusammenfassung.)
- On the Spiral Arrangement of the Branches in some *Callithamnidae*. (Kgl. Danske Videnskab. Selskab. Biolog. Meddelelser II, 5 [1920], 70 pp., 4 Fig.)
- Roth, W.** Über die „goldige Wasserblüte“ unserer Aquarien. (Mikrokosmos 1915, p. 1—4, 5 Abb.)
- Rousselet, Ch. F.** Remarks on two species of African *Volvox*. (Journ. Quekett Microsc. Club ser. 2, XII [1914], p. 393—394.)
- Ruttner, F.** Die Verteilung des Planktons in Süßwasserseen. (Fortschr. d. Naturw. Forschg. IX [1914] p. 273—336.)

- Sauvageau, C.** Sur le développement et la biologie d'une Laminaire (*Saccorhiza bulbosa*). (Compt. Rend. Acad. Sci. de Paris CLX, p. 445—448.)
- Sur une nouvelle espèce de *Fucus*, *F. dichotomus* Sauv. (Ibidem p. 557—559.)
- Sur les plantules d'une Laminaire à prothalle parasite (*Phyllaria reniformis* Rostaf.) (Ibidem CLXVI, p. 787—782.)
- Sur les débuts du développement d'une Laminaire (*Saccorhiza bulbosa*). (Compt. Rend. Acad. Sci. CLXI [1915], 4 pp., illustr.)
- Sur les variations biologiques d'une Laminaire (*Saccorhiza bulbosa*). (Compt. Rend. Acad. Sci. T. CLXIII [1916], p. 396—398.)
- Schermer, E.** Das Winterplankton des Mühlenteiches in Lübeck. (Kleinwelt 1915, p. 88—93.)
- Schiller, J.** Ein Novum unter den Algen. (Die Naturwissenschaften IV [1916], p. 76—80.)
- Die neue Gattung *Heterodinium* in der Adria. (Arch. f. Protistenk. XXXVI, p. 209—213, 4 Fig.)
- Schmid, Günther.** Über die vermeintliche Einzelligkeit der Spirulinen. (Berichte d. Deutsch. Botan. Gesellschaft XXXVIII [1920], p. 368—371.)
- Sehub, R. E.** *Kjellmania sorifera* found on the Rhode Island Coast. (*Rhodora* XVI [1914], p. 152.)
- The Discovery of the long-sought Alga *Stictyosiphon tortilis*. (Ibidem p. 105.)
- Schussnig, B.** Bemerkungen zu einigen adriatischen Plankton-Bacillaricn. (Sitzungsber. Akad. Wien CXXIV [1915], p. 30.)
- Sellards, E. H.** Some Florida Lakes and Lake Bassins. (Ann. Rep. Florida State geol. Surv. VI [1914], p. 115—159, Fig. 27—39.)
- Setchell, W. A.** Parasitic Florideae. I. (Univ. Calif. Public. in Botany VI [1914], p. 122—144, 7 Fig.)
- The *Scinaia* assemblage. (Ibidem p. 79—152, Pl. X—XVI.)
- Geographical distribution of the marine algae. (Science. II. Ser. XLV [1917], p. 198—204.)
- and **Gardner, Nathaniel Lyon.** The marine Algae of the Pacific Coast of North America Part. II. — Chlorophyceae. (Univ. Calif. Publ. Botany VIII [1920] p. 139—374 Pl. IX—XXX.)
- Phycological Contributions I. (Ibidem Vol. VII [1920] p. 279—324, Pl. XXI—XXXI.)
- Shin-ichi, Hibino.** On *Chromulina Rosanoffii* recently discovered at Shimo Toraiwa in the Province of Shinano. (*Bot. Magazine Tokyo* XXIX [1915] p. 125.)
- Sjostedt, Gunnar.** Om järnutfällning hos hafsalger vid Skånes kuster. (Bot. Notiser for År 1921, p. 101—130.)
- Skottsberg, C.** Remarks on *Splachnidium rugosum* (L.) Grev. (Svensk Bot. Tidskr. XIV [1920].)
- Botanische Ergebnisse der schwedischen Expedition nach Patagonien und dem Feuerlande 1907—1909. VIII. Marine Algae. I. Phaeophyceae. (Kgl. Svsk. Vetenskapsakad. Handl. LXI [1921].)
- Notes on Pacific Coast Algae. I. *Pylaiella Postelsiae* n. sp. a new Type in the Genus *Pylaiella*. (Univ. of California Public. Bot. VI [1915], No. 6 p. 153—164. Pl. XVII—XIX.)
- Smith, Gilbert Morgan.** Cytological Studies in the Protococcales. I. Zoospore Formation in *Characium Sieboldii*, A. Br. (Ann. of Bot. XXX [1916], p. 459—466. Pl. XI, 2 Textfig.)

- Smith, Gilbert Morgan.** Cytological Studies in the Protococcales. II. Cell Structure and Zoospore Formation in *Pediastrum Boryanum* (Turp.) Menegh. (Ibidem p. 467—479, Pl. XII, 4 Fig.)
- Cytological Studies in the Protococcales. III. Cell Structure and Autospore Formation in *Tetraedron minimum* (A. Br.), Hansg. (Ann. of Bot. XXXII [1918], p. 459—464 Pl. XV.)
- A monograph of the algal genus *Scenedesmus* based upon pure culture studies. (Transact. Wisconsin Acad. Sci. XVIII [1916], p. 422—530 Pl. XXV—XXXIII.)
- A preliminary list of algae found in Wisconsin lakes. (Ibidem p. 531—565.)
- Spence, Magnus.** Laminariaceae of Orkney, their Ecology and Economics. (Journ. of Bot. LVI [1918], p. 281—285.)
- The economic uses of Brown Sea Weeds. (Ibidem LVI [1918], p. 337—340.)
- Spruit, C. P. P. zoon.** The influence of electrolytes on the tactical movements of *Chlamydomonas variabilis* Dangeard. (Rec. trav. bot. néerl. Vol. XVII, Livr. 3 [1920], p. 129—204.)
- Ström, Kaare Münster.** Some Algae from hot Springs in Spitzbergen (Bot. Notiser för År 1921, p. 17—21.)
- Freshwater Algae from Caucasus and Turkestan. (Nyt Magazin for Naturvidensk. LVII [1919], 14 pp., Pl. II.)
- Freshwater Algae from Tuddal in Telemark. (Ibidem 53 pp., Pl. III—V.)
- Swirenko, D.** Zur Kenntnis der russischen Algenflora. II. Euglenaceae (excl. *Trachelomonas*). (Arch. f. Hydrobiol. u. Planktonk. X, p. 321—340.)
- Takeda, H.** *Dysmophococcus variabilis* gen. et sp. nov. (Ann. of Bot. XXX [1916], p. 151—153, 15 Textfig.)
- *Scourfieldia cordiformis*, a new *Chlamydomonad*. (Ibidem p. 157—159, 5 Fig.)
- On *Carteria Fritschii* sp. nov. (Ann. of Bot. XXX [1916], p. 369—372, 10 Textfig.)
- Teiling, E.** Schwedische Planktonalgen II. *Tetrallantos*, eine neue Gattung der Protococcoideen. (Svensk Bot. Tidskr. X [1915], p. 59—66, 15 Fig.)
- Tempère et Peragallo.** Diatomées du Monde entier. Tables 2^e edition. (Arcachon 1915.)
- Transeau, E. N.** Notes on the Zygnematales. (Ohio Journ. Sci. XVI [1915], p. 17—31.)
- True, Rodney H.** Notes on osmotic experiments with marine algae. (Bot. Gazette LXV [1918], p. 71—82.)
- Tscharna, Rayss.** *Le Coelastrum proboscideum* Bohl. Étude de planctologie expérimentale. (Matériaux pour la flore cryptogamique Suisse V [1915].)
- Tschenzoff, B.** Die Kernteilung bei *Euglena viridis* Ehrbg. (Archiv f. Protistenk. XXXVI, p. 137—173, 2 Taf., 2 Fig.)
- Vilhelm, J.** Beiträge und Bemerkungen zur Erforschung der böhmischen Charophyten in den Jahren 1914—1919. (Casopis Musea Král. Českého Prag 1920, 7 pp.)
- Vouk, V.** Die Untersuchungen über Phytobenthos im Quarnergebiet. (Acad. sci. et arts Slaves du Sud Zagreb [1915], p. 66—77, 99—117.)
- Die marine Vegetation des Golfes von Bakar (Buccari). (Ibid. [1915], p. 45—51.)
- Walton, L. B.** *Eutetramorus globosus*, a new genus and species of Algae belonging to the Protococcoidea (Family Coelastridae). (Ohio Journ. Sci. XVIII, p. 126—128, 1 Fig.)
- Cell division and the formation of Paramylon in *Euglena oxyuris* Schmarda. (Ohio Nat. XV, p. 449—451, Fig. A—H.)
- Weibull, M.** Undersökning av havsallat (*Ulva Lactuca* L.) från Oeresund. (Kemisk-Mineral. Fören o Lund Festskr. vid dess femtjårsjubil. [1918], p. 103—104.)

- West, G. S.** Algae. Vol. 1. Myxophyceae, Peridinieae, Bacillarieae, Chlorophyceae, together with a brief Summary of the Occurrence and Distribution of Freshwater Algae. (Cambridge University Press 1916, X et 476 pp., 271 Illustr.)
- and **Starkey, Clara B.** A contribution to the cytology and life-history of *Zygnema ericetorum* (Kütz.) Hansg., with some remarks on the „Genus“ *Zygonium*. (New Phytologist XIV [1915], p. 194—205, 5 Fig.)
- Wettstein, F. v.** Künstliche haploide Parthenogenese bei *Vaucheria* und die geschlechtliche Tendenz ihrer Keimzellen. (Ber. d. deutsch. bot. Ges. XXXVIII [1920], p. 260—266, 2 Abb.)
- Zur Bedeutung und Technik der Reinkultur für Systematik und Floristik der Algen. (Österr. Bot. Zeitschr. LXX [1921], p. 23—29.)
- Wille, N.** On Algesamfund red Norges Kyst. (Naturen [1917], 25 pp., 12 Fig.)
- Woloszynska, J.** Polnische Süßwasser-Peridineen. (Bull. Akad. Sci. Cracovie sér. B. [1915], 1916, p. 260—285, 5 Taf.)
- Neue Peridineen-Arten, nebst Bemerkungen über den Bau der Hülle bei *Gymno-* und *Glenodinium*. (Ibidem sér. B. [1917], p. 114—122, 3 Taf.)
- Yendo, K.** On the cultivation of Seaweeds, with special account on their Ecology. (Econ. Proceed. R. Soc. Dublin [1914], 18 pp., 1 Pl.)
- Notes on Algae new to Japan. III. (Ibidem XXIX [1915], p. 99—117, Fig. 1.)
- Notes on Algae new to Japan IV. (Ibidem XXX [1916], p. 47—65, Fig. 1—4.)
- Notes on Algae new to Japan V. (Tokyo Bot. Mag. XXX [1916], p. 243—263, 2 Fig.)
- *Erythrophyllum Gmelini* (Grun.) nov. nom. (Bot. Magazine Tokyo XXIX [1915], p. 230—237.)
- Zahlbruckner, A.** Schedae ad „*Kryptogamas exsiccatas*“ editae a Museo Palatino Vindobonensi, Centuria XXII. Algae (Decades 31—32). (Ann. K. K. Naturhist. Hofmus. Wien XXVIII [1914], p. 129—134.)
- Schedae ad „*Kryptogamas exsiccatas*“ editae a Museo Palatino Vindobonensi, Centuria XXIII. Algae (Decades 33—34.) (Ann. K. K. Naturhist. Hofmus. Wien XXIX [1915], p. 467—471.)
- Schedae ad „*Kryptogamas exsiccatas*“ editae a Museo Palatino Vindobonensi, Centuria XXIV. Algae (Decas 35) (Ann. K. K. Naturhist. Hofmus. Wien XXX [1916], p. 207—210.)
- Zimmermann, C.** II. Contribuição para o estudo das Diatomaceas dos Estado unidos do Brazil. (Broteria XIII, p. 37—56.)
- Algunas Diatomaceas novas ou curiosas. (Ibidem XIII.)
- **Walter.** Zur Entwicklungsgeschichte und Zytologie von *Volvox*. (Jahrb. f. wissensch. Bot. LX [1921], p. 256—294, 1 Tafel, 2 Textfig.)

V. Pilze.

- Adams, J. F.** Internal uredinia. (Mycologia VIII [1916], p. 181—182, Pl. 186.)
- Origin and development of the lamellae in *Schizophyllum commune*. (Mem. Torrey Club XVII [1918], p. 326—333, Pl. IX, Fig. a—b.)
- Sexual fusions and development of the sexual organs in the *Peridermiums*. (Pennsylvania Agric. Exp. Stat. Bull. Nr. 160 [1919] 1920, p. 31—76.)
- *Keithia* on *Chamaecyparis thuyoides*. (Torreya XVIII [1918], p. 157—160, 2 Fig.)
- The alternate stage of *Pucciniastrum Hydrangeae*. (Mycologia XII [1920], p. 33—35.)
- *Darluc* on *Peridermium Peckii*. (Mycologia XII [1920], p. 309—315, Pl. XXI.)
- Gametophytic development of blister rust. (Bot. Gaz. LXXI [1921], p. 131—138.)
- Alcock, N. L.** On the Life History of the Rose Blotch Fungus. (Kew Bull. 1918, p. 193—197, 2 Fig.)

- Allen, Charles E.** The basis of sex inheritance in *Sphaerocarpos*. (Proceed. Amer. Phil. Soc. LVIII [1919], p. 289—316, 28 Fig.)
- Anonymous.** Fungi exotici. XXIV. (Kew Bull. 1918, p. 207—210, 7 Figures.)
- Index to American mycological literature. (Mycologia XII [1920], p. 112—114.)
- Arnaud, G.** Notes mycologiques (g. *Isaria* et *Parodiopsis*). (Bull. Soc. mycol. France XXXI [1915], p. 20—24, Pl. II et III.)
- Arthur, J. C.** Uredinales of Porto Rico based on Collections by F. L. Stevens. (Mycologia VIII [1916], p. 16—33.)
- Uredinales of Porto Rico based on Collections by H. H. Wetzel and E. W. Olive. (Mycologia IX [1917], p. 55—104.)
- Cultures of Uredineae in 1916 and 1917. (Mycologia IX [1917], p. 294—312.)
- New species of Uredineae X. (Bull. Torrey Club XLV [1918], p. 141—156.)
- Uredinales of the Andes, based on collections by Dr. and Mrs. Rose. (Bot. Gazette LV [1918], p. 460—474.)
- Two destructive rusts ready to invade the United States. (Science N. S. LXI [1920], p. 246—247.)
- Rusts of the West Indies. (Torreya XVII (1917), p. 24—27.)
- Arthur, J. C. and Fromme, F. D.** New species of grass rusts. (Torreya XV [1915], p. 260—265.)
- Arthur, J. C. and Johnston, J. R.** Uredinales of Cuba. (Mem. Torrey Club XVII [1918], p. 97—175.)
- Atkinson, G. F.** Six misunderstood species of *Amanita*. (Mem. Torrey Club XVII [1918], p. 246—252.)
- Morphology and development of *Agaricus Rodmani*. (Proceed. Am. Philos. Soc. LIV [1915], p. 309—343, Pl. VII—XIII, Fig. 1—8.)
- Origin and Development of the Lamellae in *Coprinus*. (Bot. Gazette LXI [1916], p. 89—130, Pl. V—XII and six diagrams.)
- The development of *Lepiota cristata* and *L. seminuda*. (Mem. N. Y. Bot. Gard. VI [1916], p. 209—228, Pl. XXI—XXVI.)
- Preliminary notes on some new species of agarics. (Proceed. Amer. Philos. Soc. LII [1918], p. 354—356.)
- The genus *Endogone*. (Mem. Brooklyn Bot. Gard. I [1918], p. 1—17.)
- The genus *Galerula* in North America. (Proceed. Amer. Philos. Soc. LVII [1918], p. 357—374.)
- Relationships within the Rhodosporeae. (Bot. Gazette LXVII [1919], p. 266—267.)
- Babeock, D. C.** Mushrooms-edible and poisonous. (Ohio Agric. Stat. Circ. CLIII [1915], p. 89—92, Fig. 1—3.)
- Baden, Margaret L.** Observations on the Germination of the Spores of *Coprinus sterquilinus*, Fr. (Ann. of Bot. XXIX [1915], p. 135—142, Pl. VII.)
- Bailey, J. F. and White, Cyril T.** Contributions to the Flora of Queensland. — Order Fungi. (Queensl. Agric. Journ. IV, Pt. 5 [Nov. 1915], p. 289.)
- Bailey, M. A.** *Puccinia malvacearum* and the Mycoplasma Theory. (Ann. of Bot. XXXIV [1920], p. 173—200, 2 Figs.)
- Bal, S. N.** Commentationes Mycologicae. V. *Vermicularia Jatrophae* Speg., on *Jatropha integerrima*. (Journ. Departm. Sci. Calcutta Univ. II [1920], p. 31—32, 1 Pl.)
- Bal, S. N. and Chaudhury, H. P.** Commentationes Mycologicae. VII. A short study of *Plicaria repanda* (Wahl) Rehm on *Borassus flabellifer* Linn. (Journ. Departm. Sci. Calcutta Univ. II [1920], p. 35—36, 1 Pl.)
- Barbier, Maurice.** Description de deux espèces de Champignons. (Bull. Soc. mycol. France XXXI [1915], p. 53—54, Pl. V.)

- Barbier, Maurice.** *Tricholoma lilacinum* Gillet n'est-il pas synonyme de *Inocybe geophila*, variété *violaceus* Pétouillard? (Bull. Soc. mycol. France XXXV [1919], p. 198—200.)
- Barnhart, J. H.** Bibliography: N. Am. Flore IX (1916), p. 427—459. (Includes the families Agaricaceae, Boletaceae and Polyporaceae.)
- Bartram, H. E.** A study of the brown rot fungus in northern Vermont. (Phytopathology VI (1916), p. 71—78.)
- Bataille, Frédéric.** *Cortinarius suaveoleus* Bataille et Joachim nov. spec. (Bull. Soc. mycol. France XXXVI [1920], p. 85—86.)
- Flore monographique des Marasmes d'Europe. (Bézançon 1919. 34 pp.)
- Découverte en France d'une nouvelle station du *Phallus impudicus* var. *imperialis* (Schulz.) Lloyd. (Bull. Soc. mycol. France XXXIV [1918], p. 195—197.)
- Beardslee, H. C.** *Boletus rubinellus*. (Lloyd, C. G.: Mycological Notes XL [1916], p. 543—544, Fig. 745.)
- Notes on a few species of Asheville Fungi. (Mycologia IX [1917], p. 30—33, Pl. 1V.)
- A new species of *Amanita*. (Journ. Elisha Mitchell Soc. XXXIV [1919], p. 198—199, Pl. XXX—XXXI.)
- Bensaude, Mlle. M.** Recherches sur le cycle évolutif et la sexualité chez les Basidiomycètes. (Rev. gén. de Bot. 1918. 12 Pl.)
- Bernink, J. B.** Eerst weten-dan cten. Een inleiding tot de studie der paddenstoelen. (Almelo 1920. 80 pp. met 10 Textfiguren en 30 gekleurde tafels.)
- Berry, Edward W.** Remarkable Fossil Fungi. (Mycologia VIII (1916), p. 73—79, Pl. CLXXX—CLXXXII.)
- Bessey, Ernst A.** An undescribed species of *Ophiodothella* on *Ficus*. (Mycologia XI (1919), p. 55—57, Plate V) — *Ophiodothella Fici* spec. nov.
- Bessey, Ernst A. and Thompson, Bertha E.** An undescribed *Genea* from Michigan. (Mycologia XII (1920), p. 282—285, Pl. XX)
- Bezssonoff.** Sur l'obtention expérimentale de la sexualité chez les champignons et orientée sur la Structure typique du plasma sexuel. (Compt. Rend. Acad. Sci. Paris CLXX [1920], p. 288—290)
- Bianchi, Giovanni.** Micologia della Provincia di Mantova. III. contributo. (Atti Ist. Bot. Univ. Pavia, Ser. II, XIV [1914], p. 53—64.)
- Biers, P. M.** Nouveaux cas de superposition chez les Champignons. (Bull. Soc. mycol. France XXXI (1915), p. 14—19, 2 Fig.)
- Recherches sur la longévité des spores chez certaines espèces de Mucorinées. (Bull. Mus. d'hist. nat. 1918, Nr. 4.)
- Bijl, Paul A van der.** Studies on some fungi and the deterioration of sugar. (Science Bull. Union of South Africa Departm. Agric. Nr. 18 [Cape Town 1920], 19 pp.)
- Blackman, V. H. and Welsford, E. J.** Studies in the physiology of parasitism. II. Infection by *Botrytis cinerea*. (Ann. of Bot. XXX [1916], p. 389—398, Pl. X, 2 Figs.)
- Blakeslee, A. F.** Sexual reactions between hermaphroditic and dioecious Mucors. (Biol. Bull. XXIX [1915], p. 87—102, Pl. I—III, Fig. 1—2.)
- Zygosporcs and Rhizopus for class use. (Science 2. Ser. XLII [1915], p. 768—770.)
- Blasdale, Walter C.** A preliminary List of the Uredinales of California. (Univ. California Publ. VII [1919], p. 101—157)
- Boquet, A. et Nègre, L.** Polymorphisme et déterminisme morphogénique du Cryptocoque de Rivolta. (Ann. Inst. Pasteur tome XXXIV [1919], p. 184—190.)
- Bose, S. R.** One new species of Polyporaceae and some Polypores new to Bengal. (Ann. Mycol. XIX [1921], p. 129—131.)

- Bose, S. R.** Fungi of Bengal. (Bull. Carmichael Medical College Belgachia Nr. 1 [1920], p. 1—5, Pl. I—XII.)
- [Descriptions of Fungi in Bengal. (Agaricaceae and Polyporaceae.) (Proceed. Indian. Assoc. Cultivation Sci. IV [1918], p. 109—114, Pl. I—XI.)
- Boudier, Emile.** Dernières étincelles mycologiques. (Bull. Soc. mycol. France XXXIII [1917], p. 7—22, Pl. I—VI.)
- Boughton, F. S.** Hymenomycetae of Rochester, N. Y., and vicinity. (Proceed. Rochester Acad. Sci. V [1917], p. 100—119.)
- Bourdot, l'Abbé H. et Galzin, A.** Hyménomycètes de France. — VI. Astérostromés. (Bull. Soc. mycol. France XXXVI [1920], p. 43—47.)
- Bourdot, H. et Maire, L.** Notes critiques sur quelques Hyménomycètes nouveaux ou peu connus. (Bull. Soc. mycol. France XXXVI [1920], p. 69—85, 1 Fig.)
- Boyce, J. S.** Spore variation in *Neopeckia Coulteri*. (Phytopathology VI [1916], p. 357—359.)
- *Pycnia* of *Cronartium pyriforme*. (Phytopathology VI [1916], p. 445—447.)
- Perennial mycelium of *Gymnosporangium Blasdaleanum*. (Phytopathology VIII [1918], p. 161—162.)
- Boyer, G.** Etudes sur la biologie et la culture des Champignons supérieurs. (Thèses sciences, Bordeaux, 1918.)
- Etudes sur la biologie et la culture des champignons superieurs. (Mém. Soc. Sci. Phys. Nat. Bordeaux VII [1918], p. 233—244, 4 Pl. 20 Figs.)
- Oidium du chêne et production truffière. (Bull. Soc. Bot. mycol. France XXX [1914], p. 436—437.) — Réponse à M. le Dr. Desgardes.
- Brenckle, J. F.** North Dakota Fungi I. (Mycologia IX [1917], p. 275—293.)
- *Lamprospora detouia* sp. nov. (Mycologia VIII [1916] p. 318.)
- Bresadola, G.** Mycetes apud *Chiovenda*. Le piante raccolte dal Dr. Nello Beccari in Eritrea nel 1905. (Nuov. Giorn. Bot. Ital. XXVI [1919], p. 113—114.)
- *Selecta mycologica*. (Ann. mycol. XVIII [1920], p. 26—70.)
- Brierley, William B.** The Microconidia of *Botrytis cinerea* Studies from the Pathological Laboratory VII. (Kew Bull. 1918), p. 129—146, 1 Plate.)
- On Cell-Regeneration in *Botrytis cinerea*. (Ann. of Bot. XXXII [1918], p. 601—604, 1 Fig.)
- The „Endoconidia“ of *Thielavia basicola* Zopf. (Ann. of Bot. XXIX [1915], p. 483—493, Pl. XXIII.)
- Spore germination in *Onygena equina* Willd. (Ann. of Bot. XXXI [1917], p. 127—132.)
- Some concepts in Mycology an attempt at synthesis. (Transact. Brit. Mycol. Soc. VI [1919], p. 204—235.)
- On a form of *Botrytis cinerea*, with colourless sclerotia. (Physiol. Transact. Roy. Soc. London Ser. B. Vol. CCX, p. 83—114, 5 Pl.)
- Brown, William.** Studies in the Physiology of Parasitism. I. The Action of *Botrytis cinerea*. (Ann. of Bot. XXIX [1915], p. 313—348.)
- Studies in the Physiology of Parasitism. III. On the relation between the „Infection Drop“ and the underlying Host Tissue. (Ann. of Bot. XXX [1916], p. 399—406.)
- Studies in the Physiology of Parasitism. IV. On the Distribution of Cytase in Cultures of *Botrytis cinerea*. (Ann. of Bot. XXXI [1917], p. 489—498.)
- Brown, W. H.** The fungi cultivated by termites in the vicinity of Manila and Los Baños. (Philip. Journ. Sci. XIII, Botany [1918], p. 223—231, Pl. III—IV.)
- Bruner, Stephen C.** A new species of *Endothia*. (Mycologia VIII [1916], p. 239—242. Pl. 192.)

- Bucholtz, F. und Ekmann, O.** Über die Verbreitung der Brandpilze (*Ustilagineae*) im Ostbaltikum. (Sitzungsber. Naturf. Ges. Dorpat XXVI [1918—19], p. 47—70.)
- Buller, A. H. R.** Micheli and the discovery of reproduction in fungi. (Transact. Roy. Soc. Canada III [1915], p. 1—25, Pl. I—III.)
- Burgell, H.** Sexualität und Parasitismus bei *Mucorineen*. (Ber. Deutsch. Bot. Gesellsch. XXXVIII [1920], p. 318—327, 1 Abb. im Text.)
- Burger, O. F.** Variations in *Colletotrichum gloeosporioides*. (Journ. Agric. Research Washington XX [1921], p. 723—736, Pl. 86.)
- Sexuality in *Cunninghamella*. (Bot. Gaz. LXVIII [1919], p. 134—146.)
- Burlingham, Gertrude S.** New species of *Russula* from Massachusetts. (Mycologia X [1918], p. 93—96.)
- Methods for satisfactory field work in the genus *Russula*. (Mycologia IX [1917], p. 243—247.)
- A preliminary report on the *Russulae* of Long Island. (Mem. Torrey Club XVII [1918], p. 301—306.)
- Burt, Edward Angus.** The *Thelephoraceae* of North America XII. (Ann. Missouri Bot. Gard. VII [1920], p. 81—248, Pl. VI.)
- Carbone, Domenico.** Descrizione di alcuni Eumiceti provenienti da carni insaccate sane. (Atti Ist. Bot. Univ. Pavia II. Ser. XIV [1914], p. 259—325.)
- Cavers, F.** The Inter-Relationships of Protista and primitive Fungi. (New Phytologist XIV [1915], p. 94—104, 1 Fig.; p. 164—168, Fig. 2; p. 223—227, Fig. 4—5; p. 275—280; p. 302—304.)
- Cayley, Dorothy M.** Some observations on the Lifehistory of *Nectria galligena* Bres. (Ann. of Bot. XXXV [1921], p. 79—92, Pl. IV—V.)
- Chardon, Carlos E.** A List of the *Pyrenomycetes* of Porto Rico collected by H. H. Whetzel and E. W. Olive. (Mycologia XII [1920], p. 316—321.)
- Chaudhury, H. P.** Commentationes Mycologicae. VI. *Phyllosticta glycosmidis* Sydow and Butler on *Glycosmis pentophylla* Carr. (Journ. Departm. Sci. Calcutta Univ. II [1920], p. 33—34, 1 Pl.)
- Chenais, J. E.** Études sur les *Pyrénomycètes* (Suite). (Bull. Soc. mycol. France XXXV [1919], p. 46—98, 15 Fig.)
- Recherches sur les *Pyrénomycètes*. (Suite et Fin.). (Ibidem p. 113—139, Fig. 16—25, Pl. I—VI.)
- Deux *Mucédinées*. (Ibidem p. 200—210, Pl. XVIII.)
- Études sur les *Pyrénomycètes* (Suite). (Bull. Soc. mycol. France XXXIV [1918], p. 123—136, Fig. 7.)
- Sillon et Pores germinatifs. (Bull. Soc. mycol. France XXXVI [1920], p. 29—33, 1 Textfig.)
- Chiffot, J.** Sur le *Clathrus cancellatus* Tournef. (Bull. Soc. mycol. France XXXII [1916], p. 55—58, 2 Fig.)
- Sur un cas de rubéfaction de la face, tendant à se généraliser à la suite de l'ingestion du *Coprinus atramentarius* Fr. (Ibidem p. 63.)
- Childs, L.** New facts regarding the period of ascospore discharge of the apple scab fungus. (Oregon Agric. Experim. Stat. Bull. 143 [1917], 11 pp.)
- Chipp, T. F.** A List of the Fungi of the Malay Peninsula. (The Gardens Bull. Straits Settlements II, Nr. 9—11 [1921], p. 311—418.)
- Chivers, A. H.** A monograph of the genera *Chaetomium* and *Ascotricha*. (Mem. Torrey Bot. Club XIV [1915], p. 155—240, Pl. VI—XVII.)
- An epidemic of Rust. on Mint. (Mycologia IX [1917], p. 41—42.)

- Church, A. H.** Elementary Notes on the Morphology of Fungi. (Botanical Memoirs Nr. 7 [1920] Oxford University Press, 29 pp.)
- Coker, W. C.** The Lactarias of North Carolina. (Journ. Elisha Mitchell Scientific Society XXXIV [1918], p. 1—61. Pl. I—XL.)
- Notes on the lower Baridiomycetes of North Carolina. (Ibidem XXXV [1920], p. 113—182, Pl. XXIII and XXX—LXVII.)
- The Hydnums of North Carolina (Journ. Elisha Mitchell Scientif. Soc. XXXIV [1919], p. 163—197, Pl. I—XXIX.)
- Coleman, D. A.** Environmental factors influencing the activities of soil fungi. (Soil Sci. II [1916], p. 1—66, Fig. 1—10.)
- Cook, M. T.** Common diseases of apples, pears and quinces. (New Jersey Agric. Experim. Stat. Circ. LXXX (1917), 27 pp, 23 Figs.)
- Common diseases of beans and peas. (Ibidem Circ. LXXXIV [1917], 8 pp. 4 Figs.)
- Common diseases of the peach, plum and cherry. (New Jersey Agric. Experim. Stat. Circ. LXXXI [1917], 19 pp, 11 Figs.)
- Report of the department of plant pathology. (New Jersey Agric. Experim. Stat. Rept 1915 [1916], p. 365—394, Pl. I—V)
- Common diseases of berries. (Ibidem Circ. LXXXVIII [1917], 11 pp, 6 Fig.)
- Common diseases of garden vegetables and truck crops. (Ibidem Circ. LXXXIX [1917], 22 pp, 12 Fig.)
- The Pathology of Ornamental Plants (Bot. Gaz. LXI [1916] p. 67—69.)
- The study of plant diseases in the high school. (School Sci. and Math. XVI [1916], p. 351—353.)
- Potato diseases in New Jersey. (New Jersey Agric. Exp. Stat. Circ. no. 105 [1919], 38 pp, 19 Figs.)
- Report of the department of plant pathology. (Ibid. Ann. Rep. XXXVIII [1917], p. 523—563, Pl. I—VI.)
- Common diseases of beans. (New Jersey Agric. Experim. Stat. Circ. L [1916], p. 1—4.)
- Cook, M. T. and Helyar, J. P.** Diseases of grains and forage crops. (New Jersey Agric. Exp. Stat. Circ. LI [1916], 8 pp.)
- Diseases of grains and forage crops. (Ibidem Circ. CII [1918], p. 1—16, Pl. I—IV.)
- Cook, M. T.** A Nectria parasitic on Norway maple. (Phytopathology VII [1917], p. 313—314.)
- Cook, M. T. and Martin, W. H.** Diseases of tomatoes. (New Jersey Agric. Experim. Stat. Circ. LXXI [1917], 8 pp., 6 Fig.)
- Leaf blight of the tomato. (Ibidem Circ. no. XCVI [1918], 4 pp.)
- Cook, M. T. and Lint, H. C.** Potato diseases in New Jersey. (New Jersey Agric. Experim. Stat. Circ. LIII [1916], p. 1—23, Fig. 1—9.)
- Cook, M. T. and Schwarze, C. A.** Two interesting diseases of greenhouse tomatoes. (Phytopathology VI [1916], p. 364—366, 1 Fig.)
- Cook, M. T. and Wilson, G. W.** The influence of ether on the growth of *Endothia*. (Bot. Gaz. LX [1915], p. 412—413.)
- The influence of the tannin content of the host plant on *Endothia parasitica* and related species. (Ibidem p. 346—361.)
- Cortini, Jone Comanducci.** Il „*Fusicladium Cerasi*“ sulle pesche. (Bollettino mensile di Informazioni e Notizie, R. Staz. di Patol. veget. Roma I [1920], p. 107.)
- Cotton, A. D.** Cryptogams from the Falkland Islands collected by Mrs. Vallentin. (Journ. Linn. Soc. London Bot. LXIII [1915], p. 137—231, Pl. IV—X.)

- Dangeard, P. A.** Note sur les corpuscules métachromatiques des levures. (Bull. Soc. mycol. France XXXII [1916], p. 27—32.)
 — La métachromatine chez les Mucorinées. (Ibidem p. 42—46.)
 — Observations sur le chondriome des Saprolegnia, sa nature, son origine et ses propriétés. (Ibidem p. 87—96.)
- Dastur, Jeëangir Fardunji.** Gytology of *Tilletia Triticis* (Bjerk.) Wint. (Ann. of Bot. XXXV [1921], p. 399—407, Pl. XX. Textfig. 1—7.)
- Dearness, John.** New or noteworthy species of Fungi. (Mycologia VIII [1916], p. 98—107.)
 — New or noteworthy North American Fungi. (Mycologia IX [1917], p. 345—364.)
- Dey, P. K.** Studies in the Physiology of Parasitism. V. Infection by *Colletotrichum Lindemuthianum*. (Ann. of Bot. XXXIII [1919], p. 305—312, Pl. XXI.)
- Dickson, B. T.** *Onygena equina* (Wild.) Pers. (Mycologia XI [1920], p. 289—291, 1 Fig.)
- Diehl, W. W.** Notes on artificial culture of *Rhizoctonia crocorum*. (Phytopathology VI [1916], p. 336—340.)
- Dodge, B. O.** Studies in the genus *Gymnosporangium* I. Notes on the distribution of the mycelium, buffer cells, and the germination of the aecidiospore. (Brooklyn Bot. Gard. Mem. I [1918], p. 128—140, Pl. I. Fig. 1—5.)
 — Studies in the genus *Gymnosporangium*. II. Report on cultures made in 1915 and 1916. (Bull. Torrey Club XLV [1918], p. 287—300, Pl. VIII.)
 — Studies in the Genus *Gymnosporangium*. III. The Origin of the Teleutospore. (Mycologia X [1918], p. 182—193, Pl. IX—XI.)
- Dodge, B. O. and Adams, J. F.** Notes relating to the *Gymnosporangia* on *Myrica* and *Comptonia*. (Mycologia IX [1917], p. 23—29, Plate II—III and 9 Figs.)
 — — Some observations on the development of *Peridermium Cerebrum*. (Mem. Torrey Club XVII [1918], p. 253—261, Pl. IV—VI, Fig. 1—3.)
- Dodge, B. O.** The Life History of *Ascobolus magnificus*, Origin of the Ascocarp from two Strains. (Mycologia XII [1920], p. 115—134, Plates VII—VIII, 28 Figures.)
- Doidge, Miss Ethel M.** A study of South African Perisporiales. (Transact. Roy. Soc. South Africa V [1917], p. 1—6.)
- Doran, W. L.** The minimum, optimum, and maximum temperatures of spore germination in some Uredinales. (Phytopathology IX [1919], p. 392—402, Fig. 1.)
- Dosdall, L.** Overwintering of the aecio spores of *Cronartium ribicola* Fisher. (Phytopathology VIII [1918], p. 619.)
- Douglass, H. B.** Mushroom poisoning. (Torrey XVII [1917], p. 171—175; [1918], p. 207—221.)
- Duff, G. H.** Some factors affecting viability of the urediniospores of *Cronartium ribicola*. (Phytopathology VII [1918], p. 289—292, 1 Fig.)
- Dufour, Léon.** Annamites et Amanites. (Bull. Soc. mycol. France XXXIV [1918], Ibidem p. 202—204.)
 — Les stations du *Physomitra esculenta* dans la forêt de Fontainebleau. (Bull. Soc. mycol. France XXXV [1919], p. 142—143.)
- Dufour, Léon et Michel, R.** Une année de récolte de Champignons dans la forêt de Fontainebleau. (Ibidem p. 151—159.)
- Dufrenoy, J.** Les conditions écologiques du développement des champignons parasites.
 — Etude de géographie botanique. (Bull. Soc. mycol. France XXXIV [1918], p. 8—25.)
 — Une Sphériacée parasite des feuilles d'Arbousier. (Ibidem p. 99—100, 1 Fig.)
 — Diversité écologique et Coefficients génériques. (Bull. Soc. mycol. France XXXV [1919], p. 27—46.)

- Dufrénoy, Jean.** The endotrophic Mycorrhiza of Ericaceae. (New Phytologist XVI [1917], p. 222—228, Fig. I—IV.)
 — The occurrence of Actinomyces-Like endotrophic Mycorrhiza (Ibidem XIX [1920], p. 40—43, 5 Figs.)
- Dumée, P.** Notes de Mycologie pratique (Suite) V. Note sur les Polyporus ulmarius Sow. et Polyporus fraxineus Bull. (Bull. Soc. mycol. XXXIII [1917], p. 28—32.)
 — Notes de Mycologie pratique (Suite) VI. Le Tricholoma rutilans Schaef. et espèces voisines. (Ibidem p. 100—103.)
 — Quelques mots sur le Nidularia confluens Fr. (Bull. Soc. mycol. France XXXIV [1918], p. 97—98.)
 — Notes de mycologie pratique. (Bull. Soc. mycol. France XXXII [1916], p. 74—86.)
 — A propos d'une note de M. Bergamasco sur l'identité des Volvaria speciosa Fr. et Volvaria gloiocephala (DC.) Fr. parue en février 1915 dans le Bulletin de la Société botanique italienne. (Bull. Soc. mycol. France XXXI [1915], p. 29—30.)
 — De l'identité probable des Tricholoma melaleucum Pers., grammopodium Bull., accuatum Bull., brevipes Bull. et humile Fr. (Ibidem p. 63—67, 1 Fig.)
- Durand, Elias J.** Peziza Proteana var. sparassoides in America. (Mycologia XI [1919], p. 1—3, Pl. I.)
- Duvernoy, A. et Maire, R.** Une nouvelle Dématinée à conidies pseudo-endogènes. (Bull. Soc. mycol. France XXXVI [1920], p. 86—89, 1 Fig.)
- Eckardt, W. R.** Der Kaiserling (Amanita caesarea) an der bayrisch-meiningischen Grenze. (Mitteil. Thür. Bot. Ver. Weimar N. F. XXXV [1921], p. 25—26.)
- Edgerton, C. W.** A new Balsania on Cyperus. (Mycologia XI [1919], Nr. 5, p. 259—261, Pl. XII.) — Balsania Cyperi sp. nov.
- Eltving, K. O.** Cronartium peridermium Strobila Kleb. auf Pinus Cembra in Finnland gefunden. (Acta forestalia fennica IV, Nr. 4 [Helsingforsia 1915], 2 pp., 1 Fig.)
- Ellen, Sister M.** The Germination of the Spores of Conocephalum conicum. (Amer. Journ. of Bot. VII [1920], p. 458—464, Pl. XXXIV—XXXV.)
- Elliott, W. T. and Elliott, Jessie, S.** The sequence of Fungi and Mycetozoa. (Journ. of Bot. LVIII [1920] p. 273—274.)
- Eriksson, J.** Studien über Puccinia caricis Reb., ihren Wirtswechsel und ihre Spezialisierung. (Arkiv f. Bot. XVI [1921], Nr. 11, p. 1—64, 4 Textfig.)
- Evans, J. B. Pole.** Teff Rust. (Uromyces pedicellata Pole Evans). (Kew Bull. 1918, p. 228—229, 1 Fig.)
- Fairman, Charles E.** Notes on new species of Fungi from various Localities II. (Mycologia X [1918], p. 164—167.)
 — New or noteworthy Ascomycetes and Lower Fungi from New Mexico. (Mycologia X [1918], p. 239—264.)
- Falck, Kurt.** Mykogeografiska Anteckningar från Medelpad (Svensk Bot. Tidskr. XIV [1920], p. 223—231, 2 Fig.)
- Fault, J. H.** Pineapple Fungus or „Enfant de Pin“ on Wabadon. (Mycologia XI [1919], Nr. 5, p. 267—272.)
- Fawcett, H. S.** Preliminary note on the relation of temperature to the growth of certain parasitic fungi in cultures. (John Hopkins Univ. Circ. 293 [1917], p. 193—194.)
- Ferdinandson, C. et Winge, Ö.** Uromyces Airae-flexuosae sp. n. (Bull. Soc. mycol. France XXXVI [1920], p. 162—164, 2 Figs.)
 — — A Phyllochorella parasitic on Sargassum. (Mycologia XII [1920], p. 102—103, 2 Fig.)
- Fink, Bruce.** The distribution of fungi in Porto Rico. (Mycologia X [1918], p. 58—61.)
- Fink, Bruce and Fuson, S. C.** Ascomycetes new to the flora of Indiana. (Proceed. Indiana Acad. Sci. [1918] 1919, p. 264—275.)

- Fisher, O. E.** Mushroom poisoning. In Kauffman, C. H. . The Agariceae of Michigan. (Michig. Geol. and Biol. Surv. XXVI [1918], p. 825—864.)
- Fitzpatrick, Harry M.** The development of the Ascocarp of *Rhizina undulata* Fr. (Bot. Gazette LXIII [1917], p. 282—296, Pls. XVII—XVIII.)
- Monograph of the Coryneliaceen. (Mycologia XII [1920], p. 206—237, Plates XII—XVIII and 1 Table, p. 239—267.)
- *Rostronitschkia*, a new genus of Pyrenomycetes. (Mycologia XI [1919], Nr. 4, p. 163—167, Pl. II.)
- Sexuality in *Rhizina undulata* Fries. (Bot. Gaz. XLV [1918], p. 201—226, Pl. III—IV.)
- The life history and parasitism of *Eocronartium muscicola*. (Phytopathology VIII [1918], p. 197—218, Pl. 1, 4 Fig.)
- Fraser, W. P.** Overwintering of the apple scab fungus. (Science 2. ser. XLVI [1917], p. 280—282.)
- Cultures of *Puccinia Clematides* (DC.) Lagerh. and *P. Impatientis* (Schw.) Arth. (Mycologia XII [1920], p. 291—295.)
- Fries, Thore E. C.** Sveriges Tulostomaarter. (Bot. Notiser för Ar 1921, p. 33—36, 1 Fig.)
- Gäumann, Ernst.** Die Verbreitungsgebiete der schweizrischen Peronospora-Arten. (Mitteil. Naturf. Gesellsch. Bern 1919 [1920], p. 176—187.)
- Les espèces de Peronospora sur les Euphorbiacées et les Polygonacées. (Ann. Conserv. Jard. Bot. Genève XXI [1919], p. 1—23.)
- Ein kleiner Beitrag zur Pilzflora des Krakatau. (Bull. Jard. Bot. Buitenzorg 3 sér. II [1921], p. 8—9.)
- Über *Coelographium duranticum*. (Ibidem p. 10—14.)
- Mykologische Mitteilungen I. (Bull. Jard. Bot. Buitenzorg 3. Ser. III [1921], p. 121—127, Fig. 1—4.)
- Garbowski, L.** Sclerospora macrospora Sacc. sur le blé, en Podolie (Russie). (Bull. Soc. mycol. France XXXIII [1917], p. 33.)
- Les champignons parasites recueillis dans le gouvernement de Podolie (Russie), pendant l'été 1915. (Ibidem p. 73—91, Fig. 1—4.)
- Gates, Frank C.** The influence of ether on the growth of *Endothia*. (Bot. Gazette LX [1915], p. 412—414.)
- Gilkey, Helen M.** Two new Truffles. (Mycologia XII [1920], p. 99—101.)
- Gleisberg, W.** Zur Revision der Gattung *Pestalozzia* De Not. (Ber. d. Deutsch. Bot. Ges. XXXIX [1921], p. 79—83, 1 Abb. im Text.)
- González-Fragoso, Romualdo.** La Roya de los Vegetales. — Enumeración y Distribución geográfica de los Uredales conocidos hasta hoy en la Peninsula Ibérica e Islas Baleares (Junta para Ampliación de Estudios e Investigaciones Científicas Madrid. Serie Botánica Nr. 15 [1918], 267 pp. 8°.)
- Contribución a la Flora Micológica del Guadarrama-Pirenales, Histeriales, Discuales. (Junta para Ampliación de Estudios e Investigaciones científicas. Serie Botánica Nr. 4 [1914], 31 pp. 8°.)
- Uredales. (Ibidem Nr. 3 [1914], 44 pp. 12 Fig. 8°.)
- Deuteromicetos. (Ibidem Nr. 5 [1914], 42 pp. 12 Fig. 8°.)
- Teleomicetos y Deuteromicetos (Adiciones). (Ibidem Nr. 7 [1914], 80 pp. Fig. 7. 8°.)
- Micromicetos varios de España y de Cerdeña. (Trab. Mus. Nac. Cienc. Nat. Ser. Bot. Nr. 9 [1916], 115 pp.)
- Bosquejo de una Flórua Hispalense de Micromicetos. (Ibidem Nr. 10 [1916], 221 pp.)

- Gonzalez-Fragoso, R.**, Fungi novi vel minus cogniti horti Botanici Matritensis lecti ab Arturo Caballero. (Ibidem Nr. 12 [1917], 99 pp.)
- Quelques mots sur une nouvelle Lophiostomacée. (Bull. Soc. mycol. France XXXVI [1920], p. 103—106, 2 Figs.)
- Graft, Paul W.** Basidiomycetes collected in Indo-China by C. B. Robinsen. (Mycologia VIII [1916], p. 214—217.)
- Philippine micromycetous fungi. (Mem. Torrey Club XVII [1918], p. 56—73.)
- Bibliography and new species of Philippine Fungi. (Mycologia VIII [1916], p. 253—288.)
- Fungi in Merrill, E. D. An enumeration of the plants of Guam. (Philipp. Journ. Sci. Bot. IX [1916], p. 37—40.)
- Fungi and Lichens from the Island of Guam. (Mycologia IX [1917], p. 4—22.)
- Philippine Basidiomycetes III. (Bull. Torrey Club XLV [1918], p. 451—469, Pl. XV.)
- Gravatt, G. F. and Marshall, R. P.** Arthropods and gasteropods as carriers of *Cronartium ribicola* in greenhouses. (Phytopathology VII [1917], p. 368—373.)
- Graves, Arthur Harmount.** Chemotropism in *Rhizopus nigricans*. (Bot. Gazette LXII [1916], p. 337—369, 4 Figs.)
- Grelet, l'abbé L.-J.** Un discomycète nouveau, le *Trichophaea Boudieri* sp. nov. (Bull. Soc. mycol. France XXXIII [1917], p. 94—96, Pl. VII.)
- Grove, W. B.** Fungi exotici XX. (Kew Bull. 1916, p. 71—77, Pl. IV, 4 Textfig.)
- Fungi exotici XXI. (Ibidem p. 269—272, 5 Textfig.)
- *Rhizophidium acuforme* (Zopf) Fisch. (New Phytologist XVI [1917], p. 177—180.)
- New or noteworthy Fungi Part VI. (Journ. of Bot. LVI [1918], p. 285—294, p. 314—321, Plate 550; p. 340—346.)
- Species placed by Saccardo in the genus *Phoma*. (Kew Bull. 1919, Nr. 4, p. 177—201.)
- The British species of *Melanconium*. (Kew Bull. 1918, p. 161—178, 13 Fig.)
- Mycological Notes V. (Journ. of Bot. LVIII [1920], p. 249—251; to be cont.)
- *Roesleria pallida*, Sacc. (Ann. of Bot. XXX [1916], p. 407—414, 11 Figs.)
- The British species of *Phomopsis*. (Kew Bull. [1917], p. 49—73, Pl. I—II.)
- Species placed by Saccardo in the Genus *Phoma*. Part. III. (Kew Bull. 1921, p. 136—157, 8 Figs.)
- Gscheidle, A.** Stiefkinder unter den Pilzen. (Der Pilz- und Kräuterfreund IV [1921], p. 169—170.)
- Guégan, Marcel.** Quelques remarques sur deux champignons communs. (Bull. Soc. mycol. France XXXIV [1918], 110.)
- Guilliermond, A.** *Zygosaccharomyces Nadsonii*: Nouvelle espèce de levures à conjugaison hétérogamique. (Bull. Soc. mycol. France XXXIV [1918], p. 111—122, Pl. IV—VII.)
- Guilliermond, A. et Péjou.** Une nouvelle espèce de levures du genre *Debaryomyces*. (Bull. Soc. mycol. France XXXVI [1920], p. 164—171, Pl. VI—X.)
- Gustafson, F. G.** Comparative studies on respiration II. The effect of anesthetics and other substances on the respiration of *Aspergillus niger*. (Journ. Gen. Physiol. I [1918], p. 181—191, 5 Figs.)
- Comparative studies on respiration — IX. The effect of antagonist salts on the respiration of *Aspergillus niger*. (Journ. Gen. Physiol. II [1919], p. 17—24, 3 Figs.)
- Hadden, Norman G.** The Uredineae of West Somerset. (Journ. of Bot. LVIII [1920], p. 37—39.)
- Haenseler, C. M.** The effect of salt proportions and concentrations on the growth of *Aspergillus niger*. (Amer. Journ. Botany VIII [1921], p. 147—163.)

- Halsted, B. D.** Report of the department of botany. (New Jersey Agric. Experim. Stat. Ann. Rep. XXXVII [1916], p. 433—463, Pl. I—II.)
- Hansen, A. H.** Sandy sporophores. (Torreya XVII [1917], p. 55—58, 2 Figs.)
- Hariot, P.** Quelques observations mycologiques. (Bull. Soc. mycol. France XXXI [1915], p. 55—60.)
- Harper, E. T.** Two remarkable Discomycetes. (Bull. Torr. Bot. Club XLV [1918], p. 77—86, Pl. I—III.)
- The *Clavaria fistulosa* Group. (Mycologia X [1918], p. 53—57, Pl. III—V.)
- Two parasitic mushrooms. (Mycologia VIII [1916], p. 65—72, Pl. 177—179.)
- *Hypholoma aggregatum* and *H. delineatum*. (Mycologia X [1918], p. 231—234, Pl. XII.)
- Harschberger, John W.** A Text-Book of Mycology and Plant Pathology. (London T. et A. Churchill 1918, 271 illustrations.)
- Harter, L. L.** Amylase of *Rhizopus Tritici*, with a consideration of its secretion and action. (Journal of Agric. Research Washington Vol. XX [1921] p. 761—786.)
- Hartley, C.** *Rhizoctonia* as a needle fungus. (Phytopathology VIII [1918], p. 62.)
- Hasler, Alfred.** Über die Entwicklungsgeschichte einiger Rostpilze. (Centralbl. f. Bakteriologie 2. Abt. LIV [1921], p. 35—50, 2 Textfig.)
- Hedgcock, G. G.** Identity of *Peridermium montanum* with *Peridermium acicolum*. (Phytopathology VI [1916], p. 64—67.)
- Hedgcock, George G. and Hunt, N. Rex.** *Dothichiza populea* in the United States. (Mycologia VIII [1916], p. 300—308, Pl. 94—95.)
- Hedgcock, George G. and Hahn, Glenn G.** New species and relationships in the genus *Coleosporium*. (Mycologia XII [1920] p. 182—198.)
- Hedgcock, Geo. G. and Hunt, N. Rex.** New species of *Peridermium*. (Mycologia IX [1917], p. 239—242.)
- Hemmi, Takewo.** On *Cyclodothis Pachysandrae*. (Tokyo Bot. Mag. XXIX [1915], p. 414. — Japanisch.)
- Higgins, B. B.** Morphology and life history of some Ascomycetes with special reference to the presence and function of spermatia. (Amer. Journ. of Bot. VII [1920], p. 435—444, Pl. XXX, 2 Textfig.)
- Hilbert, Ernst.** Der Winterpilz oder sammetfüßige Rübbling *Collybia velutipes* (Curt.). (Der Pilz- und Kräuterfreund IV [1921], p. 164—165.)
- Hirmer, Max.** Zur Kenntnis der Vielkernigkeit der Autobasidiomyceten. I. (Zeitschr. f. Botanik XII [1920], p. 657—674, Taf. V und 10 Textabb.)
- Hodgetts, William J.** On the forcible discharge of spores of *Leptosphaeria acuta*. (New Phytologist [1917], p. 139—146, 15 Figs.)
- *Uronema elongatum*, a new freshwater member of the Ulotrichaceae. (New Phytologist XVII [1918], p. 159—166, 11 Figs.)
- Höhnel, F.** Fragmente zur Mykologie XXIII. Mitteilung (Nr. 1154—1188). (Sitzungsber. Akad. Wiss. Wien, math.-natw. Kl., Abt. I, Bd. CXXVIII [1919], p. 335—625.)
- Mykologische Fragmente (Forts.). (Ann. Mycol. XVIII [1920], p. 71—97.)
- Hoerner, G. R.** Biologic forms of *Puccinia coronata* on oats. (Phytopathology IX [1919], p. 309—314, Pl. XIX—XX.)
- Horne, Arthur S.** Diagnoses of Fungi from „Spotted“ Apples. (Journ. of Bot. LVIII [1920], p. 238—242.)
- Hotson, J. W.** Notes on bulbiferous fungi with a key to described species. (The Bot. Gazette LXIV [1917], p. 265—284, Plates XXI—XXIII, 6 Figs.)
- House, H. D.** Report of the State Botanist, 1915. (New York State Mus. Bull. 188 [1916], 117 pp. 4 Pls. 5 Figs.)

- House, H. D.** Report of the state Botanist, 1916. (New York State Mus. Bull. no. 197 [1918], 122 pp. 12 Fig.)
- The Peck Testimonial exhibit of Mushroom Models. (*Mycologia* IX [1917], p. 313—314.)
- Humphrey, H. B.** *Puccinia glumarum*. (*Phytopathology* VII [1917], p. 142—143.)
- Humphrey, C. J.** and **Fleming, R. M.** The toxicity to fungi of various oils and salts, particularly those used in wood preservation. (Bull. U. S. Dept. Agric. CCXXVII [1915], p. 1—38, Pl. I—IV.)
- Jackson, H. S.** The Uredinales of Oregon. (Mem. Brooklyn Bot. Gard. I [1918], p. 198—297.)
- The Uredinales of Indiana. (Proceed. Indiana Acad. Sci. [1917] 1918, p. 133—137.)
- The Ustilaginales of Indiana. (Ibidem p. 119—132.)
- New or noteworthy North American Ustilaginales (*Mycologia* XII [1920], p. 149—156.)
- Jagger, Ivan C.** *Sclerotinia minor*, n. sp., the cause of a decay of lettuce, celery, and other crops. (Journ. Agric. Research Washington XX [1920], p. 331—333, Pl. LIX.)
- Ichimura T.** A new poisonous mushroom. — *Clitocybe acromelalga*. (*Bot. Gazette* LXV [1918], p. 109—111, 3 Figs.)
- Jennings, O. E.** *Eocronartium muscicola* a fungus parasitic on moss. (*The Bryologist* XXII [1919], p. 73—74.)
- Johnston, J. R.** *Marasmius* on Sugar Cane. (*Mycologia* VIII [1916], p. 115.)
- Johnston, John, R.** and **Bruner, Stephen C.** A *Phyllachora* of the Royal Palm. (*Mycologia* X [1918], p. 43—44, Pl. II.)
- Juel, H. O.** Über *Hypthelia* und *Ostracoderma*, zwei von Fries aufgestellte Pilzgattungen. (*Svensk Bot. Tidskr.* XIV [1920], p. 212—222.)
- Kauffman, C. H.** The fungi of North Elba. (New York State Mus. Bull. 179 [1915], p. 80—104.)
- Unreported Michigan fungi for 1911, 1912, 1913 and 1914. (Rep. Michigan Acad. Sci. XVII [1916], p. 194—223.)
- Tennessee and Kentucky Fungi. (*Mycologia* IX [1917], p. 159—166.)
- *Isoachlya*, a new genus of the Saprolegniaceae. (*Am. Journ. of Bot.* VIII [1921], p. 231—237, Plate XIII.)
- Kaufmann, F.** Die in Westpreußen gefundenen Pilze der Gattungen *Panaeolus*, *Peathyrella*, *Coprinus*, *Bolbitus*. (42. Bericht Westpreuß. Bot. Zool. Ver [Danzig 1920], p. 11—24.)
- Kawamura, Seichi.** Studies on the luminous fungus *Pleurotus japonicus* sp. nov. (*Journ. Coll. Sci. Tokyo* XXXV [1915], p. 1—29, Pl. III.)
- Keene, M. L.** Studies of zygospore formation in *Phycomyces nitans* Kunze. (*Transact. Wisconsin Acad. Sci.* XIX [1919], p. 1195—1220, Pl. XVI—XVIII.)
- Keitt, G. W.** Simple technique for isolating single spore strains of certain types of fungi (*Phytopathology* V [1915], p. 266—269, 1 Fig.)
- Kern, Frank D.** North American Species of *Puccinia* on *Carex*. (*Mycologia* IX [1917], p. 205—242.)
- Kilian, Charles.** Sur la sexualité de l'Ergot de Seigle, le *Claviceps purpurea* (Tulasne). (*Bull. Soc. mycol. France* XXXV [1919], p. 182—197, Pl. X—XVII.)
- Kilian, Karl.** Über die Ursachen der Spezialisierung bei den Ascomyceten. I. Die *Monilia cinerea* der Kirschen. (*Centralbl. f. Bakt. usw.* II. Abt. LIII [1921], p. 560—597, 1 Tafel.)
- Kniep, Hans.** Über *Urocystis Anemones* (Pers.) Winter. (*Zeitschr. f. Botanik* XIII [1921], p. 289—311 Taf. III.)

- Kobel, Fritz.** Zur Biologie der Trifolien bewohnenden Uromyces-Arten. (Inaug. Dissert. Bern. (Centralbl. f. Bakt. usw. II. Abt. LII [1920], p. 215—235 3 Fig.)
- Einige Bemerkungen zu den Astragalus und Cytisus bewohnenden Uromyces-Arten. (Ann. Mycol. XIX [1921] p. 1—16.)
- Konrad, P.** Notes et observations concernant le *Tricholoma tigrinum* Sch. = *T. paradinum* G. (Bull. Soc. mycol. France XXXV [1919], p. 143—146.)
- Kopsloff, Nicholas, Lint, H. Clay and Coleman, David A.** A new method of separating Fungi from Protozoa and Bacteria. (Bot. Gazette LXI [1916], p. 247—250.)
- Kunkel, L. O.** A method of obtaining abundant sporulation in cultures of *Macrosporium solani* E. et M. (Torreya XVII [1917], p. 123.)
- Laibach, F.** Untersuchungen über einige Septoria-Arten und ihre Fähigkeit zur Bildung höherer Fruchtformen I. und II. (Zeitschr. f. Pflanzenkr. XXX [1920], p. 201—223, 12 Abb.)
- Untersuchungen über einige Ramularia- und Ovularia-Arten und ihre Beziehungen zur Askomyzetengattung *Mycosphaerella*. I. *Ramularia knautiae* (Massal.) Bubak. (Centralbl. f. Bakt. usw. II. Abt. LIII [1921], p. 548—560 12 Fig.)
- Lakowitz.** *Boletus Boudieri* Quel. (= *B. collinitus* Fr. = *B. fusipes* Heufl. [nach Ricken] = *B. placidus* Bonord. [nach Gramberg] Elfenbeinröhrling oder weißgelber Röhrling; neu für Westpreußen (42. Bericht Westpreuß. Bot.-Zool. Ver. [Danzig 1920], p. 25—26.)
- Laren, A. van.** Paddestoelen en herfsttontoonstelling te Amsterdam. (Onge Tuinen. Jaarg. 15. Nr. 19 [1920], p. 315—317, 3 Fig.)
- Lathrop, E. C.** The generation of aldehydes by *Fusarium cubense*. (Phytopathology VII [1917], p. 14—16.)
- Lázaro e Iñiza, Blas.** Noticia de algunos Ustilagináceos y Uredináceos de España. (Junta para Ampliación de Estudios e Investigaciones científicas Madrid. Serie Botanica Nr. 2 [1913], 38 pp. 1 lam.)
- Lehman, S. G.** Conidial Formation in *Sphaeronema fimbriatum*. (Mycologia X [1918], p. 155—163, Pl. VII.)
- *Penicillium spiculispurum*, a new ascogenous fungus. (Mycologia XII [1920], p. 268—274 Pl. XIX.)
- Lendner, A.** Un champignon parasite sur une Lauracée du genre *Ocotea*. (Bull. Soc. Bot. Genève 2. Sér. XII [1920], p. 122—128, 2 Figs.)
- Les Mucorinées géophiles récoltées à Bourg-Saint-Pierre. (Bull. Soc. Bot. Genève 2. Sér. XI [1918], p. 70—84, fig. 1—3.)
- Levin, E.** Light and pycnidia formation in the Sphaeropsidales. (Rep. Michigan Acad. Sci. XVII [1916], p. 134—135.)
- Levine, M.** The physiological properties of two species of poisonous mushrooms (Mem. t. Torrey Club. XVII [1918], p. 176—201, 2 Pls. 2 Fig.)
- The sporadic appearance of nonedible mushrooms in cultures of *Agaricus campestris*. (Bull. Torrey Club XLVI [1919], p. 57—63. Pl. III—V.)
- Lieske, Rudolf.** Morphologie und Biologie der Strahlenpilze (Actinomyceten). (Berlin. Gebr. Borntraeger 1921. X u. 292 pp. 112 Abb. im Text u. 4 farb. Tafeln.)
- Lindfors, Thore.** Einige bemerkenswerte, aus Kulturerde isolierte Pilze. (Svensk Bot. Tidskr. XIV [1920], p. 267—276, 11 Fig.)
- Lingelsheim, Alexander.** Ein neues, hexenringartig wachsendes *Cephalosporium*. (Österr. Bot. Zeitschr. LXX [1921], p. 91—95. 1 Fig.)
- *Stebella Arndtii*, ein neuer entomogener Höhlenorganismus aus Schlesien. (Berichte d. Deutsch. Bot. Gesellsch. XXXIX [1921], p. 149—152.)

- Link, George K. K.** A physiological study of two strains of *Fusarium* in their causal relation to tuber rot and wilt of Potato (Bot. Gaz. LXII [1916], p. 169—209, 13 Figs.)
- Lloyd, C. G.** Mycological Notes XL [1916], p. 541—556, Fig. 743—765 with frontispice.
 — The genus *Hydnochaete*. (Mycological Notes XLI [1916], p. 559—572, Fig. 766—781.)
 — Mycological notes XLII [1916], p. 574—588, Fig. 808—829.
 — Mycological notes XLIII [1916], p. 589—604, Fig. 830—854, Portrait.
 — Mycological notes 44 [1916], p. 605—620, Fig. 855—881, Portrait.
 — Mycological notes Nr. 45 [1917], p. 622—636, Fig. 883—909 and Portrait.
 — Mycological notes Nr. 46 [1917], p. 638—652, Fig. 910—932 and Portrait.
 — Synopsis of some genera of the large *Pyrenomyces* 1—15. (Cincinnati 1917, Fig. 826—857.)
 — The *Geoglossaceae* (viz., the genus *Geoglossum* and related genera). (24 pp. Fig. 782—807 [1916].)
 — Mycological Notes 48. (Cincinnati 1917, p. 670—684, Fig. 992—1025; 49 [1917], p. 685—700, Fig. 1026—1048.)
 — Letter no. 64. (Cincinnati [1917], 4 pp., Fig. 985—991.)
 — Letter no. 65. (Cincinnati 1917, 16 pp.)
 — Mycological Notes 47. ([1917], p. 654—668, Fig. 933—960, Portrait.)
 — The genus *Radulum* 12 pp. Fig. 961—984. (Cincinnati 1917.)
 — Mycological Notes. L. (Cincinnati 1917, p. 701—716, Fig. 1049—1074, Portrait.)
 — Letter no. 66. (Cincinnati 1917, 16 pp.)
 — Mycological Notes LI, (1917), p. 717—732, Fig. 1075—1100 and portrait; LII (1917), p. 733—748, Fig. 1101—1123 and portrait; LIII (1918), p. 749—764, Fig. 1124—1148 and portrait.
 — Mycological Notes LXI (1919), p. 877—903, Pl. 124—139.
 — The large *Pyrenomyces*. (Cincinnati 1919, p. 17—32, Fig. 1444—1460.)
 — Mycological Notes LX p. 862—876, Fig. 1463—1496 (1919), with photograph of Charles E. Fairman. — LXII (1920), p. 904—944, fig. 1598—1747 with an account of the life of Dr. J. C. Arthur and notes on the genera *Thamnomycetes*, *Cordyceps*, *Echinodontium*, *Aleurodiscus*, *Poronia*, and others.
 — Mycological Notes Nr. LVII (1919), p. 830—844, Fig. 1388—1412; Nr. LVIII (1919), p. 814—828, Fig. 1358—1387; Nr. LIX (1919), p. 846—860, Fig. 1413—1443 and frontispice.
 — Synopsis of the section *Apus* of the genus *Polyporus*. (Cincinnati 1915, p. 291—392, Fig. 631—706.)
 — *Xylaria* Notes Nr. I (Cincinnati 1918), p. 1—16, Fig. 1200—1236; Nr. II (1918), p. 17—32, Fig. 1324—1357.)
 — The myths of mycology 1—16. Exhibits A. E. Part. I. (Cincinnati 1917.)
- Long, W. H.** The aecial stage of *Coleosporium ribicola*. (Mycologia VIII [1916], p. 309—311.)
 — Five undescribed species of *Ravenelia*. (Bot. Gazette LXI [1916], p. 417—424.)
 — Notes on new or rare species of *Ravenelia*. (Bot. Gazette LXIV [1917], p. 57—69.)
 — Notes on new or rare species of *Gasteromyces*. (Mycologia IX [1917], p. 271—274.)
- Ludwig, C. A.** Notes on some North American rusts with caeomalike sori. (Phytopathology V [1915], p. 273—281.)
- Lutz, L.** Un double cas d'empoisonnement bénin par l'*Hebeloma crustuliniformis* Bull. (Bull. Soc. Bot. mycol. France XXXI [1915], p. 61—62.)
- Luyk, A. van.** *Gloeosporium ribis*. (Mededeel. uit het Phytopathol. Laborat. „Willie Commelin Scholten" IV (1920), p. 22—25.)

- Lyman, G. R. and Rogers, J. T.** The native habitat of *Spongospora subterranea*. (Science 2. Ser. XLII [1915], p. 940—941.)
- Lyon, H. L.** Fungi in Rock. J. F.: Palmyra Island with a description of its flora. (College of Hawaii Publ. Bull. IV [1916], 33 pp.)
- Mc Callum, A. W.** The occurrence of *Bulgaria platydiscus* in Canada. (Mycologia XI [1919], p. 293—295, Pl. XIV.)
- Mac Caughey, Vaughan.** A survey of the Hawaiian Land Flora-Fungi. (Bot. Gazette LXIV [1917], p. 112.)
- Mc Dougall, Walter B.** Some edible and poisonous mushrooms. (Bull. Illin. State Lab. Nat. Hist. II [1917], p. 413—555, Pls. 85—143. 1 Fig.)
- Mc Kay M. B. and Pool, V. W.** Field studies of *Cercospora beticola*. (Phytopathology VIII [1918], p. 119—136, 2 Fig.)
- Mc Lennan, Ethel.** The endophytic Fungus of *Lolium* Part. I. (Proceed. Roy. Soc. Victoria N. S. XXXII [1920], p. 252—301, Pl. XVIII—XXVI.)
- Mc Murphy, J.** A *Phytophthora* on oats. (Science 2. Ser. XLIV [1916], p. 534.)
- Maffei, Luigi.** Contribuzione allo studio della Micologia Ligustica. (Atti Ist. Bot. Univ. Pavia II. Ser. XII [1914], p. 1—16, 1 Tav.; II. Ser. XIV [1914], p. 137—150.)
- Mains, E. B.** Some factors concerned in the germination of rust spores. (Rep. Michigan Acad. Sci. XVII [1916], p. 136—140.)
- Species of *Melampsora* occurring upon *Euphorbia* in North America. (Phytopathology VII [1917], p. 101—105.)
- Maire, R.** Champignons Nord-Africains nouveaux on peu connus. (Bull. Soc. Hist. Nat. de l'Afrique du Nord VIII [1917], p. 134—200.)
- Schedae ad Mycothecam Boreali-Africanum. (Bull. Soc. d'Hist. nat. de l'Afrique du Nord VIII [1917], p. 74—83, 4 Figs.)
- Remarques sur la variation d'une Agaricacée sous l'influence du milieu. (Bull. Soc. mycol. France XXXV [1919], p. 147—149, Fig. 1.)
- Une Ustilagine nouvelle de la flore nord-africaine. (Bull. Soc. Hist. Nat. Afrique du Nord X [1919], p. 46—47.)
- Remarques sur le genre *Comesia* Saw. (Bull. Soc. d'hist. nat. de l'Afrique du Nord IX [1918], p. 18—19.)
- Schedae ad Mycothecam Boreali Africanam. (Ibidem Vol. X [1919], p. 130—151, 1 Pl., 4 Figs.)
- Troisième contribution à l'étude des Laboulbeniales de l'Afrique du Nord. (Public. de l'Univers. d'Alger. Trav. du Laborat. de Bot. de la Facult. Sci. 1920, p. 3—43, 2 Pl., 6 Fig.)
- Maitland, T. D. and Wakefield, E. M.** Notes on Uganda Fungi. I. The Fungus-Flora of the Forests. (Kew Bull. 1917, p. 1—19.)
- Mameli, Eva.** Sulla Flora Micologica della Sardegna. (Atti Ist. Bot. Univ. Pavia XVI [1914], p. 1—18.)
- Mangin, L. et Vincens, F.** Sur un nouveau genre d'Adelomycètes, le *Spirospora Castaneae* n. sp. (Bull. Soc. mycol. France XXXVI [1920], p. 89—97, 7 Figs.)
- Martin, George W.** An early American record of mushroom poisoning. (Mycologia XII [1920] p. 53—54.)
- Masse, George.** Diseases of cultivated plants and trees. (New York 1915, XII, + 602 pp. 173 Figs. 8')
- Mattirolo, O.** Contribuzione allo studio della *Monilia sitophila* (Mont.) Sacc. (Atti della R. Accad. Sci. Torino LII [1917—1918].)
- Maublanc, A.** Contribution à l'étude de la flore mycologique brésilienne. (Bull. Soc. mycol. France XXXVI [1920], p. 33—43, 1 Textfig.)

- Maublanc, A.** Les genres *Drepanoconis* Sclif. et Henn. et *Clinoconidium* Pat.: leur structure et leur place dans la classification. (Bull. Soc. mycol. France XXX [1914], p. 441—449, Pl. XXXVI et XXXVII.)
- Mayor, Eugène.** Étude expérimentale du *Puccinia Actaeae-Elymi* Eug. Mayor. (Bull. Soc. mycol. France XXXVI [1920], p. 137—161.)
- Étude expérimentale du *Puccinia Opizii* Bubák (Bull. Soc. mycol. France XXXVI [1920], p. 97—100.)
- Meinecke, E. P.** Forest pathology in forest regulation. (U. S. Dept. Agric. Bull. 275 [1916], p. 1—62.)
- Spore measurements. (Science 2. Ser. XLII [1915], p. 430—431.)
- *Peridermium Harknessii* and *Crocartium quercuum*. (Science 2. Ser. XLIII [1916], p. 73.)
- Melchers, L. E.** *Physoderma* (*Zea* *Maydis*?) in Kansas. (Phytopathology VIII [1918], p. 38—39.)
- Miles, L. E.** Some New Porto Rican Fungi. (Transact. Illinois Acad. Sci. X [1917], p. 249—255, Fig. 1—3.)
- Mirande, Marcel.** Sur un champignon nouveau de la famille des Hypocréacées, le *Melanospora Mattiroliana* Mirande. (Bull. Soc. mycol. France XXXII [1916], p. 64—73, 3 Fig.)
- Mirande, Robert.** *Zoophagus insidians* Sommerstorff capteur de Rotifères vivants. (Bull. Soc. mycol. France XXXVI [1920], p. 47—53, 2 Figs.)
- Mitra, S. K.** Toxic and antagonistic effects of salts of wine yeast. (*Saccharomyces ellipsoideus*). (Univ. Calit. Publ. Agr. III [1917], p. 63—102, 12 Figs.)
- Miyabe, Kingo.** On the relationship of *Chrysomyxa expanca* Diet. to *Peridermium Piceae hondoensis* Diet. (Tokyo Bot. Mag. XXIX [1915], p. 258—265.)
- Moreau, Fernand.** Sur la disparition des corpuscules métachromatiques chez le *Verticillium Lactarii* Peck. (Bull. Soc. mycol. France XXX [1914], p. 433—435.)
- Note sur la variété uninucléée de *Endophyllum Euphorbiae* (DC.) Winter (Ibidem XXXI [1915], p. 68—70, Pl. VI.)
- Sur la formation des spores du *Mucor Mucedo* L. (Ibidem XXXI [1915], p. 71—72.)
- A propos du nouveau genre *Kunkelia* Arthur. (Bull. Soc. mycol. France XXXVI [1920], p. 101—103.)
- Une nouvelle espèce de *Spicaria* (Sp. *Fuliginis*), parasite d'un Myxomycète (*Fuligo septica*). (Bull. Soc. mycol. France XXXII [1916], p. 33—36, 1 Fig.)
- Sur le rôle de l'amyloïde des asques et son utilisation éventuelle comme matière de réserve. (Bull. Soc. mycol. France XXXII [1916], p. 25—26.)
- Quelques observations sur un Ascomycète parasite du *Peltigera polydactyla* Hoffm. (Ibidem p. 49—53, 1 Fig.)
- Sur le blanchiment des pâtes à papier colorées par des mycéliums de Champignons. (Bull. Soc. mycol. France XXXIV [1918], p. 29—30.)
- Notions de Technique Microscopique. — Application à l'Etude des Champignons. (Ibidem p. 137—191, Fig. 1—35.)
- Nouvelles observations sur les Mucorinées. (Bull. Soc. mycol. XXXIII [1917], p. 34—49, Fig. 1—12.)
- Moreau, Fernand et Mme.** L'évolution nucléaire chez l'*Endophyllum Sempervivi* Lév. (Bull. Soc. mycol. France XXXIII [1917], p. 70—72, Fig. 1—4.)
- L'écidiospore de l'*Endophyllum Euphorbiae-silvaticae* (DC.) Winter est-elle le siège d'une karyogamie? (Ibidem p. 97—99, 1 Fig.)
- *Epicymatia aphthosae* n. sp., parasite du Lichen *Peltidea aphthosa* Hoffm. (Bull. Soc. mycol. France XXXIII [1917], p. 23—27, Fig. 1—2.)

- Moreau, Fernand.** Une anomalie dans l'histoire nucléaire des spores de l'Endophyllum Sempervivi Lév. (Ibidem p. 98—102. 1 Fig.)
- Morse, A. P.** List of the water-color drawings of fungi by George E. Morris in the Peabody Museum of Salem. (Salem 1918, 70 pp.)
- Murphy, Paul A.** Morphology and Cytology of the Sexual Organs of *Phytophthora erythro-septica* Pethyb. (Ann. Bot. XXVIII [1914], p. 735—736.)
- The Morphology and Cytology of the Sexual Organs of *Phytophthora erythro-septica* Pethybr. (Ann. of Bot. XXXII [1918], p. 115—153, Pl. II—III.)
- Murr, J.** Unsere Hutpilze und die Entwicklungsgeschichte. (Heimat, 1920, p. 94—97.)
- Ein Nachtrag über Pilzgerüche. (Feldkirch. Anz. Nr. 74 [1920], 1 p.)
- Murrill, W. A.** Agaricales: Agaricaceae (pars), Agariceae (pars.) in North American Flora 9, New York Bot. Garden 1916.
- Illustrations of Fungi XXV. (Mycologia VIII [1916], p. 231—234, Pl. 190.)
- Fungi collected at Arkville, New York. (Mycologia VIII [1916], p. 293—299.)
- Illustrations of Fungi XXVI. (Mycologia IX [1917], p. 185—190, Pl. VII.)
- Illustrations of Fungi XXVII. (Mycologia IX [1917], p. 257—260, Pl. XI.)
- Illustrations of Fungi XXVIII. (Mycologia X [1918], p. 107—110, Pl. VI.)
- Illustrations of Fungi XXIX. (Mycologia X [1918], p. 177—181, Pl. VIII.)
- Some described species of *Poria*. (Mycologia XI [1919], p. 231—244.)
- Illustrations of Fungi XXXI. (Mycologia XI [1919], p. 289—292, Pl. XIII.)
- Illustrations of Fungi XXXII. (Mycologia XII [1920], p. 59—61, Pl. II.)
- Light-colored resupinate Polypores I. (Ibidem p. 77—92.)
- Another new Truffle. (Ibidem p. 157—158, 1 Fig.)—*Tuber Shearii* Harkness sp. nov.
- Index to Illustrations of Fungi I—XXII. (Mycologia VIII [1916], p. 47—51.)
- A new Family of Hymenomycetes. (Ibidem p. 56.)
- A new genus of resupinate Polypores. (Mycologia VIII [1916], p. 56—57.)
- An attract ve species of *Melanoleuca* from Oregon. (Mycologia VIII [1916], p. 113.)
- Insects and Mushrooms. (Ibidem p. 113—114.)
- *Pleurotus*, *Omphalia*, *Mycena*, and *Collybia* published in North American Flora. (Mycologia VIII [1916], p. 218—221.)
- Some Fungi collected in Virginia. (Mycologia IX [1917], p. 34—36.)
- New combinations. (Mycologia IX [1917], p. 40.)
- Two new species of Fleshy Fungi. (Ibidem p. 40—41.)
- Agaricales, Agaricaceae (pars), Agariceae (pars). (North American Flora X. Part. 3 [1917], p. 145—226.)
- The rosy-spored agarics of North America. (Mem. Brooklyn Bot. Gart. I [1918], p. 334—336.)
- *Melanoleuca pulverulentipes* Murrill. (Mycologia IX [1917], p. 179.)
- Collecting fungi at Delaware Water Gap. (Mem. Torrey Club XVII [1918], p. 48—51.)
- Wild mushrooms as food. (Amer. Mus. Journ. XVII [1917], p. 323—331, Pl. VI.)
- Some described species of *Poria*. (Mycologia XI [1919], Nr. 5.)
- The artist's bracket fungus. (Sci. Am. CXXII [1920], p. 365.)
- The Agaricaceae of Tropical North America VII. (Mycologia X [1918], p. 15—33.)
- The Agaricaceae of Tropical North America — VIII. (Mycologia X [1918], p. 62—85.)
- Collecting fungi at the Delaware Water Gap. (Journ. New York Bot. Gard. XVIII [1917], p. 207.)
- *Polyporus Bracei* sp. nov. (Mycologia XI [1919], p. 222—223.)

- Murrill, W. A.** A new *Lentinus*. — *L. Freemanii* sp. nov., from Minnesota. (Ibidem p. 223—224.)
- Fungi from Ecuador. (Ibidem p. 224.)
- Queer Fungous Growths. (Ibidem p. 225—226, 1 Fig.)
- Murrill's and Saccardo's names of polypores compared. (New York 1918, 13 pp.)
- A Field Meeting of Pathologists. (Mycologia XI [1919], p. 308—312, Pl. XV.)
- Fungi from Hedgecock. (Mycologia XII [1920], p. 41—42.)
- Collecting Fungi at Yama Farms. (Mycologia XII [1920], p. 42—43.)
- *Trametes serpens*. (Ibidem p. 46—47.)
- The genus *Poria*. (Ibidem p. 47—51.)
- Collecting Fungi near Washington. (Ibidem p. 51—52.)
- A new *Amanita*. — *Venenarius Wellssii*. (Ibidem p. 291—292.)
- Collecting Fungi in Virginia. (Mycologia XI [1919], p. 277—279.)
- Corrections and additions to the Polypores of temperate North America. (Mycologia XII [1920], p. 6—24.)
- Light colored resupinate Polypores II. (Mycologia XII [1920], p. 299—308.)
- The Fungi of Blacksburg, Virginia. (Mycologia XII [1920], p. 322—328.)
- Kauffman's Agaricaceae. (Mycologia XII [1920], p. 166.)
- Oudemans' Work on Fungi. (Ibidem p. 169.)
- A Polypore parasitic on twigs of *Asimina*. (Mycologia XI [1919], p. 319.)
- An Orange-colored Puffball. (Mycologia XI [1919], p. 319—320.) — *Lycoperdon rubro flavum*.
- Boleti from Connecticut. (Mycologia XI [1919], p. 321—322.)
- Mutto, Elisa e Pollacci, Gino.** Ulteriori ricerche intorno alla variazione di alcune specie di Micromiceti. (Seconda nota). (Atti Istit. Bot. Univ. Pavia e Laborat. Crittog. ital. XVII [1920], p. 53—57, Tav. II.)
- Nagayama, T.** Über die Zerlegung der Brenztraubensäure durch verschiedene Pilze. (Biochem. Zeitschr. CXVI [1921], p. 303—306.)
- Navumoff, N.** Description de quelques nouveaux espèces. (Bull. Soc. mycol. de France XXX [1914], p. 423—432, Pl. XXXII—XXXIII.)
- Némee, A. und Kás, V.** Über den Einfluß des Selens auf die Entwicklung einiger Schimmelpilze aus der Gattung *Penicillium*. (Biochem. Zeitschr. 113 [1921], p. 12—22.)
- Nieuwland, J. A.** „Fairy circles“. (Amer. Midl. Nat. V [1918], p. 230—231.)
- Nüesch, Emil.** Die Röhrlinge (Pilzgattung *Boletus*). Bestimmungsschlüssel und Beschreibung aller Röhrlinge Mitteleuropas. (Frauenfeld, Verlag v. Huber & Co. 1920, 43 pp.)
- Die braunsporigen Normalblätterpilze (Phaeosporae der Agariceae) der Kanton St. Gallen und Appenzell. — Fundverzeichnis mit kritischen Bemerkungen zur Artkennzeichnung. (Jahrb. St. Gallisch. Naturwiss. Ges. LV [1917—1918] 1919, p. 177—322.)
- Olive, E. W.** The cytological structure of *Botryorhiza* *Hippocrateae*. (Mem. Brooklyn Bot. Gard. I [1918], p. 337—341, Pl. VIII.)
- Orton, C. R.** North American species of *Allodus*. (Mem. New York Bot. Gard. VI [1916], p. 173—208.)
- Oudemans, C. A. J. A.** Enumeratio systematica Fungorum. (Haag, M. Nijhoff 1919—1920. 2 Vol. 1230 und 1069 pp.)

- Overeem, C. van.** Mykologische Mitteilungen. Serie I. Ascomyceten. III. Stück. Über zwei interessante Discomyceten. (Hedwigia LXIII [1921], p. 50—57 2 Textabb.)
- Overholts, L. O.** The Polyporaceae of the middle-western United States. (Wash. Univ. Studies III [1915], p. 3—98, 8 Pls.)
- Some Colorado Fungi. (Mycologia XI [1919], p. 245—258.)
- Some mycological notes for 1919. (Mycologia XII [1920], p. 135—142, Pl. IX—X.)
- Overholts, L. O.** et **Overholts, M. F.** Some Kentucky fungi. (Mycologia VIII [1916], p. 249—252.)
- The structure of *Polyporus glomeratus* Peck. (Torreyia XVII [1917], p. 202—206, Pl. 1.)
- Some Colorado Fungi. (Mycologia XI [1919], Nr. 5.)
- Pammel, L. H.** Perennial mycelium of parasitic fungi. (Proceed. Iowa Acad. Sci. XXV [1919], p. 536—537.)
- Parks, H. E.** Notes on California Fungi. (Mycologia XI [1919], p. 10—21.)
- Patouillard, N.** Champignons de la Nouvelle-Calédonie (Suite). (Bull. Soc. mycol. France XXXI [1915], p. 31—35, 2 Fig.)
- Quelques champignons du Tonkin. (Ibidem p. 73—78.)
- Une Lépiote africaine des Nids de termites. (*Lepiota* Le Testui). (Ibidem XXXII [1916], p. 59—62, 1 Pl.)
- Quelques Champignons du Tonkin. (Bull. Soc. mycol. France XXXIII [1917], p. 50—63.)
- Une anomalie du *Scleroderma verrucosum* Bull. (Ibidem p. 92—93, 1 Fig.)
- Sur deux formes conidiennes de *Porohydnes*. (Ibidem p. 198—201, Fig. 1—2.)
- Le genre *Clavariopsis* Holt. (Bull. Soc. mycol. France XXXVI [1920], p. 61—63, 2 Figs.)
- Quelques Champignons du Tonkin (Suite). (Ibidem p. 174—177.)
- Patterson, F. W.** and **Charles, V. K.** Some common edible mushrooms. (U. S. Dept. Agric. Farm. Bull. no. 796 [1917], 24 pp. 22 Fig.)
- Pelé, M.** Note sur *Aleuria Ricciae* Crouan = *Lachnea Ricciae* Gillet. (Bull. Soc. mycol. France XXXV [1919], p. 150—151.)
- Peltier, G. L.** Parasitic Rhizoctonias in America. (Illinois Agric. Experim. Stat. Bull. 189 [1916], p. 283—390. 23 Figs.)
- Pennington, L. H.** New York species of *Marasmius*. (New York State Mus. Bull. 179 [1915], p. 52—79.)
- Petch, T.** Mocharas and the Genus *Haematomyces*. (Ann. of Bot. XXXIII [1919], p. 405—419, 2 Textfigs.)
- Petrak, F.** Mykologische Beiträge I. (Hedwigia LXII [1921], p. 282—319.)
- Mykologische Notizen II. (Nr. 31—115). (Ann. Mycol. XIX [1921], p. 17—128.)
- Petrescu, C.** Contribution à la flore de la Roumanie. Septième note (Bull. Section scientif. de l'Acad. Roumaine VI [1919—20], p. 44—52.)
- Peyronel, Beniamino.** Micromiceti di Val Germanasca. (Nuov. Giorn. Bot. Ital. XXV [1920] p. 405—468, 74 Fig.)
- Sul Nerume a Marciome nero delle Castagne. (Le Staz. Sperim. Agric. Ital. LII [1919], p. 21—41, con 4 tavole.)
- Un *Hyphomycète* singulier. *Eriomenella tortuosa* (Corda) Peyronel. (Bull. Soc. mycol. France XXXV [1920], Fasc. 4, 18 pp. Pl. VIII et. IX.)
- Un interessante Parassita del Lupino non ancora segnalato in Italia *Blepharospora terrestris* (Sherb.) Peyr. (Rendic. R. Accad. dei Lincei Classe di fis. matem. e nat. XXIX, ser. 5, 1. sem. Fasc. 5 [1920], p. 194—197.)

- Peyrond, B.** La Forma Ascofóra della, Rhacodiella Castaneae agente del Nerume delle Castagne. (Rendic. R. Accad. Naz. Lincei Cl. sci. fis., matem. e nat. XXIX, serie 5, 2 sem. Fasc. 10 [1920], p. 324—327.)
- La forma ascofóra dell Oidio della quercia a Roma. (Le Staz. Sperim. Agrar. ital. LIV [1921], p. 5—10.)
- Picbauer, R.** Vierter Beitrag zur mährischen Pilzflora. (Čtortý příspěvek ku květeně moravských hub. (Cas. Mor. Mus. Zemského. Brünn 1920, 6 pp.)
- Pierre, H.** Nouveau cas de rubéfaction de la face, survenu à la suite de l'ingestion du Coprinus atramentarius. (Bull. Soc. mycol. France XXXIV [1918], p. 28.)
- Pieters, A. J.** New species of Achlya and of Saprolegnia. (Bot. Gazette LX [1915], p. 483—490, Pl. XXI.)
- Piper, C. V. and Coe, H. S.** Rhizoctonia in lawns and pastures. (Phytopathology IX [1919], p. 89—92. Pl. VII—VIII.)
- Porter, A. A. and Coons, G. W.** Differences between the species of Tilletia on wheat. (Phytopathology VIII [1918], p. 106—113, 4 Figs.)
- Povah, A. H. W.** Helicostylum and Cunninghamella: two genera of the Mucorales new to the state. (Ann. Rept. Michigan Acad. Sci. XVII [1915], p. 152—155, Pl. XVI—XVII.)
- A critical study of certain species of Mucor. (Bull. Torr. Bot. Club XLIV [1917], p. 241—259, Plates XVII—XX: p. 287—313.)
- Ramaley, Francis.** Mushroom fairy rings of Tricholoma praemagnum. (Torreya XVI [1916], p. 193—199.)
- Rands, R. D.** The production of spores of Alternaria Solani in pure culture. (Phytopathology VII [1917], p. 316—317, 1 Fig.)
- Rangel, E.** Fungos parasitas do quando Cajanus indicus Spreng. (A Lavoura XVIII [1914], p. 5—12, Pl. I—III.)
- Ranoievitch, Nicolas.** Sur quelques Espèces nouvelles de Champignons. (Bull. Soc. mycol. France XXXV [1919], p. 14—26, Fig. 1—14.)
- Sur une nouvelle espèce de Rouille, Puccinia Corteyi Rann. (Ibidem p. 140—141.)
- Rayner, M. Chevely.** Recent Developments in the Study of endotrophic Mycorrhiza. (New Phytologist XV [1916], p. 161—175.)
- Reed, G. M.** Physiological specialisation of parasitic fungi. (Mem. Brooklyn Bot. Gard. I [1918], p. 348—409.)
- Reinking, O. A.** Higher Basidiomycetes from the Philippines and their hosts II. (Philipp. Journ. Sci. Bot. XVI [1920], p. 167—179.)
- Reynolds, E. S.** Internal telia of rusts. (Science 2 ser. XLVI [1917], p. 140—141.)
- Rhoads, A. S.** The black zones formed by wood destroying fungi. (N. York State Coll. Forest Tech. Publ. VIII [1917], p. 1—60, Pl. I—VI.)
- Riddle, Lincoln W.** Observations on the genus Acrospermum. (Mycologia XII [1920], p. 175—181, Plate XI.)
- Rosen, H. R.** Notes on some methods and terms employed in studying the Uredinales. (Phytopathology VIII [1918], p. 572—580, Pl. IV, 1 Fig.)
- Rosenbaum, J.** Studies of the genus Phytophthora. (Proceed. Nat. Acad. Sci. III [1917], p. 159—163.)
- Rumbold, C.** Notes on effect of dyes on Endothia parasitica. (Bot. Gazette LXIV [1917], p. 250—252.)
- Saccardo, P. A.** Notae mycologicae, ser. XXIX. Micromycetes Dakotenses et Utahenses a Doct. J. F. Brenckle lecti et communicati. (Mycologia XII [1919—205].)
- Saito, Kendo und Naganishi, Hirosuke.** Bemerkungen zur Kreuzung zwischen verschiedenen Mucor-Arten. (Tokyo Bot. Mag. XXI [1915], p. 149—154, Tafel I.)

- Sartory, A.** Empoisonnement par *Amanita verna*. 3 morts. (Bull. Soc. Bot. mycol. France XXX [1914], p. 438—450.)
- Une forêt de Champignons dans une mine de fer près de Nancy. (Ibidem p.450—451, 1 Fig.)
- Sur un nouveau Champignon du genre *Scopulariopsis* isolé d'un cas d'onychomycose. (Compt. Rend. Acad. Sci. Paris Tome CLXIX [1919], p. 703—704.)
- Sawyer, W. H. Fr.** Development of some species of *Pholiota*. (Bot. Gaz. LXIV [1917], p. 206—229, Pl. XVI—XX.)
- Sax, H. J.** Spore formation in *Philocopra coeruleotecta*. (Am. Journ. Bot. V [1918], p. 61—78, Pl. 9—11.)
- Schedae** ad Floram Romaniae exsiccata a Museo Botanico universitatis Clusienis editum. Centuria I [1921], p. 1—6. (Bulet. de Inform. Cluj I [1921].) Darin sind folgende Gattungen genannt: *Pandorina*, *Erysiphe*, *Uromyces*, *Puccinia*, *Melampsorium*, *Coleosporium*, *Lycoperdon*, *Geaster*.
- Shimek, Albert.** Gibt es verschiedene Steinpilzarten? (Der Pilz- und Kräuterfreund IV [1921], p. 170—171.)
- Schoellhorn, Kurt.** Sur la fermentation de quelques levures des nectars des plantes d'hiver. (Thèse présentée à la Facult. Sci. Univ. Genève Nr. 636 [1920], 51 pp. 29 Figs.)
- Schwarze, C. A.** The parasitic fungi of New Jersey. (New Jersey Agric. Experim. Stat. Bull. no. 313 [1917], 226 pp. Fig. 1—1056.)
- Schweizer, J.** Untersuchungen über den Pilz des Salates *Bremia Lactucae* Regel. (Mitteil. Thurgauisch. Naturf. Ges. XXIII [1920], p. 15—60.)
- Scott, W. M.** Fighting orchard insects and diseases. (Amcr. Fruit-Grower II [1916], p. 3—5.)
- Seaver, Fred. J.** Photographs and descriptions of Cup-Fungi. III. *Peziza domiciliana* and *Peziza repanda*. (Mycologia VIII [1916], p. 195—198, Pl. 188—189.)
- Photographs and descriptions of Cup-Fungi. IV. *Peziza clypeata*. (Mycologia VIII [1916], p. 235—238, Pl. CXC1.)
- Photographs and descriptions of Cup-Fungi. V. *Peziza proteana* and *Peziza violacea*. (Mycologia IX [1917], p. 1—3, Pl. 1.)
- *Sclerotinia* and *Botrytes*. (Torreya XVII [1917], p. 163—164.)
- Fungi. (In Britton, N. L. Flora of Bermuda [1918], p. 489—540.)
- Possibilities of the truffle industry in America. (Journ. New York Bot. Gard. XIX [1918], p. 307—309, Pl. 223.)
- Photographs and descriptions of Cup-Fungi. V. *Discina venosa*. (Mycologia IX [1917], p. 53—54, Pl. V.)
- Photographs and Descriptions of Cup-Fungi. VII. The genus *Underwoodia*. (Mycologia X [1918], p. 1—3, Pl. 1.)
- Photographs and Descriptions of Cup-Fungi. VIII. *Elvela infula* and *Gyromitra csulcanta*. (Mycologia XII [1920], p. 1—5, Pl. 1.)
- North American Species of *Ascodesmis*. (Mycologia VIII [1916], p. 1—4, Pl. 172.)
- Fink's *Ascomycetes* of Ohio. (Ibidem p. 57—58.)
- The Earth-Inhabiting Species of *Ascobolus*. (Mycologia VIII [1916], p. 93—97, Pl. CLXXXIV.)
- *Botrytis* and *Sclerotinia*. (Science 2. ser. XLVI [1917], p. 163.)
- Seaver, F. J.** and **Horne, W. T.** Life-history studies in *Sclerotinia*. (Mem. Torrey Club XVII [1918], p. 202—206, Pl. III.)
- Notes on North American *Hypocreales* IV. *Aschersonia* and *Hypocreella*. (Mycologia XII [1920], p. 93—98, Pl. VI.)

- Shear, C. L. and Stevens, Neil E.** Studies of the Schweinitz Collections of Fungi. I. Sketch of his mycological work. (*Mycologia* IX [1917], p. 191—204, Pl. VIII. et IX.)
- — Studies of the Schweinitz Collections of Fungi. II. Distribution and previous studies of authentic specimens. (*Mycologia* IX [1917], p. 333—344.)
- — The mycological work of Moses Ashley Curtis. (*Mycologia* XI [1919], p. 181—201.)
- Shear, C. L., Stevens, N. E. and Tiller, R. J.** *Endothia parasitica* and related species. (U. S. Dept. Agric. Bull. 380 [1917], p. 1—82, Pl. I—XXIII, Fig. 1—5.)
- Siggers, P. V.** Some cultural characteristics of *Pestalozzia funera* Desm. (Rep. Michigan Acad. Sci. XVII [1916], p. 141, Pl. XII.)
- Small, W.** Notes on species of *Colletotrichum* and *Phoma* in Uganda. (Kew Bull. 1921, p. 57—67.)
- Smith, C. O.** Cottony rot of lemons in California. (Calif. Agric. Exp. Stat. Bull. 265 [1916], p. 237—258, Fig. 1—11.)
- Preliminary studies on the resistance of *Prunus* to artificial inoculation with *Bacterium tumefaciens*. (*Phytopathology* VI [1916], p. 186—194, Pl. VI.)
- Sousa da Camara, Emmanuele de.** *Mycetes aliquot novi alique in Mycoflora Azorica et Africana ignoti in Laboratorio Pathologiae vegetalis Instituti Agronomici Olisipponensis observata.* (*Revista Agronomica Olisippo* [1920], 7 pp. Tab. I—IV.)
- *Mycetes aliquot novi alique in Mycoflora Lusitaniae ignoti. In Laboratorio Pathologiae vegetalis Instituti Agronomici Olisipponensis observata.* (*Revista Agronomica Olisippo* 1920, 14 pp. Tab. I—V.)
- Spaulding, P.** Notes on *Cronartium comptoniae*. III. (*Phytopathology* VII [1917], p. 49—51.)
- Speare, A. T.** On certain entomogenous Fungi. (*Mycologia* XII [1920], p. 62—76, Pl. III—V.)
- The fungus parasite of the periodical cicada. (*Science* II. ser. L [1919], p. 116—117.)
- Spegazzini, Carlos.** Fungi nonnulli senegalenses et canarienses. (*Anales Mus. Nac. Hist. Nat. Buenos Aires* XXVI [1914] 1915, p. 117—134, 6 Figuras.)
- Laboulbeniales ritrovate nelle collezioni di alcuni musei italiani. (*Ibidem* p. 451—511, Fig. 1—48.)
- Revision de las Laboulbeniales Argentinas. (*An. Mus. Nac. Hist. Nat. Buenos Aires* XXIX [1917], p. 445—688, 213 Figs.)
- Standley, Paul C.** Rusts and Smuts collected in New Mexico in 1916. (*Mycologia* X [1918], p. 34—42.)
- Rusts from Glacier National Park, Montana. (*Mycologia* XII [1920], p. 143—148.)
- Stevens, F. L.** A convenient, little-known method of making micromounts of fungi. (*Phytopathology* VI [1916], p. 367—368.)
- Spegazzinian *Meliola* Types. (*Bot. Gazette* LXIV [1917], p. 421—425, Plates XXIV—XXVI.)
- The genus *Meliola* in Porto Rico including Descriptions of Sixty-two New Species and Varieties and a Synopsis of all known Porto Rican Forms. With five Plates. (*Illinois Biolog. Monographs* Vol. II [1916], Nr. 4, 82 pp. V Plates.)
- Stevens, F. L. and Dalbey, Nora E.** New or noteworthy Porto Rican Fungi. (*Mycologia* XI [1919], p. 4—9, Plates II. and III.)
- — Some *Phyllachoras* from Porto Rico. (*Bot. Gazette* LXVIII [1919], p. 54—59, Pl. VI—VIII.)
- Three new Fungi from Porto Rico. (*Mycologia* XII [1920], p. 52—53.)
- Stewart, V. B.** The perennation of *Cronartium ribicola* Fisch on currant. (*Phytopathology* VII [1917], p. 448—449.)

- Stone, R. E.** Common edible and poisonous mushrooms of Ontario. (Ontario Dept. Agric. Bull. no. 263 [1918], 24 pp.)
- Upon the audibility of spore discharge in *Helvella elastica* (Bull.). (Trans. Brit. Myc. Soc. VI [1920], p. 294.)
- Upon the visibility of spore dissemination in *Fomes pinicola* [Sw.] Fries. (Ibidem p. 295.)
- Stork, Harvey, E.** Biology, Morphology, and Cytoplasmic Structure of *Aleurodiscus*. (Amer. Journ. of Bot. VII [1920], p. 445—457, Plates XXXI—XXXIII.)
- Sundaraman, S.** *Ustilago Crameri* Koern. on *Setaria italica* Beauv. (Bulletin Nr. 97 of the Agric. Res. Inst. Pusa.)
- Sutherland, Geo K.** New Marine Fungi on *Pelvetia*. (New Phytologist XIV [1915], p. 33—42, 4 Fig.)
- Additional Notes on Marine Pyrenomycetes. (Ibidem p. 183—193, 1 Fig.)
- Marine Fungi imperfecti. (Ibidem XV [1916], p. 35—48, 5 Figs.)
- Svanberg, O.** Die Vermehrungsgeschwindigkeit der Hefen bei verschiedener Azidität. (Zeitschr. f. techn. Biol. VIII [1920], p. 1—22.)
- Sydow, H. und P.** Die Pilze Mikronesiens aus der Sammlung Ledermann. (Engl. Bot. Jahrb. LVI [1921], p. 430—432.)
- Tanaka, Tyōzaburō.** New Japanese Fungi. Notes and translations II. (Mycologia IX [1917], p. 249—253.)
- New Japanese Fungi. Notes and Translations. III. (Mycologia IX [1917], p. 365—370.)
- New Japanese Fungi. Notes and Translations. IV. (Mycologia X [1918], p. 86—92.)
- New Japanese Fungi. Notes and Translations. VI. (Mycologia XI [1919], p. 80—86.)
- New Japanese Fungi. Notes and Translations VII. (Mycologia XI [1919], Nr. 3, p. 148—154.)
- New Japanese Fungi. Notes and Translations VIII. (Mycologia XII [1920], p. 25—32.)
- New Japanese Fungi. Notes and Translations IX. (Mycologia XII [1920], p. 329—333.)
- Tanner, F. W.** Bacteriology and mycology of foods. (New York 1919, p. I—IV and 1—592, Pl. I—X, Fig. I—85.)
- Taylor, M. W.** The overwintering of *Cronartium ribicola* on *Ribes*. (Phytopathology IX [1919], p. 575.)
- Tehon, Leo R.** Systematic Relationship of *Clithris*. (Bot. Gazette LXV [1918], p. 552—555, Pl. IX.)
- Tharp, G. B.** Texas parasitic Fungi. (Mycologia IX [1917], p. 105—124.)
- Thaxter, R.** New Indo-Malayan Laboubeniales. (Proceed. Am. Acad. Arts and Sci. LI [1915], p. 3—51.)
- Second note on certain peculiar fungus-parasites of living insects. (Bot. Gazette LXIX [1920], p. 1—27, Pl. I—V.)
- New or critical species of *Chitonomyces* and *Rickia*. (Proceed. Am. Acad. Arts and Sci. LII [1916], p. 1—54.)
- New Dimorphomyceteae. (Proc. Am. Acad. Arts and Sci. LV [1920], p. 211—282.)
- Thom, Charles, and Church, Margaret B.** *Aspergillus flavus*, *A. oryzae*, and associated species. (Am. Journ. Bot. VIII [1921], p. 103—126, 1 Fig.)
- Thomas, H. E.** Cultures of *Acididium tubulosum* and *A. passifloricola*. (Phytopathology VIII [1918], p. 163—164.)
- Thrap, B. C.** Texas parasitic fungi. New species and amended descriptions. (Mycologia IX [1917], p. 105—124.)
- Thurston, H. W. jr.** *Puccinia Antirrhini*. (Phytopathology IX [1919], p. 330.)

- Travelbee, H. C.** Correlation of certain long-cycled and short-cycled rusts. (Proceed. Indiana Acad. 1914, p. 231—234.)
- Trumbull, H. L. and Hotson, J. W.** The effect of roentgen and ultraviolet rays upon fungi. (Phytopathology VII [1917], p. 426—431. 2 Fig.)
- Turconi, Malusio.** Intorno alla Micologia Lombarda Memoria. I. (Atti Ist. Bot. Univ. Pavia, II. Ser. XII [1914], p. 57—284.)
- Turesson, Göte.** Mykologiska Notiser. II. *Fusarium viticola* Thüm. infecting peas. (Bot. Not. 120, p. 113—125.)
- Turley, H. E.** New fruit fungi found on the Chicago market. (Science II. ser. L [1919], p. 375—376.)
- Vincens, F.** Deux champignons entomophytes sur Lépidoptères, récoltés au nord du Brésil. (Bull. Soc. mycol. France XXXI [1915], p. 25—28, Pl. IV.)
- Vincens, F.** Une nouvelle espèce de *Melanospora*: *M. Mangini*. (Bull. Soc. mycol. France XXXIII [1917], p. 67—69, Figures A—D.)
- Recherches organogéniques sur quelques Hypocréales. (Thèse Sciences Paris, 1918, 166 pp. 71 Fig. 3 Pl.)
- Valeur taxinomique d'une particularité de la structure des ascospores chez les Xylariacées. (Ibidem p. 101—109, 4 Figs.)
- *Verticillium beauverioides* nov. spec. (Bull. Soc. Bot. France LXIII [1916—1919], p. 211—217.)
- Vuillemin, Paul.** Nouvelles souches thermophiles d'*Aspergillus glaucus*. (Bull. Soc. mycol. France XXXVI [1920], p. 127—136, 3 Figs.)
- Wahl, C. von.** Zur Farbenfrage bei der Pilzbestimmung. (Der Pilz- und Kräuterfreund IV [1921], p. 165—168.)
- Wakfield, E. M.** New and rare British Fungi. (Kew Bull. 1918, p. 229—233.)
- Fungi of New Caledonia and the Loyalty Islands. (Sarasin et Roux Nova Caledonia Vol. I, Lief. II [Berlin u. Wiesbaden 1920], p. 89—108.)
- Waksman, S. A.** Do fungi live and produce mycelium in the soil? (Science II, ser. XLIV [1916], p. 326—322.)
- Soil fungi and their activities. (Soil Sci. II [1916], p. 103—156, 5 Pls.)
- Weese, Joseph.** Beiträge zur Kenntnis der Hypocreaceen. Mitteil. 11. (Sitzungsber. Akad. Wiss. Wien, Math.-naturw. Kl. Abt. I, Vol. CXXVIII [1919], p. 693—753, 1 Tafel.)
- Über einige Ascomyceten aus dem Mährischen Gesenke. (Berichte d. Deutsch. Botan. Gesellsch. XXXIX [1921], p. 108—114.)
- Über die Gattungen *Ophiosphaeria* W. Kirsch., *Acanthophiobolus* Berl. und *Ophiochaeta* Sacc. (Ibidem p. 114—120.)
- Weimer, J. L.** Three cedar rust fungi, their life histories and the diseases they produce. (Cornell Agric. Experim. Stat. Bull. no. 390 [1917], p. 507—549 Fig. 136—157.)
- Some observations on the spore discharge of *Pleurage curvicolla* (Wint.) Kuntze. (Amer. Journ. Bot. VII [1920], p. 75—77.)
- Weir, James R.** Notes on the altitudinal range of forest fungi. (Mycologia X [1918], p. 4—14.)
- Experimental investigations on the genus *Razoumofskyia*. (Bot. Gazette LXVI [1918], p. 1—31, Fig. 1—19.)
- Weir, James R. and Hubert, Ernest E.** Cultures with *Melampsorae* on *Populus*. (Mycologia X [1918], p. 194—198.)
- Welsford, E. J.** Conjugate Nuclei in the Ascomycetes. (Ann. Bot. XXX [1916], p. 415—417, 4 Figs.)

- Welsford, E. J.** Division of the Nuclei in *Synchytrium endobioticum*. *Perc.* (Ann. of Bot. XXXV [1921], p. 298—299, 1 Fig.)
 — Nuclear migrations in *Phragmidium violaceum*. (Ann. of Bot. XXIX [1915], p. 293—298, Pl. XVI.)
- West, Cyril.** *Stigeosporium Marattiacearum*, gen. et sp. nov. (Ann. Bot. XXX [1916], p. 357.)
 — On *Stigeosporium Marattiacearum* and the Mycorrhiza of the Marattiaceae. (Ann. of Bot. XXXI [1917], p. 77—99, Pl. III, Fig. 9.)
- Weston, William H.** The Development of *Thraustotheca*, a Peculiar Water-Mould. (Ann. of Bot. XXXII [1918], p. 155—173, Plates IV—V, 2 Figs.)
- White, C. T.** Luminous Fungi. (Queensland Agric. Journal 1919, p. 33—34. Plate 3.)
 — *Pleurotus Lampes*.
 — Two interesting Fungi. (The Queensl. Naturalist II [1920], p. 80—87.) — *Lysurus Gardneri* Berk., *L. pentagonus* (Bail) C. T. White n. comb.
- Whitford, A. C.** A description of two new fossil fungi. (Nebraska Geol. Surv. VII [1916], p. 85—92, 13 Figs.)
- Williams, Maud.** Absorption of Gold from Colloidal Solutions by Fungi. (Ann. of Bot. XXXII [1918], p. 531—534.)
- Wilson, G. W.** An Exobasidium on *Armillaria*. (Proceed. Jowa Acad. Sci. XXII [1915], p. 134.)
 — Notes on some pileate *Hydnaceae* from Jowa. (Proceed. Jowa Acad. Sci. XXIII [1916], p. 415—422.)
 — *Scleroderma vulgare* and its Jowa allies. (Ibidem XXIII [1916], p. 411—414.)
 — Studies in North American *Peronosporales* VII. New and noteworthy species. (Mycologia X [1918], p. 168—169.)
- Willson, Malcolm.** Some Fungi from Tibet. (Notes Roy. Bot. Gard. Edinburg XII [1921], p. 261—263, Pl. CLXIX.)
 — An Addition to the Cryptogamic Flora of the Royal Botanic Garden. (Ibidem p. 264.)
- Wormald, H.** On the occurrence in Britain of the Ascigerous Stage of a „Brown Rot“ Fungus. (Ann. of Bot. XXXV [1921], p. 125—135, Pl. VI—VII.)
- Yasuda, Atsushi.** Eine neue Art von *Cudonia*. (Tokyo Bot. Mag. XXIX [1915], p. 69—70, 4 Fig.)
 — Eine neue Art von *Hypocrea*. (Tokyo Bot. Mag. XXXIV [1920], p. 179—180, 2 Fig.)
 — Eine neue Art von *Pterula*. (Ibidem p. 15—16.)
- Yates, H. S.** The comparative histology of certain Californian *Boletaceae*. (Univ. Calif. Publ. Bot. VI [1916], p. 221—274, Pl. XXI—XXIV.)
- York, H. H.** Late seasonal production of aecia of *Cronartium ribicola*. (Phytopathology X [1920], p. 111.)
- York, H. H. and Spaulding, P.** The overwintering of *Cronartium ribicola* on *Ribes*. (Phytopathology VIII [1918], p. 617—619.)
- Young, Esther.** Studies in Porto Rican parasitic Fungi II. (Mycologia VIII [1916], p. 42—46.)
- Zahlbruckner, A.** Schedae ad „Kryptogamas exsiccatas“ editae a Museo Palatino Vindobonensi. Centuria XXII Fungi (Decades 82—88). (Ann. K. K. Hofmus. Wien XXVIII [1914], p. 121—129.)
 — Schedae ad „Kryptogamas exsiccatas“ editae a Museo Palatino Vindobonensi Centuria XXIII. — Fungi. (Decades 85—88.) (Ann. K. K. Naturhist. Hofmus. Wien XXIX [1915], p. 454—467.)

- Zahlbruckner, A.** Schedae ad „Kryptogamas exsiccatas“ editae a Museo Palatino Vindobonensi: Centuria XXIV. — Fungi (Decades 89—91). (Ann. K. K. Naturhist. Hofmus. Wien XXX [1916], p. 197—207.)
- Zeller, Sanford M.** The development of the carpophores of *Ceriumyces Zelleri*. (Mycologia VI [1914], p. 235—239, Pl. 140—141, 12 Figs.)
- Zillig, H.** Verbreitung der *Ustilago violacea* (Pers.) Fuck. (Ann. mycol. XIII [1920], p. 136—153.)
— Unsere heutigen Kenntnisse von der Verbreitung des Antherenbrandes (*Ustilago violacea* [Pers.] Fuck.). — Nachträge und Berichtigungen. (Ann. Mycol. XIX [1921], p. 145.)
- Zundel, George L.** Some *Ustilagineae* of the State of Washington. (Mycologia XII [1920], p. 275—281.)
-
- Bachmann, E.** Über Pilzgallen auf Flechten. (Vorl. Mitteil.) (Berichte d. Deutsch. Bot. Gesellschaft XXXVIII [1920], p. 333—338, 1 Abb. im Text.)
- Burnham, Stewart H.** Lichens of the Berkshire Hills, Massachusetts. (The Bryologist XXI [1918], p. 29—32.)
- Cajander, A. K.** Über Waldtypen. (Acta Iorrestalia fennica I [Helsingforsiae 1913], p. 1—175.)
— Studien über die Moore Finlands. (Ibidem II [1913], 208 pp.)
- Church, A. H.** The Lichen Symbiosis. (Journ. of Botany LVIII [1920], p. 213—219; p. 262—267.)
- Claassen, E.** Second alphabetical list of the lichens collected in several counties of Northern Ohio. (Ohio Journ. Sci. XVIII [1917], p. 62—63.)
- Cotton, A. D.** Lichenes (Nachtrag). (Sarasus et Roux: Nova Caledonia Vol. I, Liel. II [Berlin u. Wiesbaden 1920], p. 109.)
- Danilov, A. N.** The relation between *Gonidia* and *Hyphae* in Lichens. (Journ. of Bot. LVI [1918], p. 169—181.)
- Durfee, Thomas.** Lichens of the Mt. Monadnock Region N. H. — No. 7. (The Bryologist XIX [1916], p. 65—66.)
— Lichens of the Mt. Monadnock Region N. H. — No. 8. (Ibidem XX [1917], p. 47—48.)
— Lichens of the Mt. Monadnock Regions N. H. — No. 9. (Ibidem XX [1917], p. 99.)
— Lichens of the Mt. Monadnock Region, N. H. — No. 10. (The Bryologist XXI [1918], p. 18.)
— Lichens of the Mt. Monadnock Region, N. H. — No. 11. (The Bryologist XXII [1919], p. 15—16.)
- Evans, A. W.** Lichens and Bryophytes at *Cinchona*. (Science 2. Ser. XLIII [1916], p. 918.)
- Fink, Bruce.** A new genus and species of the Collemaceae. (Mycologia X [1918], p. 235—238, Pl. XIII.)
— Additions to Lichen Distribution in North America. (Mycologia XI [1919], p. 296—307.)
- Gallge, Olaf.** The Lichen Flora and Lichen Vegetation of Iceland. (Arbejder fra den botaniske Have i Kobenhavn No. 92 [1919—1920], 247 pp.)
- Handel-Mazzetti, Heinr. Freiherr von.** Die Vegetationsverhältnisse von Mesopotamien und Kurdistan. (Ann. K. K. Naturhist. Wien XXVIII [1914], p. 48—111.)

- Hauman-Merck, L.** Les Parasites végétaux des plantes cultivées en Argentine et dans les régions limitrophes. — Lichenes. (Anales Mus. Nac. Hist. Nat. Buenos Aires XXVI [1915], p. 163 ff.)
- Herre, A. C.** Preliminary Notes on the Lichens of Whatcom County, Washington. (The Bryologist XX [1917], p. 76—84, 1 Fig.)
 — Notes on Mexican Lichens. (The Bryologist XXIII [1920], p. 3—4.)
 — Hints for Lichen Studies. (Ibidem p. 26—27.)
 — Alaskan Notes. (Ibidem p. 37—38.)
- Howe, R. H.** An interesting tropical lichen new to the United States. (Torreya XVI [1916], p. 50, 26 Fig.)
 — A further note on the lichens of Nantucket. (Rhodora XX [1918], p. 46.)
- Lettau, G.** Nachträge zur Lichenenflora von Ost- und Westpreußen. (Schriften d. Physikal.-Ökonom.-Ges. Königsberg i. P. LX [1919], 1920, p. 5—21.)
- Linkola, K.** Einige bemerkenswerte Flechtenfunde aus Süd- und Mittelfinland. (Meddel. Soc. Faun. Flor. Fenn. XLV [1918—1919], p. 92—98.)
 — Kulturen mit Nostoc-Gonidien der Peltigera-Arten. (Annales Societatis Zoolog. — Botanicae Fennicae Vanamo Tom. I [Helsinki 1920], p. 1—23, 1 Tafel, 7 Abb.)
- Longman, H. A. and White, C. T.** The Flora of a Single Tree. — Lichenes (determined by Mr. E. Cheel). — (Proceed. Roy. Soc. Queensl. XXIX, No. 6 [1917], p. 68—69.)
- Mac Caughey, V.** Lichen flora of the Hawaiian Islands. (Hawaiian Forester. XIV [1917], p. 303—304.)
- Mameli, Eva.** Ricerche fisiologiche sui Licheni. I. Idrati di Carbonio. (Atti Istist. Bot. R. Univ. Pavia e Laborat. crittog. ital. XVII [1920], p. 147—157.)
 — Licheni della Sardegna. — Primo contributo. (Ibidem p. 159—173.)
 — Licheni della Cirenaica. — Secondo contributo. (Ibidem p. 175—183.)
- Merrill, Dudley.** Lichens of the Mt. Monadnock Region, N. H. — No. 12. (The Bryologist XXIII [1920], p. 78.)
- Moxley, G. L.** Additions to the lichen flora of southern California. (Bull. So. Calif. Acad. Sci. XVII [1918], p. 61—62.)
- Plitt, Charles C.** A short history of Lichenology. (The Bryologist XXII [1919], p. 77—85.)
- Riddle, Lincoln W.** The genus *Parmeliopsis* of Nylander. (The Bryologist XX [1917], p. 69—76, Pl. XX, 2 Fig.) Als neue Combinationen werden aufgeführt: *Parmeliopsis aleurites* var. *diffusa* (Ach.) Riddle und *P. diffusa* (Weber) Riddle.
 — Some noteworthy lichens from Jamaica. (Bull. Torrey Bot. Club XLIV [1917], p. 321—330, Pl. XXI.)
 — *Pyrenothrix nigra*, gen. et sp. nov. (Bot. Gazette LXIV [1917], p. 513—515, with 4 Fig.)
 — Lichens. In Britton, N. L. Flora of Bermuda [1918], p. 470—479.
 — Two Publications on Tropical American Lichens. (The Bryologist XXIII [1920], p. 60—61.)
- Smith, A. Lorrain and Ramsbottom, J.** Is *Pelvetia canaliculata* a Lichen? (New Phytologist XIV [1915], p. 295—298.)
- Steiner, J.** Aufzählung der von J. Bornmüller im Oriente gesammelten Flechten. (Ann. K. K. Naturhist. Hofmus. Wien XXX [1916], p. 24—39.)
- Suza, J.** *Rinodina oreina* var. *mougeotioides*, (Nyl.) Zahlbr. na Moravě. (Sborník klábu Prérodo vědeckého v Brně za období 1914—1919, Rč II. Brünn 1919, 5 pp.)

- Suza, J.** Zur Flechtenflora der Sandformation des Marchfeldes. (Verhandl. naturf. Ver. Brünn LVII [1920], p. 100—106.)
- Tobler, F.** Schwendeners Flechtentheorie und die heutige Auffassung. (Berichte d. Deutsch. Bot. Gesellsch. XXXVIII [1920], p. (10)—(19).)
- Die Wolbecker Flechten-Standorte. (Hedwigia LXIII [1921], p. 7—10.)
- **Strato, Cl.** Über Wachstum und Regeneration des Thallus von *Peltigera canina*. (Ibidem p. 11—42, 13 Abb.)
- Uhlir, A.** Isolace ras Collemacéen. (Zur Methodik der Isolierung der Collemaceen-Algen.) (Bull. Congr. Böhm. Naturf. u. Ärzte Prag, V [1915].)
- Victorin, Fr. M.** Mosses, Hepatics and Lichens of the Quartzite Hills of the Kamouraska Formation, Quebec, Canada. (The Bryologist XIX [1916], p. 60—64.)
- Watson, W.** Lichens of Llanberis and District. (Journ. of Bot. LVIII [1920], p. 108—110.)
- The bryophytes and lichens of fresh water. (Journ. Ecolog. VII [1919], p. 71—83.)
- Wheldon, J. A.** Llanberis Lichens. (Journ. of Bot. LVIII [1920], p. 11—15.)
- and **Travis, W. G.** The lichens of South Lancashire. (Journ. Linn. Soc. London XLIII [1915], p. 87—136.)
- Zahlbruckner, A.** Schedae ad „Kryptogamas exsiccatas“ editae a Museo Palatino Vindobonensi. Centuria XXII. Lichenes (Decades 35—55). (Ann. K. K. Naturhist. Hofmus. Wien XXVIII [1914], p. 134—145.)
- Schedae ad „Kryptogamas exsiccatas“ editae a Museo Palatino Vindobonensi. Centuria XXIII. Lichenes (Decades 56—58). (Ann. K. K. Naturhist. Hofmus. Wien XXIX [1915], p. 472—479.)
- Schedae ad „Kryptogamas exsiccatas“ editae a Museo Palatino Vindobonensi. Centuria XXIV. Lichenes (Decades 59—61). (Ann. K. K. Naturhist. Hofmus. Wien XXX [1916], p. 210—218.)
- Zanfrognini, Carlo.** Pugillo di Licheni corticicoli della Somalia. (La Nuova Notarisia XXVIII [1917], p. 145—175.)
- Intorno la *Caloplaca citrina* e la sua autonomia rispetto agli stati leprosi di altri Licheni. (La Nuova Notarisia XXVI [1915], p. 155—165.)

VI. Moose.

- Allen, C. E.** Sex inheritance in *Sphaeocarpos*. (Proceed. Americ. Philos. Soc. LVIII [1919], p. 289—316, 27 Fig.)
- The Spermatogenesis of *Polytrichum juniperinum*. (Ann. of Bot. XXXI [1917], p. 269—291, Pl. XV—XVI.)
- Amann, J.** Nouvelles additions et rectifications à la Flore des Mousses de la Suisse. (Bull. Soc. Vaud. Sci. Nat. LIII, No. 198 [1920], p. 81—125, Fig. 1—18.)
- Andrews, A. Le Roy.** Two extensions of range. (The Bryologist XXX [1916], p. 37—38.)
- Notes on North American Sphagnum VII. The Group *Cuspidata* Lindberg (contin.), p. 84—89.
- A collection of Mosses from North-Carolina. (Ibidem XXI [1918], p. 61—67, 6 Fig.)
- Bryological Notes III. Further mosses new to Iceland. (Torreya XVII [1917], p. 60—62.)
- *Dicranoweisia crispula* in the White Mountains. (Rhodora XXI [1919], p. 207—208.)
- **A. Hesselbo** — The Bryophyta of Iceland. (The Bryologist XXII [1919], p. 4—5.)

- Andrews, A. Le Roy.** Mosses of Madagascar. (Ibidem p. 27—28.)
- Notes on North American Sphagnum. VIII. The Group Cuspidata Lindberg (contin.). (Ibidem p. 45—49.)
 - T. Herzog, Die Bryophyten meiner zweiten Reise durch Bolivia. — Bibliotheca Botanica, Heft 87. — Stuttgart 1916. (The Bryologist XXIII [1920], p. 9—10.)
 - Hymenostemum in North-America. I. Delimitation of the genus. (Ibidem p. 28—31.)
 - Tortula caroliniana, new species. (Ibidem p. 72—76, Pl. V.)
- Armitage, Eleanora.** On the habitats and frequencies of some Madeira bryophytes. (Journ. Ecol. VI [1918], p. 220—225.)
- Bailey, John W.** Adventures in Mossland: Polytrichadelphus Lyallii Mitt. (The Bryologist XXIII [1920], p. 49—50.)
- Bastow, R. A.** Victorian Hepaticae. (Victorian Naturalist XXXI [1914], p. 74—81, Pl. 11.)
- Beals, A. T.** Tortula pagorum (Milde) De Not., near Harpers Ferry W. Va. (The Bryologist XXIII [1920], p. 33—35, Pl. I, 1 Fig.)
- Benedict, Charlotte.** Vegetative Sproßbildung an den Archegonständen von Fimbriaria Zollingeri St. (Engl. Bot. Jahrb. LVI [1921], p. 415—428, 7 Fig. im Text.)
- Bequaert, J.** On the Dispersal by Flies of the Spores of certain Mosses of the Family Splachnaceae. (The Bryologist XXIV [1921], p. 1—4.)
- Bristol, B. Muriel.** On the gemmae of Tortula mutica Lindb. (Ann. of Bot. XXXIV [1920], p. 137—139, 1 Fig.)
- On the remarkable retention of vitality of Moss Protonema. (New Phytologist XV [1916], p. 137—143, 3 Fig.)
- Britton, Elizabeth G.** Notes on Fissidens. I. Difficulties in Determining the Oldest Species. (The Bryologist XIX [1916], p. 87—89.)
- Further Notes on Jagerinopsis, Broth. (The Bryologist XXI [1918], p. 80.)
 - Porotrichum not Thamnobryum. (Ibidem p. 83—84.)
 - Mosses from Florida collected by Severin Rapp. (The Bryologist XXI [1918], p. 27—28.)
 - The Catkin-Hypnum, with Long Hoses. (Ibidem p. 32.)
 - Jagerinopsis squarrosa, n. sp. (Ibidem p. 48—50, Pl. XXIV.)
 - Encalypta. A Revision of the North American Species by Dorothy Coker. (Ibidem p. 3—4.)
 - Mosses of Bermuda in Britton, N. L. the Flora of Bermuda, p. 430—448. (The Bryologist XXII [1919], p. 87.)
- Brotherus, V. F. et Okamura, Shutai.** Ishibaea, novum Brachytheciacearum genus ex Japonia. (Tokyo Bot. Mag. XXIX [1915], p. 186—188, 1 Tab.)
- Musci novi paraguenses. (The Bryologist XX [1917], p. 47.)
 - Contributions à la flore bryologique de l'Écuador. (Revue bryologique XLVII [1920], p. 1—16, 35—46.)
 - Muscineae apud Chioevenda: Le piante raccolte dal Dr. Nello Beccari in Eritrea nel 1905. (Nuov. Giorn. Bot. Ital. XXVI [1919], p. 111—112.)
- Bryan, George S.** The Archegonium of Catharinaea angustata Brid. (Atrichum angustatum.) (Bot. Gazette LXIV [1917], p. 1—20, Pl. I—VII.)
- Burnham, Stewart H.** Hepaticae of the Lake George Flora. (The Bryologist XXII [1919], p. 33—37.)

- Burnham, Stewart H.** The Mosses of the Lake George Flora. (The Bryologist XXIII [1920], p. 17—26; p. 38—45; p. 54—60.)
- *Camptothecium nitens* var. *falcifolium* Ren. (*C. nitens* var. *falcatum* [Peck] Burh.). (Ibidem p. 92.)
- Bush, B. F.** The Mosses of the Pech Catalogue-Missouri. (The Bryologist XIX [1916], p. 52—60.)
- Demetrios Missouri Mosses. (Ibidem p. 71—73.)
- Butler, Mrs. Abigail.** Mosses and lichens exhibited at Chicago. (The Bryologist XXIII [1920], p. 32.)
- Cajander, A. K.** Über Waldtypen. (Acta forrestalia fennica I [Helsingforsiae 1913], p. 1—175.)
- Studien über die Moore Finnlands. (Ibidem II [1913], 208 pp., 20 Taf.)
- Campbell, D. H.** Studies in some East Indian Hepaticae. *Calobryum Blumei* N. ab E. (Ann. of Bot. XXXIV [1920], p. 1—12, Pl. I, 6 Textfig.)
- Studies on some East Indian Hepaticae. (Ann. of Bot. XXXII [1918], p. 319—338, Pl. VIII—IX, 10 Fig.)
- Cardot, J.** Une rectification. (The Bryologist XIX [1916], p. 10.)
- Casares-Gil, A., y Beltrán-Bigorra, F.** Flora briológica de la Sierra de Guadarrama. (Junta para Ampliación de Estudios e Investigaciones científicas Ser. Botánica, No. 1 [1912], 50 pp., 8^o.)
- Enumeración y Distribución geográfica de las Muscineas de la Península Ibérica. (Trab. Museo Nac. Cienc. Nat. Ser. Botánica, No. 8 [1915], 179 pp., 3 mapas, 7 figuras.)
- Chamberlain, Edward B.** A Herbarium Note. (The Bryologist XXII [1919], p. 39—40.)
- Flore des mousses de la Suisse Review. (Ibidem p. 41—43.)
- Notes on recent bryological literature. (The Bryologist XXII [1919], p. 28—29.)
- Notes on current bryological literature. (Ibidem p. 43.)
- *Anacamptodon splachnoides* var. *Tayloriae* in Missouri. (The Bryologist XXII [1919], p. 16.)
- Notes on current bryological literature. (The Bryologist XXIII [1920], p. 61—62.)
- Chase, Agnes.** List of Writings on Bryophytes by Rev. E. J. Hill. (The Bryologist XX [1917], p. 41.)
- Cribbs, J. E.** A *Columella* in *Marchantia* polymorpha. (Bot. Gazette LXV [1918], p. 91—96, Pl. I—II.)
- Culman, P.** Muscinées spéciales à l'Auvergne. (Revue bryologique XLVII [1920], p. 65—69.)
- Notes sur les Dicranacées et en particulier sur le mémoire de M. Hagen sur cette famille. (Bull. Soc. Bot. France LXVII [1920], p. 198—207.)
- Dixon, H. N.** On a collection of Bornean mosses made by the Rev. C. H. Binstead. (Journ. Linn. Soc. London Bot. XLIII [1916], p. 291—323, Pl. XXVI—XXVII.)
- *Mnium antiquorum* Cardot and Dixon, an extinct moss. (The Bryologist XIX [1916], p. 51—52.)
- „*Chatubinskia*“ a further correction. (Ibidem XXI [1918], p. 80—81.)
- *Hypnum falcatum* (Brid.) var. nov. *delicatum* Dixon. (Journ. of Bot. LVI [1918], p. 360—361.)
- Reports upon two Collections of Mosses from British East Africa. (Smithson. Miscellan. Collect. Vol. LXXII [1920], 20 pp., Pl. I—II.)
- Contributions to antractic bryology. — Mosses of Deception Island, Mosses from South Georgia. (The Bryologist XXIII [1920], p. 65—71, Pl. IV.) Es sind neu beschrieben folgende Arten: *Bryum crateris*, *Andreaea subremotifolia*, *Verrucidens intermedius*.

- Dixon, H. N.** *Camptothecium nitens* var. *falcatum* (Peck) Burnham. (Ibidem p. 92.)
 — *Rhaphidostegium caespitosum* (Sw.) and its Affinities. (Journ. of Bot. I.VIII [1920], p. 81—89.)
- Douin, C.** Les variations du gamétophyte chez les Céphaloziellacées. (Rev. génér. de Bot. XXVIII [1916], p. 251—256; 257—288, Pl. XI—XV; p. 300—320, Pl. XVI—XIX; p. 329—352.)
 — Le capitule du *Marchantia polymorpha* expliqué par Leitgeb et ses disciples. (Rev. génér. Bot. XXXII [1920], p. 57—71.)
- Dunham, Elizabeth Marle.** How to know the mosses, a popular guide to the mosses of the north-eastern United States. (Boston 1916, XXV u. 287 pp., 8^o.)
 — How to know the mosses without the Aid of a Lens. (The Bryologist XIX [1916], p. 19—23.)
 — Fungus-Spores in a Moss-Capsule. (The Bryologist XIX [1916], p. 89—90.)
 — Unusual Habitats. (Ibidem XX [1917], p. 98—99.)
 — Mounting mosses for exhibition purposes. (The Bryologist XXIII [1920], p. 6.)
- Durand, Elias J.** *Encalypta laciniata* in Central New York. (The Bryologist XXII [1919], p. 13.)
- Dutton, D. Lewis.** *Buxbaumia indusiata* Brid., from Brandon, Vermont. (The Bryologist XXIV [1921], p. 8.)
- Emig, W. H.** Mosses as Rock Builders. (The Bryologist XXI [1918], p. 25—27, Pl. XV—XVI.)
 — *Octodiceras Julianum* Brid. var. *ohioense*, new variety. (Ibidem p. 60—61.)
- Evans, Alexander W.** Abruzzi Hepaticae. (Revue Bryologique XLVII [1920], p. 57—58.)
 — Report on the Hepaticae of Alaska. (Bull. Torr. Bot. Club XLI [1915], p. 577—616, Pl. XXI.)
 — Additions to the Hepatic Flora of Quebec. (The Bryologist XIX [1916], p. 27—30.)
 — Notes on North American Hepaticae. VII. (Ibidem XX [1917], p. 17—28, Pl. II.)
 — Notes on North American Hepaticae. VIII. (The Bryologist XXII [1919], p. 54—72, Pl. II, 15 Textfig.) Neue Combinationen: *Nardia rubra* (Gottsche), Evans = *Jungermannia rubra* (Gottsche) und *Porella Cordaeana* (Hübén.), Evans = *Jungermannia Cordaeana* (Hübén.).
 — Three South American species of *Asterella*. (Bull. Torr. Bot. Club XLVI [1919], p. 469—480.) — (Contrib. Osborn Bot. Laborat. Yale University 1919, No. 11.)
 — The North American Species of *Asterella*. (Contr. U. S. Nat. Herb. Washington XX, Part. 8 [1920], p. 247—312.)
- Fructuoso, Gonzalo y Tristanchó.** Excursiones briológicas por la Provincia de Badajoz. (Trab. Mus. Nac. Cienc. Naturales Madrid. — Serie Botanica, No. 6 [1914], 16 pp.)
- Frye, T. C.** Illustrated Key to the Western Ditrichaceae. (The Bryologist XX [1917], p. 49—60, Pl. IV—XIX.)
 — The *Rhacomitrium*s of Western North-America. (The Bryologist XX [1917], p. 91—98, Pl. XX—XXIII; Vol. XXI [1918], p. 1—16, Pl. I—XIV.)
 — Illustrated Key to the Western Sphagnaceae. (Ibidem XXI [1918], p. 37—48, Pl. XVII—XXIII.)
 — Notes on useful and harmful mosses. (The Bryologist XXIII [1920], p. 71.)
- Gaisberg, E. v.** Beiträge zur Kenntnis der Lebermoosgattung *Riccia*. (Flora N. F. XIV [1921], p. 262—277.)
- Garjeanne, A. J. M.** Über *Haplozia caespiticia* Dum. (Recueil trav. bot. néerl. Soc. bot. néerl. Groningen XVII [1920], p. 205—217, 6 Fig.)

- Gibbs, S. S.** The Genus *Calobryum*. (Journ. of Bot. LVIII [1920], p. 275.)
- Graham, Margaret.** Centrosomes in Fertilization Stages of *Preissia quadrata* (Soop.) Nees. (Ann. of Bot. XXXII [1918], p. 415—420, Pl. X.)
- Grout, A. J.** The moss flora of New York City and vicinity. (New Dorp [N. Y.] 1916, 120 pp., 12 Pl., 8°.)
- Mosses of Colorado from Tolland and Vicinity. (The Bryologist XIX [1916], p. 1—8.) Darin als neue Kombinationen: *Drepanocladus aduncus* (Hedw.) Warnst. *pseudofluitans* (Sanio) Grout und *D. Kneiffii* (B. et S.) Warnst. *intermedius* (B. et S.) Grout.
- A fossil *Camptothecium*. (The Bryologist XX [1917], p. 9, Pl. I.) Als neu beschrieben: *Camptothecium Woldenii* n. sp.
- Mosses Notes I. (The Bryologist XX [1917], p. 37—38, 1 Fig.)
- Moss Notes II. Two *Pogonatum*s. (The Bryologist XXII [1919], p. 37—38, 1 Fig.)
- Györfy, J.** Bryologische Beiträge zur Flora der Hohen Tatra. (Ungar. Bot. Blätter XVIII [1919], p. 18—26.)
- Bryologische Seltenheiten XIII. (*Hedwigia* LXIII [1921], p. 48—49, 1 Textabb.)
- Hagen, J.** A correction in nomenclature. (The Bryologist XIX [1916], p. 70.)
- Haynes, Caroline Coventry.** *Drepanolejeunea*, a genus new to North American Hepaticae. (The Bryologist XIX [1916], p. 83—86, Pl. III.)
- and **Eyans, Alexander W.** Sullivant Moss Society exchange list of Hepaticae found in the United States, Canada, and Arctic America. (The Bryologist XXI [1918], p. 87—90.)
- List of French Hepaticae collected by Major George H. Conklin, M. R. C. (The Bryologist XXII [1919], p. 27.)
- Herzog, Th.** Die Lebermoose der 2 Freiburger Molukkenexpeditionen und einige neue Arten der engeren Indomalaya. (Beih. z. Bot. Centralbl. Bd. XXXVIII, 2. Abt. [1921], p. 318—332, Abb. 1—11.)
- Hill, E. J.** Notes on Funaria. (The Bryologist XIX [1916], p. 35—37.)
- *Fossombronia crispula* in the Dune Region of Indiana. (Ibidem p. 67—68.)
- Hodgetts, William J.** Vegetative Production of flattened *Protonema* in *Tetraphis pellucida*. (New Phytologist XIX [1915], p. 43—49, 1 Fig.)
- Holzinger, John M.** A review of Dr. Hagen's Norwegian *Dicranaceae*, distributed October 13, 1915. (The Bryologist XIX [1916], p. 9.)
- Two reviews of Japanese Mosses. (Ibidem p. 48.)
- A. J. Grout: The Moss Flora of New York City and Vicinity. (The Bryologist XX [1917], p. 28—29.)
- H. N. Dixon: *Miscellanea Bryologica* VI. (The Bryologist XXIII [1920], p. 7—9.)
- Dr. Correns investigations and sterile mosses. (Ibidem p. 27—28.)
- *Bartramiopsis Iescurii*. (The Bryologist XXIII [1920], p. 35—36.)
- Dixon and Watts on Antarctic Mosses. (The Bryologist XXIII [1920], p. 47.)
- On our American Form of *Timmia megapolitana* Hedw. (Ibidem p. 86—88, Fig. 1—5.)
- Howe, Marshall A.** Notes on North American Species of *Riccia*. (The Bryologist XX [1917], p. 33—36, Pl. III.) Neu beschrieben: *Riccia McAllisteri* sp. nov.
- Hurst, C. T.** East Wiltshire Mosses and Hepatics. (Journ. of Bot. LVI [1918], p. 181—186.)
- *Philonotis caespitosa* var. *adpressa* Dismier in Britain. (Ibidem LVI [1918], p. 250.)
- North Somerset Mosses. (Journ. of Bot. LVI [1918], p. 268—270.)

- Hurst, C. P.** East Wiltshire Bryophytes. (Journ. of Bot. LVIII [1920], p. 141—147.)
- Hutchinson, A. H.** Gametophyte of *Pellia epiphylla*. (Bot. Gaz. LX [1915], p. 134—143, Plate 1—IV, 1 Fig.)
- Jäggi, M.** Le attuali conoscenze di briologia ticinese. (Verhandl. Schweiz Naturf. Gesellsch. 100. Jahresvers. [1919 in Lugano], p. 111—112.)
- Janzen, P.** Die Blüten der Laubmoose. Ein Beitrag zur Kenntnis ihrer äusseren und inneren Gestalt (Schluß). (Hedwigia LXII [1921], p. 241—281.)
- J(ennings), O. E.** Odor of *Conocephalus*. (The Bryologist XIX [1916], p. 86.)
- *Pterygophyllum acuminatum* at Ohio Pyle, Pennsylvania. (The Bryologist XX [1917], p. 100.)
- Notes on the Mosses of Northwestern Ontario. I. *Sphagnum*. (Ibidem XXI [1918], p. 69—78, Pl. XXVII.)
- Certain organic substances assimilated by *Ceratodon purpureus*. (The Bryologist XXI [1918], p. 86.)
- Notes on recent bryological literature. (Ibidem p. 90—91.)
- *Schistostega osmundacea*, the Luminous Moss. (The Bryologist XXII [1919], p. 74.)
- Bryophytes and Lichens on Fell-Fields. (The Bryologist XXII [1919], p. 74.)
- Ingham, W.** Mosses and hepatics of the magnesium limestone of West Yorkshire (continued). (Rev. Bryologique XLI [1914], 1919, p. 77—82.)
- Irmischer, E.** Neue Fissidens-Arten aus Brasilien und Bolivien. (Notizbl. Bot. Gart. u. Mus. Berlin-Dahlem VII [1921], p. 533—537.)
- Kaiser, George B.** Mosses rare in Philadelphia. (The Bryologist XIX [1916], p. 69.)
- Little Journeys into Mossland. I. Early bryological Experiences. (The Bryologist XXIII [1920], p. 88—90.)
- Little Journeys in to Mossland. II. A January Thaw. (The Bryologist XXIV [1921], p. 5—6.)
- Kashyap, S. R.** The Androecium in *Plagiochasma appendiculatum* L. et L. and *P. articulatum* Kashyap. (New Phytologist XVIII [1919], p. 235—238, 2 Fig.)
- Note on *Targionia hypophylla*. (New Phytologist XVI [1917], p. 228—229.)
- Morphological and biological Notes on new and little known West-Himalayan Liverworts III. (New Phytologist XIV [1915], p. 1—18, 7 Fig.)
- Latham, Roy.** Habitat of *Cephalozia Francisci* on Long Island, N. Y. (The Bryologist XX [1917], p. 63—64.)
- Musci Hosts of *Cyphella muscigena* Fr. (The Bryologist XXIII [1920], p. 7.)
- Levy, Daisy J.** Some experiments on the germination of Moss Spores on Agar. (The Bryologist XX [1917], p. 62—63.)
- A station for *Ephemerum* near New York City. (The Bryologist XXI [1918], p. 33.)
- Preliminary List of Mosses collected in the neighborhood of Hulett's Landing, Lake George, N. Y. (The Bryologist XXII [1919], p. 23—26.)
- Lignier, O.** Sur une mousse houillère à structure conservée. (Bull. Soc. Linn. Normandie VI [1914], p. 128—131, 1 Fig.)
- Longman, H. A. and White, C. T.** The Flora of a Single Tree. — Musci et Hepaticae (determined by Rev. W. W. Watts). (Proceed. Roy. Soc. Queensl. XXIX No. 6 [1917], p. 68.)
- Lorenz, Annie.** Notes on *Nardia crenuliformis* (Aust.) Lindb. (The Bryologist XIX [1916], p. 24, Pl. II.)
- Notes on the Hepaticae of Mt. Ktaadn. (The Bryologist XX [1917], p. 41—46, 2 Fig.)

- Lorenz, Annie.** Notes on *Radula obconica* Sull. (The Bryologist XXI [1918], p. 56—85, Pl. XXV.)
- Moeller's Distribution of Mosses in Sweden. (The Bryologist XXIII [1920], p. 46.)
- Some Hepaticae from Matinicus Island, Maine. (The Bryologist XXIII [1920], p. 1—3.)
- Lowe, Rachel L.** Collecting in Arkansas. (The Bryologist XXII [1919], p. 14—15.)
- Collecting in Oklahoma. (Ibidem p. 21—22.)
- *Rhacomitrium sudeticum*, a moss new to Worcester County, Massachusetts. (The Bryologist XXIII [1920], p. 4—5.)
- Mac Caughey, Vaughan.** A survey of the Hawaiian Land Flora. Musci. (Bot. Gaz. LXIV [1917], p. 111—112.)
- Medelius, Sigfrid.** Bryologiska notiser från Öland. (Bot. Notiser för År, 1921, p. 23—31, 15 Fig.)
- Möller, Hj.** Lövmossornas utbredning i Sverige. 5 Polytrichaceae I. (Arkiv f. Bot. XVI [1921], No. 3, p. 1—84, 2 tavlor.)
- Moxley, George L.** *Lunularia cruciata* (L.) Dumort., in the Open. (The Bryologist XIX [1916], p. 70.)
- Müller, Fr.** Zur Moosflora des oberen Nahetals. (Sitzungsber. Naturhist. Ver. preuß. Rheinlande u. Westfalens [1917—1919], 1919 [Bonn 1920], D., p. 3—18.)
- Nagai, Isaburo.** Über rote Pigmentbildung bei einigen Marchantia-Arten. (Tokyo Bot. Mag. XXIX [1915], p. 90—98, ill.)
- Nanz, Ralph S.** Note on *Buxbaumia indusiata* Bridel. (The Bryologist XX [1917], p. 64.)
- Nicholson, W. E.** *Riccia Crozalsii* Lev. in West Cornwall; a Correction. (Journ. of Bot. LVI [1918], p. 360.)
- Mosses from the Caspian and Black Sea Regions. (The Bryologist XXIII [1920], p. 90—91.)
- Okamura, Shutai.** Contributiones novae ad floram bryophyton Japonicam Pars secunda. (Journ. Coll. Sci. Tokyo XXXVIII [1916], No. 4, 100 pp., 42 Fig.)
- O'Keefe, Lillian.** Structure and Development of *Targionia hypophylla*. (New Phytologist XIV [1915], p. 105—116, 2 Fig.)
- Pearson, W. H.** *Pedinophyllum pyrenaicum* (Spruce) Lindb. (Journ. of Bot. LVI [1918], p. 233—235.)
- *Aplozia Pendletonii* Pearson n. sp. (The Bryologist XXIII [1920], p. 50—52, 8 Fig., Pl. II.)
- *Aplozia Pendletonii* Pearson. (Ibidem p. 84—85, 3 Fig.)
- *Porella rivularis* (Nees) Lindb. (Ibidem p. 85—86.)
- Potier de la Varde, R.** Contribution à la Flore bryologique du Kikouyou (Afrique orientale anglaise). (Revue bryologique XLVII [1920], p. 49—56.)
- *Bartramia stricta* Brid., sur le littoral de la Manche. (Revue bryol. XLVII [1920], p. 73.)
- Pottier, Jacques.** La parenté des Andréacées et des Hépatiques et un cas tératologique qui la confirme. (Bull. Mus. d'Hist. nat. 1920, No. 4, p. 337—344.)
- Sur la généralité de l'asymétrie foliaire chez les Mousses. (Compt. Rend. Acad. Sci. Paris T. CLXX [1920], p. 471—474, 7 Fig.)
- Recherches sur le développement de la feuille des Mousses. (Chartres, Imprimerie Durand [1920], 144 pp., Pl. I—XXX et Pl. fotogr. I—II, 8°.)
- Rapp, S.** A List of Mosses from Sanford, Florida. (The Bryologist XXII [1919], p. 50—54.)

- Rhodes, P. G. M.** Some bryological photographs from North Wales. (*The Bryologist* XIX [1916], p. 26—27, Pl. I.)
- Rickett, H. W.** Regeneration in *Sphaerocarpos Donnellii*. (*Bull. Torr. Bot. Club* XLVII [1920], p. 347—357, 25 Fig.)
- Rivett, M. F.** The Structure of the Cytoplasm in the Cells of *Alicularia scalaris*, Cord. (*Ann. of Bot.* XXXII [1918], p. 207—214, Pl. VI, 3 Textfig.)
- Robbins, William J.** Direct assimilation of organic carbon by *Ceratodon purpureus*. (*Bot. Gazette* LXV [1918], p. 543—551, 5 Fig.)
- Samuelsson, Gunnar.** Några Marchantiacéfynd jämtc en översikt av Nordens Marchantiaceer. (*Svensk Bot. Tidskr.* XIV [1920], p. 129—135.)
- Schacke, Martha A.** A chromosome difference between the sexes of *Sphaerocarpos texanus*. (*Science* XLIX [1919], p. 218—219.)
- Schedae ad Floram Romaniae exsiccata** a Museo Botanico Universitatis Clusienensis edita. Centuria I (1921), p. 6—7. (*Bullet. de Inform. Cluj I* [1921].) Darin sind genannt: *Aneura multifida* (L.) Dum., *Moerckia Flotowiana* (Nees) Schiffn., — *Blyttii* (Moerch) Brockm., *Sphagnum recurvum* P. Beauv. var. *maius* Aongstr. — *cymbifolium* Ehrh. var. *fuscescens* Warnst., *Cinclidotus aquaticus* (Jacq.) Br. eur.
- Seymour, M. E.** Mosses of the Cascade Mountains, Washington collected by J. A. Allcn. (*The Bryologist* XXII [1919], p. 85—86.)
- Sherrin, W. R.** The Lamellae of *Polytrichum*. (*Journ. of Bot.* LVI [1918], p. 105—107, Fig. 1—11.)
- Skene, Macgregor.** The Acidity of *Sphagnum* and its Relation to Chalk and Mineral Salts. (*Ann. of Bot.* XXIX [1915], p. 65—87.)
- Smith, Annie Morrill.** The early history of the Bryologist and the Sullivant Moss-Society. (*The Bryologist* XX [1917], p. 1—8.)
- Sørensen, S.** Eidsvoll lǿvmossflora. Jagttagelser over lǿvmossernes utbredelse i Eidssooll i femaaret 1909—1914. (*Nyt Mag. for Naturvidensk.* LVIII [1920], p. 1—28.)
- Stallard, Harvey.** The origin of *Sphagnum* Atolls. (*New Phytologist* XV [1916], p. 250—256.)
- Standley, Paul C.** Additional Notes upon new Mexican Hepaticae. (*The Bryologist* XIX [1916], p. 64—65.)
— *Sphagnum* in Glacier National Park, Montana. (*The Bryologist* XXIII [1920], p. 5—6.)
- Stephani, Franz.** Hepaticae apud Chiovenda: Le piante raccolte dal Dr. Nello Becchari in Eritrea nel 1905. (*Nuov. Giorn. Bot. Ital.* XXVI [1919], p. 112—113.)
— Hepaticae (Nachtrag). (*Sarasin et Roux: Nova Caledonia* Vol. I, Lief. II [Berlin u. Wiesbaden 1920], p. 110.)
- Taylor, Aravilla.** Mosses as Formers of Tufa and of Floating Islands. (*The Bryologist* XXII [1919], p. 38—39.)
— Occurrence of *Funaria hygrometrica* (L.) Sibth. (*The Bryologist* XXIV [1921], p. 7—8.)
— Appearance of Mosses in ecological Habitats. (*The Bryologist* XXIII [1920], p. 81—84.)
- Thérlet, J.** Considérations sur la flore bryologique de la Nouvelle-Calédonie et diagnoses d'espèces nouvelles. I. (*Revue bryol.* XLVII [1920], p. 69—71.)
— Une rectification à propos du *Stereodon lignicola* Mitt. (*Ibidem* p. 71—72.)
- Victorin, Fr. M.** Mosses, Hepatics, and Lichens of the Quartzite Hills of the Kamouraska Formation, Quebec, Canada. (*The Bryologist* XIX [1916], p. 60—64.)

- Wager, H. A.** A check list of the mosses of South Africa. (Publ. Transvaal Museum, Pretoria [1917], 20 pp.)
- Warnstorf, C. †.** Die Unterfamilie der Scapanioideen (Spruce 1885). (Hedwigia LXIII [1921], p. 58—80.)
- Watson, W.** The bryophytes and lichens of fresh water. (Journ. Ecol. VII [1919], p. 71—83.)
- Sphagna, their Habitats, Adaptations, and Associates. (Ann. of Bot. XXXII [1918], p. 535—551, 5 Fig.)
- A Somerset Heath and its bryophytii Zonation. (New Phytologist XIV [1915], p. 80—93, 7 Fig.)
- Wettstein, Fritz von.** Splachnaceenstudien I. Entomophilie und Spaltöffnungsapparat. (Österr. Bot. Zeitschr. LXX [1921], p. 65—77, 1 Taf., 1 Textfig.)
- Wheldon, J. A.** Drepanocladus aduncus (Hedw.) var. Wheldoni Ren. in N. Somerset. (Journ. of Bot. LVI [1918], p. 273.)
- Williams, R. S.** Grinnia (Guembelia) brevisrostris, sp. nov. (The Bryologist XXIII [1920], p. 52—53, Pl. III.)
- Sematophyllum Smallii sp. nov. (Ibidem p. 76—78, Pl. VI.)
- Woodburn, William L.** Spermatogenesis in Mnium affine, var. ciliaris (Grev.) C. M. (Ann. of Bot. XXIX [1915], p. 441—456, Pl. XXI.)
- Yasuda, Asushi.** Eine neue Art von Bartramia. (Tokyo Bot. Mag. XXIX [1915], p. 23—24, Pl. III.)
- Eine neue Art von Plagiothecium. (Tokyo Bot. Mag. XXX [1916], p. 89—91, 9 Fig.)
- Eine neue Art von Polystictus — P. nipponicus Yasuda. (Ibidem p. 291—292, 1 Textfig.)
- Zahlbruckner, A.** Schedae ad „Kryptogamas exsiccatas“ editae a Museo Palatino Vindobonensi Centuria XXII — Musci (Decades 48—49). (Ann. K. K. Naturhist. Hofmus. Wien XXVIII [1914], p. 145—149.)
- Schedae ad „Kryptogamas exsiccatas“ editae a Museo Palatino Vindobonensi Centuria XXIII — Musci (Decades 50). (Ann. K. K. Naturhist. Hofmus. Wien XXIX [1915], p. 479—481.)
- Schedae ad „Kryptogamas exsiccatas“ editae a Museo Palatino Vindobonensi Centuria XXIV — Musci (Decades 51—53). (Ann. K. K. Naturhist. Hofmus. Wien XXIV [1916], p. 219—225.)

VII. Pteridophyten.

- Andrews, E. F.** Habits and habitats of the North American resurrection fern. (Torrey XX [1920], p. 91—96, 1 Fig.)
- Aston, B. C.** The Vegetation of the Tarawera Mountains, New Zealand. (Transact. New Zeal. Inst. XLVIII [1915] 1916, p. 304—314, Pl. XIX—XXII.)
- Bancroft, N.** Note on vegetative reproduction in some Indian Selaginellas. (Ann. of Bot. XXVIII [1914], p. 685—693, Pl. XLIX, 7 Textfig.)
- A contribution to our knowledge of Rachiopteris cylindrica. Will. (Ann. of Bot. XXIX [1915], p. 531—565, Pl. XXVI—XXVII, Fig. 1—17.)
- Barratt, Kate.** A Contribution to our Knowledge of the Vascular System of the Genus Equisetum. (Ann. of Bot. XXXIV [1920], p. 201—235, Pl. VI, 24 Textfig.)
- B. D.** Fougères utiles. (Revue Horticole XCI [1919], p. 330—331.)
- Berry, Edward W.** A middle Eocene Goniopteris. (Bull. Torrey Bot. Club XLIV [1917], p. 331—335, Pl. XXII.) — *Goniopteris claiborniana* Berry.

- Bertsch, K.** Neue Gefäßpflanzen unserer Flora. (Jahresh. Ver. vaterl. Naturk. Württemberg LXXVI [Stuttgart 1920], p. 62—75.) — *Equisetum trachyodon* A. Braun.
- Bicknell, Eugene P.** The ferns and flowering plants of Nantucket — XVIII. (Bull. Torr. Bot. Club XLIV [1917], p. 369—387.)
- Bower, F. O.** Studies in the phylogeny of the Filicales VI. Ferns showing the „acrostichoid“ condition, with special reference to dipterid derivatives. (Ann. of Bot. XXXI [1917], p. 1—39, Pl. 1—II, 15 Fig.)
- Studies in the Phylogeny of the Filicales V. *Cheiropleuria bicuspis* (Bl.), Presl. and certain other related Ferns. (Ann. of Bot. XXIX [1915], p. 495—529, 19 Fig., Pl. XXIV—XXV.)
- Studies in the Phylogeny of the Filicales. Ferns showing the „Acrostichoid“ Condition, with special reference to Dipterid Derivates. (Ann. of Bot. XXXI [1917], p. 1—39, Pl. I, II, 15 Fig.)
- Studies in the Phylogeny of the Filicales. VII. The Pteroidae. (Ann. of Bot. XXXII [1918], p. 1—68, 43 Fig.)
- Brade, Alexander Curt.** Die Farnflora der Umgebung der Stadt Sao Paulo. (Deutsch. Ver. f. Wissensch. u. Kunst, Sao Paulo [1920], p. 39—61.)
- Brown, Elizabeth Dorothy Wulst.** The value of nutrient solutions as culture media for fern prothallia. (Torreya XX [1920], p. 76—83, 2 Fig.)
- Browne, Isabel, M. P.** A second contribution to our knowledge of the anatomy of the cone and fertile Stem of *Equisetum*. (Ann. of Bot. XXIX [1915], p. 231—264, Pl. XII—XIV.)
- A third contribution to our knowledge of the anatomy of the cone and fertile stem of *Equisetum*. (Ann. of Bot. XXXIV [1920], p. 237—263, Pl. VIII—IX, 7 Fig.)
- A fourth contribution to our knowledge of the anatomy of the cone and fertile stem of *Equisetum*. (Ann. of Bot. XXXV [1921], p. 427—456, Pl. XXI, 12 Textfig.)
- Phylogenetic considerations on the internodal vascular strands of *Equisetum*. (New Phytologist XIX [1920], p. 11—25, 7 Fig.)
- Burnham, Stewart H.** Commercial fern gathering. (Amer. Fern Journ. IX [1919], p. 88—93.)
- The ferns of the Lake George flora, N. Y. II. (Am. Fern Journ. VI [1916] p. 97—105; VII [1917], p. 12—15; p. 54—63.)
- Buscalioni, Luigi.** Sui Tricomi delle Felci con particolare riguardo alle Parafisi. (Malpighia [1917] 18, 40 pp., Par. 1—II.)
- Butters, F. K.** Taxonomic and Geographic Studies in North American Ferns. I. The Genus *Athyrium* and the North American Ferns allied to *A. Filix femina*. II. *Botrychium virginianum* and its American Varieties. (Rhodora XIX [1917], p. 169—207, Pl. 123, 1—5 Fig.; p. 207—216, Fig. 6.)
- Cajander, A. K.** Über Waldtypen. (Acta forestalia fennica I [Helsingforsiae 1913], p. 1—175.)
- Studien über die Moore Finnlands. (Ibidem II [1913], 208 pp., 20 Taf.)
- Campbell, Douglas Houghton.** The Structure and Affinities of *Macroglossum Alidae*, Copeland. (Ann. of Bot. XXVIII [1914], p. 651—669, Pl. XLVI—XLVIII.)
- The eusporangiate Ferns and the Stellar Theory. (Am. Journ. Bot. VIII [1921], p. 303—314, 7 Fig.)
- The Gametophyte and Embryo of *Botrychium obliquum*, Mühl. (Annals of Bot. XXXV [1921], p. 141—158, Pl. VIII and II Fig.)

- Campbell, Douglas Houghton.** The genus *Botrychium*. (Proceed. National Acad. Sci. U. S. A. VI [1920], p. 502—503.)
- Carse, H.** The Ferns and Fern Allies of Mongonui County, with some Notes on abnormal Forms. (Transact. New Zeal. Inst. XLVII [1914], 1915, p. 76—93.)
— Some further Additions to the Flora of the Mongonui County. (Transact. New Zeal. Inst. XLVIII [1915] 1916, p. 237—243.)
- Chamberlain, Charles J.** Prothallia and sporelings of three New Zealand species of *Lycopodium*. (Bot. Gazette LXIII [1917], p. 51—65, Pl. II—III.)
— Grouping and mutation in *Botrychium*. (Bot. Gazette LXX [1920], p. 387—398, 11 Textfig.)
- Cheeseman, T. F.** Contributions to a Fuller Knowledge of the Flora of New Zealand No. 5. (Transact. New Zeal. Inst. XLVI [1913], 1914, p. 7.) — Darin sind genannt: *Doodia media* R. Br.; *Asplenium Trichomanes* L.; *Nephrodium glabellum* A. Cunn.; *Polypodium Billardieri* R. Br.
- Chiovenda, G.** Polypodiaceae in Le piante raccolte dal Dr. Nello Beccari in Eritrea nel 1905. (Nuov. Giorn. Bot. Ital. XXVI [1919], p. 111.)
- Christensen, Carl.** Maxonia, a new genus of tropical American ferns. (Smiths. Miscell. Coll. LXII [1916], No. 9, 4 pp.)
— New Polypodiums from tropical America. (Amer. Fern Journ. VII [1917], p. 33—35.) — *Polypodium steirolepis* and *P. tobagense*.
— et **Skottsberg, Carl.** The Pteridophytes of the Juan Fernandez Islands. (Upsala 1920, 46 pp., 5 Pl., 7 Fig.)
— The Ferns of Easter Island. (Upsala 1920, p. 47—53, 3 Fig.)
- Copeland, E. B.** Hawaiian Ferns collected by J. F. Rock. (Philipp. Journ. Sci. Bot. XI [1916], p. 171—173.)
- Dangeard, A. A.** Plastidome, vacuome et sphérome dans *Selaginella Kraussiana*. (Compt. Rend. Acad. Sci. Paris CLXX [1920], p. 301—306, 1 Pl.)
- Davie, R. C.** The development of the sorus and sporangium an the prothallus of *Peranema cyatheoides*, D. Don. (Ann. of Bot. XXX [1916], p. 101—110, Pl. III, 2Fig.)
— A comparative List of Fern Pinna-tracces, with some notes on the Leaf-trace in the Ferns. (Ann. of Bot. XXXII [1918], p. 233—245, 5 Fig.)
- Digby, L.** On the Archesporial and Meiotic Mitoses of *Osmunda*. (Ann. of Bot. XXXIII [1919], p. 135—172, Pl. VIII—XII, 1 Fig.)
- Edgerley, Miss K. V.** The Prothallia of three New Zealand Lycopods. (Transact. New Zeal. Inst. XLVII [1914], 1915, p. 94—111, 37 Fig.)
- Ekstrand, H.** Über die Mikrosporenbildung von *Isoëtes echinosporum*. (Svensk Bot. Tidskr. XIV [1920], p. 212—318, 2 Fig.)
- Farwell, O. A.** Fern notes. (Ann. Rep. Michigan. Acad. Sci. XVIII [1916], p. 78—94, F. 13.)
- Fiori, Adriano.** Note di Floristica Calabrese e Lucana. (Nuov. Giorn. Bot. Ital. XXVI [1919], p. 129—146.)
- Graves, E. W.** A new station for *Trichomanes Petersii*. (Amer. Fern Journ. VII [1917], p. 51—54, Pl. II—III.)
- Gwynne-Vaughan, D. T. †.** Observations on the Anatomy of the Leaf in the Osmundaceae. (Ann. of Bot. XXX [1916], p. 487—493, Pl. XIII.)
— On some Climbing *Davallias* and the petiole of *Lygodium*. (Ibidem p. 495—507, Pl. XIV, 8 Fig.)
- Handel-Mazzetti, Heinr. Freiherr von.** Die Vegetationsverhältnisse von Mesopotamien und Kurdistan. (Ann. K. K. Naturhist., Hofmus. Wien XXVIII [1914], p. 48—111.)

- Hauman, Lucien.** Notes floristiques, quelques Cryptogames, Gymnospermes et Monocotylédones de l'Argentine. (An. Mus. Nac. Hist. Nat. XXIX [1917], p. 392—394.) Pteridophytes.
- Hayata, Bunzo.** Can *Prosaptia* properly be placed under *Davallia*? i. e. is it really distinct from *Polypodium*? (Tokyo Bot. Mag. XXIX [1915], p. 161—168.)
- Hieronymus, G.** Über *Cheilanthesis* Hieron., eine neue Farngattung. (Notizbl. Bot. Gart. Mus. Berlin-Dahlem VII [1920], p. 406—409.)
- Holden, H. S.** Further observations on the wound reactions of the petioles of *Pteris aquilina*. (Ann. of Bot. XXX [1916], p. 127—134, 4 Fig.)
- Holloway, J. E.** Preliminary note on the Protocorm of *Lycopodium laterale* R. Br. (Transact. New Zeald. Inst. XLVII [1914] 1915, p. 73—75.)
- Studies in the New Zealand species of the genus *Lycopodium*. Part. I. (Transact. New Zealand Inst. XLVIII [1916], p. 253—303, Pl. XVII—XVIII, 102 Fig.)
- Studies in the New Zealand species of the genus *Lycopodium*. Part. II. Methods of vegetative reproduction. (Ibidem XLIX [1917], p. 80—93, Pl. VIII—IX, 24 Fig.)
- Studies in the New Zealand species of the Genus *Lycopodium*. Part. IV. The Structure of the Prothallus in Five Species. (Ibidem LII [1920], p. 193—239, Pl. XII—XV, 75 Textfig.)
- The Prothallus and young plant of *Tmesipteris*. (Transact. and Proceed. New Zeal. Inst. L [1917] 1918, p. 1—44, Pl. I—III, 92 Textfig.)
- Kashyap, Shiv Ram.** Notes on *Equisetum debile* Roxb. (Ann. of Bot. XXXI [1917], p. 439—445, 3 Textfig.)
- Killip, E. P.** Ferns of Jamaica. (Amer. Fern Journ. VII [1917], p. 36—50.)
- Kidston, R. and Gwynne-Vaughan, D. T.** On the fossil Osmundaceae Part. V. (Transact. Roy. Soc. Edinburgh L [1916], p. 469—480, Pls. XLI—XLIV.)
- Laing, R. M.** The Norfolk Island Species of *Pteris*. (Transact. New Zeal. Inst. XLVIII [1915] 1916, p. 229—237, 5 Fig.)
- Lang, William H.** Studies in the Morphology and Anatomy of the Ophioglossaceae. III. On the Anatomy and Branching of the Rhizome of *Helminthostachys zeylanica*. (Ann. of Bot. XXIX [1915], p. 1—54, Pl. I—III, 8 Textfig.)
- Lindström, A.** Marstrandsöns Ormbunkar och Fanerogamer. (Bot. Notiser [1920], p. 177—210.)
- Longman, H. A. and White, C. T.** The Flora of a Single Tree. — Filices. (Proceed. Roy. Soc. Queensl. XXIX, No. 6 [1917], p. 64—69.)
- Mac Caughey, Vaughan.** A survey of the Hawaiian Land-Flora. — Ferns. (Bot. Gazette LXIV [1917], p. 110—111.)
- Maillefer, Arth.** L'anatomie de l'*Equisetum arvense*. (Verhandl. Schweiz. Naturf. Gesellsch., 100. Jahresvers. [1919 in Lugano], Vorträge, p. 110.)
- Marsh, A. S.** The Anatomy of some Xerophilous Species of *Cheilanthes* and *Pellaea*. (Ann. of Bot. XXVIII [1914], p. 671—684, II Textfig.)
- Marshall, R.** Ferns of Lake Spooner. (Amer. Fern Journ. VII [1917], p. 64—65.)
- Marshall, Edward S.** Somerset Notes for 1917. (Journ. of Bot. LVI [1918], p. 136—143.)
- Martin, W.** Pteridophytes of Banks Peninsula (Eastern Portion). (Transact. Proceed. New Zeal. Inst. LII [1920], p. 315—322.)
- Maxon, William R.** Notes on western species of *Pellaea*. (Proceed. Biol. Soc. Washington XXX [1917], p. 179—184.)

- Maxon, William R.** A new Selaginella from Oklahoma and Texas. (Proceed. Biol. Soc. Washington XXXI [1918], p. 171—172)
- The Lip-Ferns of the Southwestern United States related to *Cheilanthes myriophylla*. (Proceed. Biol. Soc. Washington XXXI [1918], p. 139—151.)
- Notes on American Ferns XVI. (Am. Fern Journal XI [1921], p. 1—4.)
- Máyas, Georg.** Funde neuer Pflanzenreste aus dem Kulm von Chemnitz-Borna. (XX. Bericht Naturw. Ges. Chemnitz 1916—1919 [1920], p. 55—73, Taf. I—IV.)
- Mendelson, W.** *Ophioglossum vulgatum* — once more. (Amer. Fern Journ. VII [1917], p. 63—64.)
- Osborn, T. G. B.** Some observations on the Auber of *Phylloglossum*. (Ann. of Bot. XXXIII [1919], p. 483—516, Pl. XXVIII, 43 Fig.)
- Parish, S. B.** An enumeration of the Pteridophytes and Spermatophytes of the San Bernardino Mountains, California. (Plant World XX [1917], p. 163—178, 208—223, 245—250.)
- Pavarino, G. L.** Intorno alla Flora del Calcare e del Serpentino nell' Appennino Bobbiese. (Atti Ist. Bot. Univ. Pavia, 2. Ser. XII [1914], p. 21—56; XIV [1914], p. 19—42.)
- Pickett, F. L.** Is *Pellaea glabella* Mett. a distinct species? (Am. Fern Journ. VII [1917], p. 3—5.)
- Ridlon, H. C.** *Onoclea sensibilis* forma *obtusilobata*. (Amer. Fern Journ. VII [1917], p. 6.)
- Sahni, Birbal.** The anatomy of *Nephrolepis volubilis* J. Sm. with remarks on the biology and morphology of the genus. (New Phytologist XIV [1915], p. 251—274, Pl. IV and 7 Textfig.)
- The vascular anatomy of the tubers of *Nephrolepis*. (Ibidem XV [1916], p. 72—80, 3 Fig.)
- Observations on the evolution of branching in the Filicales. (New Phytologist XVI [1917], p. 1—23, 1 Fig.)
- On the Branching of the Zygopteridean Leaf, and its Relation to the probable „Pinna“ Nature of *Gyröpteris sinuosa*, Goeppert. (Ann. of Bot. XXXII [1918], p. 369—379, 3 Textfig.)
- On an Australian Specimen of *Clepsydropsis*. (Ann. of Bot. XXXIII [1919], p. 81—92 Pl. IV, 2 Textfig.)
- Salmon, C. E.** *Cystopteris montana* in Banitshire. (Journ. of Bot. LVIII [1920], p. 24—25.)
- Sampson, K.** The morphology of *Phylloglossum Drummondii* Kunze. (Ann. of Bot. XXX [1916], p. 316—331, 5 Fig.)
- Schinz, H.** Lycopodiales (Nachtrag). (Sarasin et Roux: Nova Caledonia Vol. I, Lief. II [Berlin u. Wiesbaden 1920], p. 112.)
- Small, John K.** The Land of Ferns. The Habitats and Distribution of the Fernworts of Florida. (Journ. Elisha Mitchell Scientif. Soc. XXXV [1920], p. 92—104, Pl. XXIV.)
- Spessard, Earle Augustus.** Prothallia of *Lycopodium* in America. (Bot. Gazette LXIII [1917], p. 66—76, 21 Fig.)
- Prothallia of *Lycopodium* in America. (Bot. Gazette LXV [1918] p. 362.)
- Standley, Paul C.** Gleicheniaceae and Cyatheaceae in Trees and Shrubs of Mexico. (Contrib. U. S. Nat.-Herb. Washington XXIII, Part. 1 [1920], p. 36—47.)
- Steil, W. N.** Method for staining Antherozoid of Fern. (Bot. Gazette LXV [1918], p. 562—563, 1 Fig.)

- Stell, W. N.** The distribution of the archegonia and the antheridia on the prothallia of some hornosporous leptosporangiate ferns. (Transact. Amer. Microscop. Soc. XXXVIII [1919], p. 271—273, 2 Fig.)
- Stojanov, N.** Für die Flora Bulgariens neue Pflanzen. (Österr. Bot. Zeitschr. LXX [1921], p. 107—111.)
- Stokey, Alma G.** Apogamy in the Cyatheaceae. (Bot. Gazette LXV [1918], p. 97—102, Fig. 1—8.)
- Stopes, Marie Carmichael.** The Missing Link in Osmundites. (Ann. of Bot. XXXV [1921], p. 55—71, Pl. II.)
- Strauß, Erich.** Ein verkieselter Kletterfarn von Chemnitz-Hilbersdorf. (XX. Bericht Naturw. Ges. Chemnitz 1916—1919 [1920], p. 46, Taf. III, Fig. 1—3.)
- Thompson, H. S.** Brake Fern on an Oak. (Journ. of Bot. LVI [1918], p. 274—275.)
- Turrill, W. B.** Contributions to the Flora of Macedonia I. — Filices. (Kew Bull. 1918, p. 339—340)
- Uphof, J. C. Th.** Contributions towards a Knowledge of the Anatomy of the Genus Selaginella. (Ann. of Bot. XXXIV [1920], p. 493—517, 13 Textfig.)
— Physiological Anatomy of Xerophytic Selaginellas. (New Phytologist XIX [1920], p. 101—131, Fig. I—XII.)
- Van Eseltine, G. P.** Selaginella funiformis, a new species in the S. rupestris Group. (Proceed. Biol. Soc. Washington XXX [1917], p. 161—162.)
- Waters, C. E.** More about early days of the American Fern Society. (Am. Fern Journ. XI [1921], p. 16—19.)
— The Ferns of Baltimore and Vicinity. (Ibidem p. 19—25.)
- Watts, W. W.** Aspidium goggilodus Schkuhr. (Journ. of Bot. LVIII [1920], p. 153.)
- West, Cyril.** On the structure and development of the secretory tissues of the Marattiaceae. (Ann. of Bot. XXIX [1915], p. 409—422, Pl. XVIII and 14 Fig.)
— A Contribution to the Study of the Marattiaceae. (Ann. of Bot. XXXI [1917], p. 361—414, Pl. XXI—XXII, 33 Textfig.)
- Wherry, Edgar T.** The Soil Reactions of the Ferns of Woods and Swamps. (Am. Fern Journ. XI [1921], p. 5—16.)
- White, C. T.** Notes on a few interesting plants collected in the vicinity of Brisbane.
— Filices: Adiantum hispidulum Sw. var. hypoglaucum Donin. (Proceed. Roy. Soc. Queensl. XXVIII, No. 10 [Brisbane 1916], p. 111.)
— Botanic Notes II. (The Queensl. Naturalist Vol. I [1913], p. 261.) Darin genannt: Gleichenia flabellata R. Br., Lindsaea incisa Prentice, Blechnum cartilagineum Sw. B. serrulatum Rich. etc.
— An interesting Lycopod (Club Moss) from Northern Queensland. (Queensl. Agricult. Journ. 1917, p. 313—314, Pl. 43.) — Lycopodium hippuris.
— Flora of the Bunya Mountains — Filices. (Queensl. Agric. Journal [Jan. 1920], p. 25—31.)
- Willis, J. C.** Further Evidence for Age and Area; its Applicability to the Ferns, etc. (Ann. of Bot. XXXI [1917], p. 335—349.)
- Yamaha, Gihei.** Einige Beobachtungen über die Zellteilung in den Archesporen und Sporenmutterzellen von Psilotum triquetrum Sw., mit besonderer Rücksicht auf die Zellplattenbildung. (Tokyo Bot. Mag. XXXIV [1920], p. 117—130.)

VIII. Phytopathologie.

- Acree, S. F.** Destruction of wood and pulp by fungi and bacteria. (Pulp & Paper Mag. XVII [1919], p. 569—571.)
- Allard, H. A.** The mosaic disease of tomatoes and petunias. (Phytopathology VI [1916], p. 328—355, Fig. 1—2.)
- The mosaic disease of *Phytolacca decandra*. (Phytopathology VIII [1918], p. 51—54, 2 Fig.)
- Anderson, H. W.** A new leaf spot to *Viola cucullata*. (Proceed. Indiana Acad. Sci. [1914], p. 187—190.)
- **P. J.** Rose canker and its control. (Massachusetts Agric. Experim. Stat. Bull., no. 183 [1918], p. 11—46, Pl. I—III, 11 Fig.)
- Anonymus.** Fusicladium in Pears. (Journ. Departm. Agric. Union of South Africa — Pretoria, Vol. III [1921], p. 22—23.)
- Le „chancree“ de la pomme de terre (*Synchytrium endobioticum*) attaque aussi la tomate, en Pensylvanie. (Weekly News Letter VIII [Washington 1921], p. 3.)
- Le „charbon“ de l'oignon (*Urocystis Cepulae*), en Angleterre. (Ministry of Agriculture and Fisheries Leaflet, No. 365 [London 1921], p. 1—6, 2 Fig.)
- Ricerche e Studi compiuti o in corso presso la R. Stazione di Patologia vegetale di Roma. (Boll. mens. inform. e notizie Roma II [1921], p. 34—36.)
- Bietenwortelbrand. (Phytopathol. Dienst, Wageningen, Vlugschr. 25 [1920], 3 pp.)
- Plantenziekten waarmede rekening moet gehouden worden by de veldkeuring. (Versl. en Mededeel. v. d. Pathologi Dienst te Wageningen, No. II [1920], 11 pp., 3 Platen.)
- Eenige Rhododendron-vijanden. (Phytopath. Dienst Wageningen, Vlugschrift II [1920], 4 pp.)
- Eenige belangrijke Rozenvijanden. (Ibidem Vlugschr. 12 [1920], 7 pp.)
- De Klaverkanker. (Phytopathol. Dienst Wageningen 1919, 4 pp.)
- Archer, Ellinor.** A Disease or teratological Malformation of Lucerne. (Proceed. Roy. Soc. Victoria N. S. XXIX [1917], p. 150—153, Pl. X.)
- Arnaud, G.** Une maladie de la „Rose de Noël“ (*Helleborus niger*). (Bull. Soc. Pathol. végét. VI [1919], p. 10—12.)
- Le Mildiou des Lilas et la maladie des cotylédons d'Erable. (Ibidem T. V [1918], p. 58—60.)
- Arthur, J. C.** Rusts of the West Indies. (Torreya XVII [1917], p. 24—27.)
- and **Malins, E. B.** Grassrusts of unusual structure. (Bull. Torrey Club XLVI [1919], p. 411—415, 2 Fig.)
- Au sujet du pays d'origine de *Puccinia Pitteriana*, urédinée nuisible à la pomme de terre, à Costa Rica, et à la pomme de terre et à la tomate, à l'Equateur. (Science n. s. LIII [1921], p. 228—229.)
- Artschwager, Ernst F.** Pathological Anatomy of Potato Blackleg. (Journ. Agric. Research. Washington XX [1920], p. 325—330, Pl. 57—58.)
- Ashby, S. F.** Notes on diseases of cultivated crops observed in 1913—1914. (Bull. Dep. Agric. no. 8 [1915], p. 299—327.)
- The Mosaic, Mottling or Yellow Stripe Disease of Cane. (Dept. Agric. Jamaica, Leaflet, 1920.)
- Atanasoff, Dimitr.** Fusarium-Blight (Scab) of Wheat and other Cereals. (Journ. Agricult. Research Washington XX [1920], p. 1—32, Pl. I—IV, 2 Textfig.)
- and **Johnson, A. G.** Treatment of cereal seeds by dry heat (Journ. Agric. Research Washington XVIII [1920], p. 379—390, Pl. 48—49.)

- Babcock, D. C.** Diseases of forest and shade trees. (Ohio Agric. Exp. Stat. Monthly Bull. I [1916], p. 291—296; p. 333—339, illustr.)
 — Diseases of ornamental plants. (Ibidem Bull. II [1917], p. 323—328, illustr.)
- Bailey, F. D.** Powdery scab of potatoes in Oregon. (Science 2 Vol. XLII [1915], p. 424—425.)
- Bakke, A. L.** The comparative rate of desiccation of tubers from normal and diseased potato plants. (Phytopathology IX [1919], p. 541—546.)
- Barrett, J. T.** Some observations on whiterip in 1914. (Proceed. Fruit Growers Conv. Calif. XLV [1915], p. 242—244.)
- Barrus M. T.** Varietal susceptibility of beans to strains of *Colletotrichum Lindemuthianum* (Sacc. and Magn.). B. et C. (Phytopathology VIII [1918], p. 589—614, Pl. 1—V.)
- Bennett, C. W.** Soft rot of pepper caused by *Bacillus carotovorus*. (Michigan Acad. Sci. Ann. Rep. XX [1918], p. 351—352, Pl. XXXVIII—XL.)
- Bernard, Ch. en Kerbosch, M.** Mijten aantekeningen. (Mededeel. Proefstat. voor Thee LXVIII [1919], p. 1—8, 3 Pl.)
 — Verschillende Ruspun-Plagen in Theetuinen. (Ibidem p. 11—33.)
 — en **Palm, B.** Over de door schimmels veroorzaakte wortelziekten van de theeplant. (Mededeel. Proefstat. voor Thee LXI [1918], 41 pp.)
- Bessey, E. A. and Mc Clintock, J. A.** Some ginseng troubles. (Ann. Rep. Sec. Michigan Board Agr. LIV [1915], p. 267—279, Fig. 1—5.)
 — and **Makemson, W. K.** Notes on the control of rye smut (*Urocystis occulta*). (Ann. Rep. Michigan State Board Agric. LVI [1917], p. 305—307, illustr.)
- Bisby, G. R.** Studies on *Fusarium* diseases of potatoes and truck crops in Minnesota. (Minnesota Agric. Experim. Stat. Bull. no. 181 [1919], p. 1—47, Fig. 1—30.)
- Blakeslee, A. F.** Lindner's roll tube method of separation cultures. (Phytopathology V [1915], p. 68—70, Pl. VII.)
- Blankinship, J. W.** Conditions of plant life in the Selby smoke zone, January 1 to July 1, 1914. (U. S. Dept. Int. Mines Bull. XCVIII [1915], p. 381—397, Pl. XXIX—XXXI, 4 Fig.)
- Blodgett, F. H.** Weather conditions and crop diseases in Texas. (Mem. Torrey Club XVII [1918], p. 74—78.)
- Bobilloff, W.** Over de oorzaak der bruine binnenbastziekte van *Hevea brasiliensis*. (Archief voor de Rubbercultuur in Ned. Indie III [1919], p. 172.)
- Bonar, L.** The rusts of the Douglas Lake region. (Michigan Acad. Sci. Ann. Rep. XX [1918], p. 277—278.)
- Borthwick, A. W. and Wilson, Malcolm.** The two rust diseases of the Spruce. (*Chrysomyxa Rhododendri* De Bary — *Chr. abietis* in Notes Roy. Bot. Gard. Edinburgh IX [1915], p. 65—69, Pl. CXLIX.)
- Botjes, J. C.** Raising phloem-necrosis and mosaic free potatoes, and a source of infection whose nature has, not yet been elucidated. (Phytopathology X [1920], p. 48—49)
- Bottomley, A. M. and Carlson, K. A.** Parasitic Attack on *Eucalyptus globulus*. A Note on *Stereum hirsutum* in Plantations in the Transvaal. (Journ. Dept. of Agric. of South Africa Vol. I [1920], p. 852—858, Pl. I—II.)
- Boyle, C.** Studies in the Physiology of Parasitism. VI. Infection by *Sclerotinia Libertiana*. (Ann. of Bot. XXXV [1921], p. 337—347, Pl. XIV.)
- Brandes, E. W.** Report of the plant pathologist. (Rep. Porto Rico Agric. Experim. Stat. 1916 [1918], p. 147—198, Pl. LXX—CXI.)

- Brandes, E. W.** Banana wilt. (Phytopathology IX [1919], p. 339—389. Pl. XXI—XXXIV, Fig. 1—5.)
- The mosaic disease of sugar cane and other grasses. (U. S. Dept. Agric. Bull. no. 829 [1919], p. 1—26. Pl. I, Fig. 1—5.)
 - Artificial and insect transmission of sugar-cane mosaic. (Journ. Agric. Research XIX [1920], p. 131—138.)
 - Distribution of *Fusarium cubense*, E. F. S., the cause of banana wilt. (Michigan Acad. Sci. Ann. Rep. XX [1918], p. 271—275.)
 - Mosaic disease of Corn. (Journ. Agric. Research Washington XIX [1920], p. 517—521, Pl. XCV—XCVI.)
- Brann, J. W. and Vaughan, R. E.** Potato Scab. (Bull. Agric. Experim. Stat. Univ. Wisconsin, No. 331 [1921], 27 pp., 11 Fig.)
- Brèthes, Jean.** Description de six cécidomyiidae (Dipt.) de Buenos Aires. (Anales Mus. Nac. Hist. Nat. Buenos Aires XXVI [1914], 1915, p. 151—156.)
- Brierley, William B.** On a tree of *Aesculus Pavia* killed by *Botrytis cinerea*. (Kew Bull. 1917, p. 315—331, Pl. VII, 2 Textfig.)
- A Phoma disease of Lavender. (Kew Bull. 1916, p. 113—131, Pl. V and VI and 9 Textfig.)
 - Note on a *Botrytis* Disease of Fig Trees. (Ibidem p. 225—229, Pl. VIII—IX.)
- Briggs, L. J., Jensen, C. A. and Mc Lane, J. W.** The mulched-basin system of irrigated Citrus culture and its bearing on the control of mottle-leaf. (U. St. Dept. Agric. Bull. 499 [1917], 31 pp., 1 Pl.)
- Briosi, Giovanni e Farneti, Rodolfo.** Intorno alla causa della moria dei castagni (Mal dell' Inchiostro) ed al mezzi per combatterla. (Atti Ist. Bot. Univ. Pavia XIV [1914], p. 47—51.)
- Nuove osservazioni intorno alla moria dei castagni (Mal dell' inchiostro) e sua riproduzione artificiale. Quarta nota preliminare. (Ibidem p. 327—334.)
 - Rassegna Crittogamica per l'anno 1917, con notizie sulle malattie delle patate dovute a parassiti vegetali. (Atti Ist. Bot. Univ. Pavia XVII [1920], p. 265—276.)
- Brooks, C. and Fisher, D. F.** Brown-rot of prunes and cherries in the Pacific northwest. (U. S. Dept. Agric. Bull. 368 [1916], p. 1—10, Pl. 1—3.)
- Brooks, F. T.** A disease of plantation Rubber caused by *Ustulina zonata*. (New Phytologist XIV [1915], p. 152—164, 6 Fig.)
- An account of some field observations on the development of Potato Blight. (New Phytologist XVIII [1919], p. 187—200, 2 Fig.)
- Brown, J. G.** Rot of date fruit. (Bot. Gazette LXIX [1920], p. 521—529, Fig. 1—5.)
- Brown, N. A. and Harvey, R. B.** Heart-rot, rib-rot and leaf-spot of Chinese cabbages. (Phytopathology X [1920], p. 81—90, Fig. 1—4.)
- Brown, William.** On the Physiology of Parasitism. (New Phytologist XVI [1917], p. 109—127.)
- Bryan, Mary K.** A Bacterial Budrot of Cannas. (Journ. Agric. Research Washington XXI [1921], p. 143—152, Plates XXXI—XXXVIII.)
- Bugnon, P.** Sur une mode d'attaque et de contamination parasitaires des feuilles de lierre (*Hedera Helix* L.) déterminé par la pluie. (Bull. Soc. mycol. France XXXVI [1920], p. 172—174, 1 Fig.)
- Burkholder, W. H.** The anthracnose disease of the raspberry and related plants. (Cornell Agric. Experim. Stat. Bull. no. 395 [1917], p. 155—183, Fig. 12—21.)
- Butler, O.** On the preservation of phytopathological specimens in their natural colors. (Phytopathology VIII [1918], p. 66—68.)
- Byars, L. P.** *Tylenchus tritici* on wheat. (Phytopathology VII [1917], p. 56—57.)

- Caesar, L. et Howitt, J. E.** The more important insects and diseases attacking the peach trees. (Ontario Dept. Agric. Bull. 241 [1916], p. 41—51, Fig. 22—28.)
- Caffrey, D. J.** Biology and economic importance of *Anastatus semiflavus*, a recently described Egg Parasite of *Hemileuca oliviae*. (Journ. Agric. Research Washington XXI [1921], p. 373—384, Pl. LXVIII.)
- Campos, F. O.** El Canker del Cacao. (Revista Agric. XVI [1920], p. 53—55.)
- Capus, J.** Note sur le développement de quelques maladies des plantes pendant la sécheresse. (Bull. Soc. Pathol. végét. T. V [1918], p. 94—96.)
- Cardiff, J. D.** Twenty-sixth annual report. (Washington Agric. Experim. Stat. Bull. 136 [1917], 66 pp., 17 Fig.)
- Carpenter, C. W.** Bean spot disease. (Hawaii Agric. Experim. St. Ext. Bull. VIII [1918], 4 pp., 2 Fig.)
- A new disease of the Irish potato. (Phytopathology VIII [1918], p. 286—287, Pl. 1.)
- Preliminary report on root rot in Hawaii (Lathina cane deterioration, pineapple wilt, taro rot, rice root rot, banana root rot). (Hawaii Agric. Experim. Stat. Bull. LIV [1919], p. 1—8, Pl. I—VIII.)
- Carsner, E.** Susceptibility of various plants to curly-top of sugar beet. (Phytopathology IX [1919], p. 413—421, 7 Fig.)
- Chalot, Ch. et Bernard, U.** Culture et préparation de la Vanille. — Maladies et ennemis du Vanillier. — Parasites végétaux. (L'Agronomie Coloniale [1918], p. 75—82.)
- Chapman, G. H.** Effect of colored light on the mosaic disease of tobacco. (Science 2. ser. XLIII [1916], p. 537—538.)
- Chiffot, J.** Sur la présence de l'Ergot de Seigle sur le Blé dit du Manitoba. (Bull. Soc. mycol. France XXXIV [1918], p. 192—194.)
- Chi-Ping.** Some inhabitants of the round gall of the golden roset. (Journ. Entom. and Zool. VII [1915], p. 161—179.)
- Chivers, A. H.** The injurious effects of tarvia fumes on vegetation. (Phytopathology VII [1917], p. 32—36.)
- Chupp, C.** Studies on clubroot of cruciferous plants. (Cornell Agric. Experim. Stat. Bull. 387 [1917], p. 421—452, Fig. 95—110.)
- Clinton, G. P.** Infection experiments of *Pinus Strobus* with *Cronartium ribicola*. (Bull. Conn. Agric. Experim. Stat. no. 214 [1919], p. 428—459, Pl. XXXVI—XLIV.)
- Inspection of phaenogamic herbaria for rusts on *Ribes* spp. (Ibidem p. 423—427.)
- Ciute, W. N.** The barberry and the wheat rust. (Amer. Bot. XXIV [1918], p. 85—87.)
- Colizza, Corrado.** Sopra una malattia poco nota del Giaggiolo perdotta dalla *Septoria Iridis* Massal. (Le Stazioni Sperimentali Agrarie Italiane, Vol. LIII [1920], p. 494—504, 1 Tav.)
- Coión, E. D.** La enfermedad de la rayas. Hechos establecidos y deducciones practicas. (Puerto Rico Dept. Agric. Circ. XIV [1918], 8 pp.)
- Compere, G.** Blight-resistant pear stocks. (Monthly Bull. Calif. State Comm. Hort. IV [1915], p. 67—68.)
- Condit, J. J. and Stevens, H. J.** „Die back“ of the fig in California. (Mo. Bull. State Comm. Hort. Calif. VIII [1919], p. 61—63, Fig. 34—35.)
- Cook, T.** Bordeaux mixture. (New Jersey Agric. Experim. Stat. Circular 48 [1917], 7 pp.)
- Common Diseases of Berries. (New Jersey Agric. Experim. Stat. Circular 88 [1918], 11 pp., 6 Fig.)
- Common diseases of Garden Vegetables and Truck Crops. (New Jersey Agric. Experim. Stations Circular 89 [1918], 23 pp., 12 Fig.)

- Cook, T.** Seed and soil Treatment for Vegetable Diseases. (New Jersey Agric. Experim. Stat. Circular 106 [1918], 4 Fig.)
- and **Martin, W. H.** Diseases of Tomatoes. (Ibidem Circular 104 [1918], 15 pp., 6 Fig.)
- and **Helyar, P. J.** Diseases of grains and forage crops. (New Jersey Agric. Experim. Stat. Circular 102 [1918], 15 pp., 4 Fig.)
- Coons, G. H.** Notes on Michigan plan diseases in 1916. (Ann. Rep. Michigan State Board Agric. LVI [1917], p. 310—317.)
- Oat smut. (Ibidem p. 308—309.)
- A Phoma disease of celery. (Ibidem p. 318.)
- Michigan potato diseases. (Michigan Agric. Experim. Stat. Spec. Bull. no. 85 [1918], 49 pp., 41 Fig.)
- and **Levin, E.** The Septoria leaf spot disease of celery, or celery blight. (Michig. Agric. Experim. Stat. Special Bull. LXXVII [1916], 8 pp., 9 Fig.)
- The Septoria leaf spot of celery or celery blight. (Michigan Agric. Experim. Stat. Rep. XXIX [1916], p. 372—378, Fig. 2—9.)
- The relation of weather to epidemics of late blight of potato. (Ann. Rep. Michigan State Board Agric. LVI [1917], p. 317—318.)
- and **Nelson, R.** The plant diseases of importance in the transportation of fruits and vegetables. (Chicago 1918, 60 pp., 98 Fig.)
- and **Levin, E.** The leaf spot disease of tomato. (Michigan Agric. Experim. Stat. Spec. Bull. LXXXI [1917], 15 pp., 7 Fig.)
- Cooper, J. R.** Methods of controlling blister canker. (Nebraska Agric. Experim. Stat. Bull. no. 161 [1917], 18 pp., 7 Pls.)
- Studies of the etiology and control of blister canker on apple trees. (Nebraska Agric. Experim. Stat. Research Bull. XII [1917], 117 pp., 24 Pl.)
- Cosens, A.** and **Sinclair, T. A.** Acriferous tissue in Willow galls. (Bot. Gazette LXII [1916], p. 210—225, Pl. II—IV, 5 Fig.)
- Cotton, A. D.** Host Plants of *Synchytrium endobioticum*. (Kew Bull. [1916], p. 272—275.)
- Diseases of Parsnips—Studies from the Pathological Laboratory: VI. (Kew Bull. [1918], p. 8—21, Pl. III—IV.)
- **Richard T.** Rice Weevil (*Calandra*) *Sitophilus Oryza*. (Journ. Agric. Research Washington XX [1920], p. 409—422, Pl. LX.)
- Tamarind Pod-Borer, *Sitophilus linearis* (Herbst.). (Ibidem p. 439—446, Pl. LXI.)
- Crabbill, C. H.** Note on apple root-rot in Virginia. (Phytopathology VI [1916], p. 159—161, Fig. 1.)
- Note on the white spot of alfalfa. (Phytopathology VI [1916], p. 91—93, Fig. 1—2.)
- and **Thomas, H. E.** Stippen and spray injury. (Ibidem p. 51—54.)
- Cunningham, G. C.** Studies in clubroot. II. Disease resistance of crucifers; methods of combating club-root. (Vermont Agr. Exp. Stat. Bull. CLXXXV [1914], p. 67—96, Pl. I—IX.)
- Dalbey, N. E.** Corn disease caused by *Phyllachora graminis*. (Phytopathology VII [1917], p. 55—56, 1 Fig.)
- *Phyllachora* as the cause of a disease of corn, and a general consideration of the genus *Phyllachora*. (Transact. Illinois Acad. Sci. X [1917], p. 230—248, Fig. 3—9.)
- Dana, B. F.** A preliminary note on foot-rot of cereals in the Northwest. (Science 2. Ser. L [1919], p. 484—485.)

- Dana, B. F. and Zundel, G. L.** A new corn smut in Washington. (Phytopathology X [1920], p. 328—330, Fig. 1—4.)
- Dastur, Jehangir Fardunji.** The Mode of Infection by Smut in Sugar-cane. (Ann. of Bot. XXXIV [1920], p. 391—397, 10 Fig.)
- *Choanephora cucurbitarum* (B. and Rav.) Thaxter on Chillies (*Capsicum* spp.). (Ann. of Bot. XXXIV [1920], p. 399—403, Pl. XIX.)
- *Glomerella cingulata* (Stoneman) Spauld. and V. Sch. and its conidial forms, *Gloeosporium piperatum* E. and E. and *Colletotrichum nigrum* E. and Hals., on Chillies and *Carica papaya*. (Ann. Appl. Biol. VI [1920], p. 245—268, Pl. X.)
- Davis, J. J.** *Tilletia* on wheat in North Dakota. (Phytopathology VIII [1918], p. 247.)
- Detwiller, S. B.** Battling the pine blister rust. (Amer. Forestry XXIV [1918], p. 451—457.)
- Results of white pine blister-rust control in 1919. (Phytopathology X [1920], p. 177—180.)
- Dodge, B. O.** Fungi producing Heart-Rot of Apple Trees. (Mycologia VIII [1916], p. 5—15, Pl. 173—176.)
- Doidge, Ethel M.** Some Diseases of the Potato. (Agricult. Journ. Union South Africa VIII [1914], p. 50—55, 3 Pl.)
- Some Diseases of Potato. (Agric. Journ. Union of South Africa — Pretoria VIII [1914], p. 205—211, 6 Fig.)
- The eradication of Citrus Canker. (Journ. Dept. of Agric. Union of South Africa, Vol. I [1920], p. 124—134.)
- A Tomato Canker l. c. p. 718—721, 1 Fig.
- Crown-Gall. — *Bacterium tumefaciens*. Smith and Townsend. (Journ. Departm. Agric. Union of South Africa III [July 1921], p. 64—67, ill.)
- Doolittle, S. P.** A new infections mosaic disease of cucumber. (Phytopathology VI [1916], p. 145—147.)
- Cucumber scab caused by *Cladosporium cucumerinum*. (Rep. Michigan Acad. Sci. XVII [1916], p. 87—116.)
- and **Gilbert, W. W.** Seed transmission of cucurbit mosaic by the wild cucumber. (Phytopathology IX [1919], p. 326—327.)
- Downes, H.** Herbarium Pests. (Journ. of Bot. LVIII [1920], p. 251—252.)
- Doyer, L.** Fusariumbefall des Getreides. (Angew. Bot. III [1921], p. 75—84.)
- Drechsler, C.** Cotyledon infection of cabbage seedlings by *Pseudomonas campestris*. (Phytopathology IX [1919], p. 275—282, 6 Fig.)
- Dudley, J. E. and Wilson, H. F.** Combat Potato Leafhopper with Bordeaux. (Univ. of Wisconsin Agric. Experim. Stat. Madison Bull. no. 334 [July 1921], 31 pp., 17 Fig.)
- **P. H.** Fungi the cause of decomposition of timber. (Wood-Preserving V [1918], p. 26—35, Fig. 1—10.)
- Earle, F. S.** The resistance of cane varieties to the yellow stripe or mosaic disease. (Porto Rico Dept. Agric. Ins. Expt. Stat. Bull., No. 19 [1919].)
- Eradication as a means of control in sugar-cane mosaic or yellow-stripe. (Ibidem Bull. XXII [1919].)
- The year's experience with sugar-cane mosaic or yellow-stripe disease. (Journ. Dept. Agric. Porto-Rico, Vol. III, No. 4 [1919], 1920.)
- Edgerton, C. W.** Effect of temperature on *Glomerella*. (Phytopathology V [1915], p. 247—259, Fig. 1—4.)
- A new method of selecting tomatoes for resistance to the wilt disease. (Science 2. Ser. XLII [1915], p. 914—915.)

- Edson, H. A.** Vascular Discoloration of Irish Potato Tubers. (Journ. Agric. Research Washington XX [1920], p. 277—294.)
- Ehrenberg, Paul.** Die Gewinnung von Mutterkorn bei unseren Roggenernten. (Mitteil. d. Deutsch. Landw. Gesellsch. XXXVI [1921], p. 58.)
- Ehrhorn, E. M.** New pests on the mainland (Hawaiian Forest. and Agric. XVII [1920], p. 35—36.)
- Elliot, C.** Bacterial oat blight. (Phytopathology VIII [1918], p. 489—490.)
- **J. A.** The sweet potato „soil rot“ or „pox“, a slime mold disease. (Delaware Agric. Experim. Stat. Bull. 114 [1916], p. 1—25, Pl. I—V, Fig. 1—13.)
- An *Alternaria* on *Sonchus*. (Bot. Gazette LXII [1916], p. 414—416, 1 Fig.)
- Storage rots of sweet potatoes. (Arkansas Agric. Experim. Stat. Bull. no. 144 [1918], p. 1—15, Pl. I—IV.)
- Wood-rots of peach trees caused by *Coriulus prolificans* and *C. versicolor*. (Phytopathology VIII [1918], p. 615—617, 2 Fig.)
- Arkansas peach diseases. (Univ. Ark. Agric. Experim. Stat. Bull. no. 149 [1918], 9 pp., 5 Pl.)
- Erwin, A. T.** Late potato blight in Iowa. (Iowa Agric. Experim. Stat. Bull. 163 [1916], p. 287—305, 8 Fig.)
- Late potato blight epidemics in Iowa as correlated with climatic conditions. (Proceed. Iowa Acad. Sci. XXIII [1916], p. 583—592, Fig. 49—53.)
- Erz, A. A.** The true nature of plant diseases. (Amer. Bot. XXVI [1920], p. 20—23.)
- Escherich, K.** Ein großer Fortschritt in der Schädlingbekämpfung. (Mitteil. d. Deutsch. Landw. Gesellsch. XXXVI [1921], p. 237.)
- Essig, E. O.** The *Chrysanthemum* gall fly, *Diathromomyia hypogaea* F. Sow. (Journ. Econom. Entom. IX [1916], p. 461—468.)
- Ewart, Alfred J.** On Bitter Pit and the Sensitivity of Apples to Poison. (Proceed. Roy. Soc. Victoria N. S. XXVI [1913], p. 12—44, Pl. III—V.)
- On Bitter Pit and Sensitivity to Poisons. (Ibidem N. S. XXVI [1914], p. 228—242, Pl. XXIII.)
- The Cause of Bitter Pit (Ibidem N. S. XXX [1917], p. 15—20.)
- Farmer, J. B. and Horne, A. S.** On Brown Bast and its immediate cause. (The India-rubber Journal LXI [1921], p. 25.)
- Fauli, J. H.** *Fomes officinalis* (Vill.) a timber destroying fungus. (Transact. Roy. Canad. Inst. Toronto II [1916], p. 185—209, Pl. XVIII—XXV.)
- Faulwetter, R. C.** The *Alternaria* leaf-spot of cotton. (Phytopathology VIII [1918], p. 98—105, 3 Fig.)
- Fawcett, G. L.** A Porto Rican disease of bananas. (Porto-Rico Agric. Experim. Stat. Rep. 1915 [1916], p. 36—41, Pl. III.)
- **H. S.** Citrus scab. (Phytopathology VI [1916], p. 442—445.)
- A *Pythiacystis* an avocado trees. (Ibidem p. 433—435.)
- Melanose of citrus. (Month. Bull. State Corn. Hort. Calif. VI [1917], p. 280—281, Fig. 86.)
- The geographical distribution of the Citrus diseases, melanose and stem-end rot. (John Hopkins Univ. Circ. 293 [1917], p. 190—193.)
- Some relations of temperature to growth and infection in the Citrus scab fungus *Cladosporium Citri*. (Journ. Agric. Research Washington XXI [1921], p. 243—253.)
- Felt, E. P.** A study of gall midges, III. (XXX Rep. State Entomol. New York Museum Bull. no. 180 [1916], p. 127—288.)
- Fernald, H. T.** The pine blister rust. (Month. Bull. State Comm. Hort. Calif. VII [1918], p. 451—453, Fig. 60—61.)

- Fischer, Ed.** Über eine Mehltaukrankheit, die gegenwärtig im botanischen Garten in Bern auf *Prunus Laurocerasus* auftritt. (Verhandl. Schweiz. Naturf.-Gesellsch. 100. Jahresvers. [1919 in Lugano] Vorträge, p. 112.)
- Die Vererbung der Empfänglichkeit von Sorbusarten für die Gymnosporangien. (Ibidem p. 112—113.)
- Fisher, D. F.** Apple powdery mildew and its control in the arid regions of the Pacific northwest. (U. S. Dept. Agric. Bull. no. 712 [1918], p. 1—28, Pl. I—III, 2 Fig.)
- Control of apple powdery mildew. (U. S. Dept. Agric. Formers' Bull. no. 1120 [1920], 9 pp., 8 Fig.)
- and **Newcomer, E. J.** Controlling important fungous and insect enemies of the pear in the humid sections of the Pacific northwest. (U. S. Dept. Agric. Farm. Bull. no. 1056 [1919], p. 1—34, Fig. 1—18.)
- Floyd, B. F.** Dieback, or exanthema of citrus trees. (Florida Agric. Experim. Stat. Bull. 140 [1917], 31 pp., 15 Fig.)
- Fluke, Jr. L. C.** The Pea Moth: How to Control it. (Agric. Experim. Station Univ. of Wisconsin-Bulletin, No. 310 [1920], 12 pp., 9 Fig.)
- Fox, A.** Nut-fall and leaf-droop of cocoanut palms in Cuba. (Cuba Rev. XVII [1918], p. 12—15.)
- Fracker, S. E.** Effect of crown gall on apple nursery stock. (Phytopathology VIII [1918], p. 247.)
- Varietal susceptibility to false blossom in cranberries. (Ibidem X [1920], p. 173—175.)
- Fraser, W. P.** The cereal rusts. (Ann. Rep. Quebec Soc. for Protection of Plants from Insects and Fungous Diseases VII [1915], p. 116—120.)
- Fred, E. B. and Haas, A. R. C.** The etching of marble by roots in the presence and absence of bacteria. (Journ. Gen. Physiol. I [1919], p. 631—368, 3 Fig.)
- Freeman, E. M.** The story of the black stem rust of grain and the barberry. (Minnesota Agric. Experim. Dis. Bull. no. XXVII [1918], p. 1—8, Fig. 1—5.)
- Fromme, F. D.** Violet root rot of alfalfa in Virginia. (Phytopathology VI [1916], p. 90.)
- *Tylenchus tritici* on wheat in Virginia. (Phytopathology VII [1917], p. 452—453, 1 Fig.)
- An automatic spore trap. (Phytopathology VIII [1918], p. 542—544, 1 Fig.)
- Cedar rust. (Virginia Hort. Soc. Ann. Rept. XXIII [1918], 11 pp.)
- Plant diseases in Virginia in 1915 and 1916. (Ann. Rep. Virginia Agric. Experim. Stat. 1915 and 1916 [1917], p. 187—192, 5 Fig.)
- and **Thomas, H. E.** The root-rot disease of the apple in Virginia. (Science 2. Ser. XLV [1917], p. 93.)
- and **Wingard, S. A.** Varietal Susceptibility of Beans to Rust. (Journ. Agric. Research, Washington XXI [1921], p. 385—404, Pl. LXIX—LXXIII.)
- Fron et Lasnier.** Sur un Chytridinée parasite de la Luzerne. (Bull. Soc. mycol. France XXXVI [1920], p. 53—61, 1 Fig.)
- Fryer, P. J.** Insect pests and fungus diseases of fruit and crops. A complete manual of growers. (Cambridge 1920, 728 pp.)
- Fuller, Claude.** The Bindweed Gall-Maker. (Agric. Journ. Union of South Africa Pretoria VIII [1914], p. 242—244.)
- Galloway, B. T.** Some of the broader phytopathological problems in their relation to foreign seed and plant introduction. (Phytopathology VIII [1918], p. 87—97.)
- Garber, R. J.** Etude sur le caractère „résistance à la rouille“ dans quelques croisements d'avoines aux États Unis. (Journal of the American Society of Agronomy XIII [1921], p. 41—43, 1 Fig.)

- Gardner, M. W.** Anthracnose of cucurbits. (U. S. Dept. Agric. Bull. no. 727, 68 pp., Pl. I—VIII, 15 Fig.)
- Peronospora in turnip roots. (Phytopathology X [1920], p. 321—322, Pl. XII.)
- and **Kendrick, James B.** Bacterial Spot of Tomato. (Journ. Agric. Research Washington XXI [1921], p. 123—156, Pl. XXIV—XXVIII.)
- Garman, H.** A bean disease introduced in diseased seeds. (Kentucky Agric. Experim. Stat. Circ. XVI [1917], p. 91—95, 1 Fig.)
- Garrett, A. O.** Smuts and rusts of Utah. If I. (Mycologia XI [1919], No. 4, p. 202—215.)
- Georgeson, C. C.** Report of the Alaska Agricultural Experiment Station 1915 [1916], 100 pp., 18 Pls.)
- Giddings, N. J.** Potato and tomato diseases. (West Virginia Agric. Experim. Stat. Bull. no. 165 [1917], 24 pp., 20 Fig.)
- Infection and immunity in apple rust. (West-Virginia Agric. Experim. Stat. Techn. Bull., no. 170 [1918], 71 pp., 11 Pls.)
- et **Berg, A.** Apple Rust. (West Virginia Agric. Exp. Stat. Bull. 154 [1915], 73 pp., 10 Pl.)
- — New or noteworthy facts concerning apple rust. (Phytopathology VI [1916], p. 29—50, 9 Fig.)
- Gilbert, A. H. and Bennett, C. W.** Sclerotinia trifoliorum, the cause of stem rot of clovers and alfalfa. (Phytopathology VII [1917], p. 432—442, 5 Fig.)
- Gilbert, W. W.** Cotton Diseases and their Control. (Farmers' Bull. no. 1187, 32 pp., 18 Fig.)
- and **Gardner, M. W.** Seed treatment control and overwintering of cucumber angular leaf spot. (Phytopathology VIII [1918], p. 229—233.)
- Gilkey, H. M.** A revision of the Tuberales of California. (Univ. Calif. Publ. Bot. VI [1916], p. 275—356, Pl. XXVI—XXX.)
- Gillespie, L. J.** The growth of the potato scab organism at various hydrogen ion concentrations as related to the comparative freedom of acid soils from the potato scab. (Phytopathology VIII [1918], p. 257—269, 1 Fig.)
- Gloyer, W. O.** Ascochyta clematidina, the cause of stem-rot and leaf-spot of Clematis. (New York Agric. Exp. Stat. Techn. Bull. XLIV [1915], p. 3—14, Pl. I—V.)
- Godfrey, G. H.** Sclerotium Rolfsii on wheat. (Phytopathology VIII [1918], p. 64—66, 1 Fig.)
- Sclerotinia Ricini n. sp. parasitic on the castor bean. (Ricinus communis). (Ibidem IX [1919], p. 565—567, Pl. XL—XLI.)
- Goss, R. W. and Doolittle, S. P.** The effect of fungicide on the spore germination of Longyear's Alternaria. (Rep. Michigan Acad. Sci. XVII [1916], p. 183—187.)
- Graves, A. H.** Some diseases of trees in Greater New York. (Mycologia XI [1919], No. 3, p. 111—124, Pl. X.)
- Green, E. Ernest.** Additions to the wild Fauna and Flora of the Royal Botanic Gardens, Kew. XV. — Coccidae. (Kew Bull. [1917], p. 73—76.)
- Gregory, C. T.** Heterosporium leaf-spot of timothy. (Phytopathology IX [1919], p. 576—580, 2 Fig.)
- Griewank, H. et Laveau, M.** Sur un cas de mycétome à grains rouges. (Bull. Soc. Path. exot. T. XII [1919], p. 478—482.)
- Grimmwood, J. C.** Club Root of Brassica (Plasmodiophora brassicae). (Gard. Chron. LVI [1914], p. 118.)
- Grisdale, J. H.** The black or stem rust of wheat. (Canada Dept. Agric. Experim. Farms Div. Bot. II. Bull. XXXIII [1917], 15 pp., illustr.)

- Grose, L. R.** The alternate hosts of the white pine blister rust. (*Am. Forestry* XXII [1916], p. 469—471, illustr.)
- Guba, E. F. and Anderson, P. J.** Phyllosticta leaf-spot and damping off of snapdragons. (*Phytopathology* IX [1919], p. 315—325, 7 Fig.)
- Güssow, H. T.** Leaf roll in tomatoes? (*Phytopathology* VI [1916], p. 447.)
- The occurrence of *Colletotrichum cereale*, *Dothichiza populea* and *Leptosphaeria napi* in Canada. (*Phytopathology* VII [1917], p. 450.)
- Plant diseases in Canada. (*Science* 2. ser. XLVI [1917], p. 362.)
- Establishment of an imperial (British) Bureau of Mycology. (*Phytopathology* IX [1919], p. 265.)
- Gunn, D.** The false codling-moth. (*Argyroplöce leucotrata* Meyr.) (*Science Bull. Union of South Africa Departm. of Agric. Pretoria* No. 21 [1921], 28 pp., ill.)
- Hardenberg, B. B.** The Aloë Gall. (*Agricult Journ. Union of South Africa Pretoria* VIII [1914], p. 70—72, 1 Fig.)
- Harris, J. A.** The application of correlation formulae to the problem of varietal differences in disease resistance: data from the Vermont experiments with potatoes. (*Amer. Nat.* LI [1917], p. 238—244.)
- Harshberger, J. W.** A text-book of mycology and plant pathology. (Philadelphia 1917, 1—XIII und 1—779 pp., 270 Fig.)
- Harter, L. L.** Sweet-potato diseases. (*U. S. Dept. Agric. Farmers Bull.* 714 (1916), p. 1—26, Fig. 1—25.)
- Harter, L. L. and Jones, L. R.** Cabbage diseases. (*U. S. Dept. Agric. Farm. Bull.* no. 925 [1918], 30 pp., 13 Fig.)
- Harter, L. L. and Weimer, J. L.** Sweet potato rot and tomato wilt. (*Phytopathology* X [1920], p. 306—307.)
- Sweet potato diseases. (*U. S. Dept. Agric. Farm. Bull.* no. 1059 [1919], 24 pp., 15 Figs.)
- — Respiration of Sweet Potato storage-Rot Fungi when Grown on a nutrient Solution. (*Journ. Agric. Research Washington* XXI [1921], p. 211—226, 1 Fig.)
- Hartley, Carl and Hahn, G. G.** Notes on some diseases of aspen. (*Phytopathology* X [1920], p. 141—147, 3 Fig.)
- Hartley, C. and Pierce, R. G.** The control of damping — off of coniferous seedlings. (*U. S. Dept. Agric. Bull.* 453 [1917], 32 pp., 2 Pls.)
- Hartley, C., Pierce, R. G. and Hahn, G. G.** Moulding of snowmothered nursery stock. (*Phytopathology* IX [1919], p. 521—531.)
- Hase, Albrecht.** Die Schädlingsbekämpfung. (*Voss. Ztg. Nr.* 43, 2. Beilage [12. XI. 1920].)
- Über die Bekämpfung von tierischen Schädlingen mit giftigen Gasen. (*Mitteil. Deutsch. Dendrol. Ges.* XXXVI [1921], p. 457—459.)
- Haskell, R. J.** The spray method of applying concentrated formaldehyde solution in control of oat smut. (*Phytopathology* VII [1917], p. 381—383.)
- Fusarium wilt of potato in the Hudson River valley, New York. (*Phytopathology* IX [1919], p. 223—260, Pl. XII—XV.)
- Hauman-Merck, L.** Les parasites végétaux des plantes cultivées en Argentine et dans les régions limitrophes. (*Anales Mus. Nac. Hist. Nat. Buenos Aires* XXVI [1914] 1915, p. 163—225, 6 Fig.)
- Hayes, H. K., Parker, John H. and Kurtzweil, Carl.** Genetics of Rust Resistance in Crosses of Varieties of *Triticum vulgare* with Varieties of *T. durum* and *T. dicoccum*. (*Journ. Agric. Research Washington* XIX [1920], p. 523—542, Pl. XCVII—CII.)

- Headden, Wm. P.** Yellow-berry in Wheat its Cause and Prevention. (Bull. Agric. Experim. Stat. of the Colorado Agricult. Coll. Nr. 205 [1915], 38 pp. 1 farb. Pl.)
- Headlee, T. J., Cook, T., and Farley, A. J.** Spray Calendar for Apples and Quinces. (New Jersey Agric. Experim. Stat. Circular 116 (1920), 2 pp. 3 Figs.)
- Heald, F. D.** Brown rot of stone fruits. (Washington Agriculturalist VIII [1915], p. 1—6.)
- Some new facts concerning wheat smut. (Proceed. Washington State Grain Growers Assn. X [1916], p. 38—45, Fig. 1—2.)
- Preliminary note on leaf invasion by *Bacillus amylovorus*. (Bull. Washington Agric. Exp. Stat. 125 [1915], p. 1—7, Fig. 1—3.)
- Heald, F. D. and Woolman, H. M.** Bunt or stinking smut of wheat. (Ibidem Bull. 126 [1915], p. 1—24. 5 Figs.)
- Potato diseases. (Washington Agric. Exp. Stat. Popl. Bull. 106 [1917], p. 17—94, Fig. 1—26.)
- Hemmi, Takewo.** On the Die-back Disease of *Paulownia tomentosa* caused by a new Species of *Valsa*. (Tokyo Bot. Mag. XXX [1916], p. 304—315, 4 Fig.)
- Henderson, M. P.** The black-leg disease of cabbage caused by *Phoma lingam* (Tode) Desmaz. (Phytopathology VIII [1918], p. 379—431, 10 Fig.)
- Hesler, L. R.** Apple cankers and their control. (Cornell Agric. Experim. Stat. Circ. XXVIII [1915], p. 17—28, Fig. 1—16.)
- Black rot, leaf spot, and canker of pomaceous fruits. (Cornell Agric. Exp. Stat. Bull. 379 [1916], p. 51—148, Pl. 7—14, Fig. 18—37.)
- Hesler, Lex R. and Whetzel, Herbert Rice.** Manual of fruit diseases. (New York 1917, 12°. XX. + 462 pp., 126 Figs.)
- Higgins, B. B.** Plum wilt, its nature and causes. (Georgia Agric. Experim. Stat. Bull. CXVIII [1916], p. 1—29, Fig. 1—25.)
- Gum formation with special reference to cankers and decays of woody plants. (Ibidem Bull. CXXVII [1919], p. 23—51, Pl. I—VI, 2 Figs.)
- Hodgson, R. W.** Citrus blast — a new bacterial disease. (Calif. State Comm. Hort. Monthly Bull. VI [1917], p. 229—233, Fig. 58—59.)
- A sterigmatocystis smut of figs. (Phytopathology VIII [1918], p. 545—546.)
- Black smut of figs. (Month. Bull. State Comm. Hort. Calif. VII [1918], p. 188—189, 28 Figs.)
- Hoffer, G. N.** An aecidium on redclover, *Trifolium pratense* L. (Proceed. Indiana Acad. Sci. [1916] 1917, p. 325—326.)
- Hoffer, G. N. and Holbert, J. R.** Results of corn disease investigations. (Science n. ser. 2, XLVII [1918], p. 246—247.)
- — Selection of disease-free seed corn. (Purdue Agric. Experim. Stat. Bull. no. 224 [1918], 16 pp., 6 Fig.)
- Holway, E. W. D.** Infected grass seeds and subsequent rust development. (Phytopathology VIII [1918], p. 169.)
- Horne, W. T.** Oak-fungus disease, oak-root fungus disease, fungus root-rot, toadstool root-rot or mushroom root-rot. (Mo. Bull. State Comm. Hort. Calif. VIII [1919], p. 64—68, Fig. 36—39.)
- Houser, J. S.** Recent tests of materials to control San Jose scale. (Monthly Bull. Ohio Agric. Experim. Stat. V [1920], p. 49—51.)
- Howard, A.** Influence des facteurs pédologiques sur la résistance aux maladies. (Ann. applied Biol. VII (1921), p. 373—389, 5 Fig.)
- Howitt, ñ. E.** *Phytophthora infestans*, causing damping-off of tomatoes. (Phytopathology VII [1917], p. 319.)

- Howitt, J. E. and Caesar, L.** The more important fruit tree diseases of Ontario. (Ontario Dept. Agric. Bull. 257 [1917], 44 pp.)
- Hubert, E. E.** Fungi as a contributory causes of windfall in the northwest. (Journ. Forestry XVI [1918], p. 696—714.)
- Huff, M. L. and House, G. O.** Copper sulphate treatment of St. Paul, Minnesota, water supply. (Journ. Amer. Water Works Assoc. III [1916], p. 581—621, Pl. I—III, 5 Figs.)
- Humbert, J. G.** Tomato diseases in Ohio. (Ohio Agric. Exp. Stat. Bull. no. 321 [1918], p. 159—196, 2 Fig.)
- Humphrey, H. B. and Potter, A. A.** Cereal smuts and the disinfection of seed grain. (U. S. Dept. Agric. Farm. Bull. no. 939 [1918], 28 pp., 16 Figs.)
- Hungerford, C. W.** Rust in seed wheat and its relation to seedling infection. (Journ. Agric. Research Washington XIX [1920], p. 257—277, Pl. XXXVIII—XLVIII.)
- Hurd, Annie May.** Injury to seed wheat resulting from drying after disinfection with Formaldehyde. (Journ. Agricult. Research XX [1920], p. 209—244, Pl. XXXVI—XLI.)
- Seed-Coat Injury and Viability of Seeds of Wheat and Barley as Factors in Susceptibility to Molds and Fungicides. (Ibidem Vol. XXI (1921), p. 99—122, Pl. XIII—XXIII.)
- Hyslop, J. A.** *Triphleps insidiosus* as the probable transmitter of corn ear rot (*Diplodia* sp. *Fusarium*). (Journ. Econ. Entomol. IX [1916], p. 435—437.)
- Jackson, H. S.** Two new forest tree rusts from the northwest. (Phytopathology VII [1917], p. 352—355.)
- Apple diseases in Indiana, with spray schedule. (Indiana Agric. Experim. Stat. Circ. VII [1917], 23 pp., 14 Fig.)
- Jackson, H. S. and Osner, G. A.** Potato diseases in Indiana. (Indiana Agric. Experim. Stat. Circ. LXXI [1917], 16 pp., 5 Fig.)
- Jagger, Ivan C.** *Sclerotinia minor*, n. sp., the cause of a decay of lettuce, celery and other crops. (Journ. Agric. Research Washington XX [1920], p. 331—334, Pl. 59.)
- Control of vegetable diseases. (Cornell Ext. Bull. XIX [1917], p. 2915—2936, Fig. 91—113.)
- Bacterial Leafspot Disease of Celery. (Journ. Agric. Research Washington XXI [1921], p. 185—188, Plate XLVI—XLVII.)
- A transmissible mosaic disease of lettuce. (Journ. Agric. Research Washington XX [1921], p. 737—739, Pl. LXXXVII.)
- Jagger, I. C. and Stewart, V. B.** Some *Verticillium* diseases. (Phytopathology VIII [1918], p. 15—19.)
- Jehle, R. A.** Susceptibility of now citrus plants to *Bacterium Citri*. (Phytopathology VII [1917], p. 339—344, 3 Fig.)
- Susceptibility of *Zanthoxylum clavaherules* to *Bacterium citri*. (Phytopathology VIII [1918], p. 34—46, 1 Fig.)
- Jenkins, E. W.** Cotton and some of its diseases and insects. (Univ. Florida Agric. Experim. Bull. XV [1919], 19 pp., 7 Fig.)
- Johnson, A. G. and Dickson, James G.** Stem Rust of Grains and the Barberry in Wisconsin (Agricultural Experiment Station of the University of Wisconsin Bulletin Nr. 304 [1919], 16 pp. 7 Figs.)
- Johnston, J. R.** La enfermedad del platano en Cuba. (Cuba Estac. Exp. Agron. Circ. XLVII [1915] p. 1—13. Pl. I—VII.)
- Notas sobre micología y pathología vegetal en Cuba. (Mem. Soc. Cubana Hist. Nat. II [1917], p. 225—228.)

- Johnston, J. R.** History and cause of the rind disease of sugar cane. (Journ. Board Comm. Agric. Porto Rico I [1917], p. 17—45, Pl. I.)
- Johnston, J. R. and Stevenson, J. A.** Sugar-cane fungi and diseases of Porto Rico. (Journ. Dept. Agric. Porto Rico I [1917], p. 177—264, Pl. XIX—XXXI.)
- Jones, D. H.** Some bacterial diseases of vegetables found in Ontario. (Ontario Dept. Agric. Bull. CCXL [1916], 24 pp. 10 Pl.)
- Bacteria — friends and foes. (Ibidem Bull. no. CCLV [1918], 99 pp.)
- Jones, F. R.** Pleosphaerulina on alfalfa. (Phytopathology VI [1916], p. 299—300.)
- The leaf-spot diseases of alfalfa and redclover caused by the fungi *Pseudopeziza medicaginis* and *P. trifolii* respectively. (U. S. Dept. Agric. Bull. no. 759 [1919], p. 1—38, Pl. I—III, 4 Figs.)
- Jones, Fred. Ruel and Drechsler, Charles.** Crownwart of Alfalfa caused by *Urophlyctis alfalfae*. (Journ. Agric. Research Washington XX [1920], p. 295—323, Pl. XLVII—LVI.)
- Jones, L. R.** Soil temperature as a factor in phytopathology. (Plant World XX [1917], p. 229—237.)
- Our Journal Phytopathology. (Phytopathology IX [1919], p. 178—179.)
- Disease resistance in cabbage. (Proceed. Nat. Acad. Sci. IV [1918], p. 42—46, 2 Fig.)
- Jones, L. R. and Bartholomew, E. T.** Apple rust and its control in Wisconsin. (Wisconsin Agric. Experim. Stat. Research Bull. 275 [1915], p. 3—30, 14 Figs.)
- Jones, L. R. and Gilman, J. C.** The control of cabbage yellows through disease resistance. (Wisconsin Agric. Experim. Stat. Research Bull. XXXVIII [1915], 70 pp., 23 Figs.)
- Jones, L. R. and Mc Kinney, H. H.** The influence of soil temperature on potato scab. (Phytopathology IX [1919], p. 301—302.)
- Jones, L. R., Walker, J. C. and Tisdale, W. B.** Fusarium Resistant Cabbage. (Research Bulletin Agricult. Experim. Stat. Univ. Wisconsin Nr. 48 [Madison 1920], 34 pp., 10 Figs.)
- Jones, L. R., Miller, M. and Bailey, E.** Frost Necrosis of Potato Tubers. (Agricultural Experiment Station of the University of Wisconsin—Research Bulletin Nr. 46, 46 pp., 12 Figs.)
- Kauffman, C. H. and Mains, E. B.** An epidemic of *Cronartium Comptoniae* at the Roscommon state nurseries. (Ann. Rep. Michigan Acad. Sci. XVII [1915], p. 188—189.)
- Kawakami, Koichiro, and Yoshida, Suehiko.** Bacterial Gall on *Milletia* plant. (*Bacillus Milletiae* n. sp.) (Tokyo Bot. Mag. XXXIV [1920], p. 110 ff.)
- Keitt, G. W.** Peach scab and its control. (U. S. Dept. Agric. Bull. 395 [1917], 66 pp., 6 Pls., 6 Figs.)
- Control of Cherry Leaf Spot in Wisconsin. (Agric. Experim. Station Univ. of Wisconsin — Madison Bulletin Nr. 286 [1918], 11 pp., 7 Figs.)
- Kelly, Albert.** The false Codling Moth [*Enarmonia batrachopa*. Meyrick with particular reference to its attack upon Acorns. (Agric. Journ. Union of South Africa Pretoria VIII [1914], p. 72—75, Fig. A—B.)
- Kern, F. D.** North American rusts on *Cyperus* and *Eleocharis*. (Mycologia XI [1919], Nr. 3, p. 134—147.)
- Keuchenius, P. E.** Onderzoekingen over bruine bastziekte. (Archief voor de Rubbercultuur in Ned. Indie IV [1920], p. 1.)
- Kezer, A. and Sackett, W. G.** Beans in Colorado and their diseases. (Colorado Agric. Exp. Stat. Bull. no. 234 [1918], 32 pp., 6 Figs.)

- Kirchner, V. v.** Die durch Pilze verursachten Krankheiten der Heil- und Gewürzpflanzen und ihre Verhütung. (Heil- u. Gewürzpfl. III [1920].)
- Koerner, W. F.** Auf welche Krankheitsformen ist beim „Durchsehen“ und „Ausheuen“ der zur Saatgewinnung bestimmten Kartoffelfelder besonders zu achten. (Illustr. Landw. Zeitg. XXXIX [1919], p. 323—324, Fig. 252—259.)
- Kopeloff, N. and Kopeloff, L.** The deterioration of cane sugar by fungi. (Louisiana Agric. Experim. Stat. Bull. no. 166 [1917], p. 1—72, 1 Fig.)
- Korstian, Clarence F., Hartley, Carl, Watts, Lyle, F. and Hahn, Glenn G.** A Chlorosis of Conifers corrected by Spraying with Ferrous Sulphate. (Journ. Agric. Research, Washington XXI [1921], p. 153—171.)
- Koser, Stewart A.** A Bacteriological Study of Canned Ripe Olives. (Journ. Agric. Research XX [1920], p. 375—379.)
- Krall, J. A.** The formalin treatment for controlling oat smut. (Proceed. Jowa Acad. Sci. XXIII [1916], p. 593—620.)
- Krout, W. S.** Common diseases of Celery. (New Jersey Agric. Experim. Stat. Circular 112 [1919], 12 pp., 6 Figs.)
— Treatment of Celery Seed for the Control of Septoria Blight. (Journ. Agric. Research Washington XXI [1921], p. 369—372.)
- Kunkel, L. O.** Further data on the Orange-Rusts of Rubus. (Journ. Agric. Research, Washington XIX [1920], p. 501—512, Pl. D and XCII—XCIV.)
- Lange.** Die Fleckenkrankheit der Bohnen. (Amtsbl. d. Landw. Kammer f. d. Regierungsbez. Wiesbaden, Jahrg. XCIX [1917], p. 154—155.)
- Laubert, R.** Schmarotzerpilze und Pflanzenkrankheiten aus Polen und Masuren. (Centralbl. f. Bakteriol. usw. II. Abt. LII [1920], p. 236—244.)
- Lebenbauer, P. A.** Carnation stem rot. (Gardening XXVIII [1920], p. 152—155.)
- Lee, H. A.** Further data on the citrus canker affection of the citrus species and varieties at Lamao. (Philipp. Agric. Rev. I [1918], p. 200—206, Pl. IX—XV.)
- Lee, H. A. and Yates, H. S.** Pink disease of Citrus. (Philipp. Journ. Sci. Bot. XIV [1919], p. 657—671, Pl. I—VII, 2 Fig.)
- Legislazione fitopatologica.** (Boll. mens. inform. e notizie Roma II [1921], p. 37—42.)
- Levin, E.** Control of lettuce rot. (Phytopathology VII [1917], p. 392—393.)
— The leaf-spot disease of tomato. (Michig. Agric. Exp. Stat. Tech. Bull. XXV [1916], 51 pp., 9 Pl., 2 Fig.)
- Levine, M.** Studies on plant cancers. I. The mechanism of the formation of the leafy crown gall. (Bull. Torrey Club XLVI [1919], p. 447—452, Pl. XVII—XVIII.)
- Link, G. K. K. and Gardner, M. W.** Market Pathology and market Diseases of Vegetables. (Phytopathology IX [1919], p. 497—520.)
- Lint, Henry, Clay.** Seed and soil treatment for the control of Potato scab. (New Jersey Agric. Experim. Stat. Circular 95 [1918], 4 pp., 1 Fig.)
- Long, W. H.** Investigations of the rotting of slash in Arkansas. (U. S. Dept. Agric. Bull. 496 [1917], p. 1—14.)
- Lüstner, G.** Ergebnisse der Prüfung neuer Mittel gegen Peronospora, Oidium und Heu- und Sauerwurm im Jahre 1920. (Wein u. Rebe II [1921], p. 577—582.)
- Luigioni, Paolo.** Coleotteri esotici utili e dannosi alle piante importati in Italia e rinvenuti nel Lazio. (Boll. mens. inform. e notizie II [1921], p. 18—22.)
- Lutman, B. F. and Cunningham, G. C.** Potato scab. (Vermont Agric. Experim. Stat. Bull. 184 [1914], p. 3—64, Pl. I—XII, Fig. 1—7.)
— Apple diseases and their control. (Vermont Comm. Agric. Rept. IX [1918], p. 67—70.)
- Lyman, G. R.** The relation of phytopathologists to plant disease survey work. (Phytopathology VIII [1918], p. 219—228.)

- Mc Clintock, J. A.** Is cucumber mosaic carried by the seed? (Science 2. ser. XLIV [1916], p. 786—787.)
- Sclerotinia libertiana on snap beans. (Phytopathology VI [1916], p. 436—441, 2 Figs.)
- Sweet potato diseases. (Virginia Truck Experim. Stat. Bull. no. XXII [1917], p. 455—486, Fig. 108—121.)
- Peanut mosaic. (Science 2. Ser. XLV [1917], p. 47—48.)
- Further evidence relative to the varietal resistance of peanuts to Sclerotinia Rolfsii. (Science 2. ser. XLVII [1918], p. 72—73.)
- Sclerotinia blight. A serious disease of snap beans caused by Sclerotinia libertiana Fekl. (Virginia Truck Experim. Stat. Bull. XX [1916], p. 419—428, Fig. 100—103.)
- Mc Cubbin, W. A.** Fruit tree diseases of southern Ontario. (Canada Dept. Agric. Experim. Farms Bull. XXIV [1915], 77 pp., 70 Fig.)
- Does Cronartium ribicola winter on the currant? (Phytopathology VII [1917], p. 17—31, 1 Fig.)
- The white pine blister rust; does the fungus winter on the currant? (Science 2 ser. XLV [1917], p. 87.)
- Peach canker. (Canadian Dept. Agric. Dom. Exp. Farms Bull. no. 37 [1918], 20 pp., 6 Pls., 2 Fig.)
- Dispersal distance of urediniospores of Cronartium ribicola as indicated by their rate of fall in still air. (Phytopathology VIII [1918], p. 35—36, 1 Fig.)
- Public school survey for currant rust. (Phytopathology VIII [1918], p. 294—297.)
- Common strawberry diseases. (Bull. Dom. Can. Dept. Agric. XCII, p. 35—39.)
- Mc Cubbin, W. A. and Posey, G. G.** Development of blister rust aecia on white pines after they had been cut down. (Phytopathology VII [1917], p. 391—392.)
- The brown rot of stone fruits. (Pa. Dept. Agric. Bull. no. 340 [1920], p. 3—8, Pl. I, Fig. 1.)
- Mc Culloch, L.** A morphological and cultural note on the organism causing Stewart's disease of sweet corn. (Phytopathology VIII [1918], p. 440—441, Pl. I.)
- Mc Innes, F. J.** The occurrence of Alternaria in a characteristic apple spot, and an apple rot caused by Gliocladium viride. (Transact. Illinois Acad. Sci. X [1917], p. 218—229, Pl. I—IV.)
- Mc Kee, R.** Alfalfa crown wart in the western United States. (Journ. Amer. Soc. Agron. VIII [1916], p. 244—246.)
- Mackie, W. W.** Head smut in sorghum and maize. (Phytopathology X [1920], p. 307—308.)
- Mackie, W. W. et Briggs, Fred. N.** Traitements en poudre contre la „carie“ du blé (Tilletia Tritici). (Science n. s. LII [1920], p. 540—541.)
- Mc Kinney, H. H.** Nomenclature of the potato scab organism. (Phytopathology IX [1919], p. 327—329.)
- Mac Millan, H. G.** An epidemic of corn smut following hail. (Phytopathology VIII [1918], p. 584—585.)
- Mc Murran, S. M.** Preventing wood rot in pecan trees. (U. S. Dept. Agric. Farm. Bull. no. 995 [1918], 8 pp., 10 Figs.)
- Mac Rostie, G. P.** Études génétiques du caractère „resistance à l'antracnose, à la mosaïque et à la pourriture des racines“ chez Phaseolus vulgaris, à l'École supérieure d'agriculture de Cornell, New York. (Journal of the American Society of Agronomy XIII [1921], p. 15—33.)

- Malloch, J. R.** A new species of *Agromyza* destructive to beans in the Philippines (Proceed. Entomol. Soc. Washington XVIII [1916], p. 93.)
- Manganaro, Ana.** Apuntes cecidiologicos. (Anales del Museo Nacional de Historia Natural de Buenos Aires XXVI [1915], p. 145—150.)
- Manns, T. F.** Some new bacterial diseases of legumes and the relationship of the organisms causing the same. (Delaware Agric. Experim. Stat. Bull. 108 [1915], 44 pp., 21 Pls.)
- Marsh, C. D.** The loco-weed disease. (U. S. Dept. Agric. Farm. Bull. no. 1054 [1919], 19 pp., 11 Figs.)
- Martin, G. W.** Brown blotch of the Kieffer pear. (Phytopathology VIII [1918], p. 234—238, 9 Figs.)
 — The common diseases of the pear. (New Jersey Agric. Exp. Stat. LII [1915], 12 pp., 6 Fig.)
- Martin, W. H.** Common diseases of cucumbers and melons. (New Jersey Agric. Experim. Stat. Circ. 68 [1917], 11 pp., 5 Figs.)
 — *Sclerotium bataticola*. The cause of a fruit-rot of peppers. (Phytopathology VII [1917], p. 308—312, 12 Figs.)
 — Dissemination of *Septoria lycopersici* Speg. by insects and pickers. (Phytopathology VIII [1918], p. 365—372.)
- Massey, L. M.** The hard rot disease of *Gladiolus*. (Cornell Agric. Exp. Stat. Bull. 380 [1916], p. 153—181, Pl. XV—XVI, Fig. 38—44.)
 — The crown canker disease of rose. (Phytopathology VII [1917], p. 408—417, 3 Figs.)
 — Experiments for the control of blackpost and powdery mildew of roses. (Phytopathology VIII [1918], p. 20—23.)
 — The diseases of roses. (Transact. Mass. Horst. Soc. 1918, p. 81—101, Pl. I—II.)
 — Rose diseases. (Amer. Rose Ann. 1917, p. 92—101, Fig. 6—7.)
 — More about rose diseases. (Amer. Rose Ann. 1918, p. 63—71, Pl. IV, 1 Fig.)
 — More about crown-canker. (Amer. Rose Annual 1919, p. 74—78.)
- Matz, J.** Report of the laboratory assistant in plant pathology. (Florida Agric. Experim. Stat. Report [1916] 1917, 99 R — 112 R., Fig. 17—22.)
 — Report of laboratory assistant in plant pathology. (Ibidem Rep. [1917] 1918, 87 R.—94 R., Fig. 9—15.)
 — Report of the division of plant pathology and botany. (Ann. Rep. Ins. Experim. Stat. Porto Rico XXXV [1919], p. 36.)
 — A *Rhizoctonia* of the fig. (Phytopathology VII [1917], p. 110—117.)
 — Diseases and insect pests of the pecan. (Florida Agric. Experim. Stat. Bull. no. 147 [1918], p. 135—162, Fig. 45—73.)
 — Some diseases of the fig. (Ibidem Bull. no. 149 [1918], 10 pp. 5 Fig.)
 — Citrus spots and blemishes. (Porto Rico Dept. Agric. Experim. Stat. Circ. XVI [1919], p. 1—8.)
 — Infection and nature of the yellow stripe disease of cane (Mosaic, Mottling, etc.). (Journ. Dept. Agric. Porto Rico Vol. III, Nr. 4 [1919] 1920.)
- Meinecke, E. P.** Forest pathology in forest regulation. (U. S. Dept. Agric. Bull. Nr. 275 [1916], 63 pp.)
 — Facultative heteroecism in *Peridermium cerebrum* and *P. Harknessii*. (Phytopathology X [1920], p. 279—297, 2 Fig.)
- Meinecke, E. P.** The white pine blister rust and the chestnut bark disease. (Monthly Bull. State Comm. Hort. Calif. VI [1917], p. 268—279, Fig. 76—84.)
- Melchers, L. E.** A new alfalfa leaf-spot in America. (Science 2. Ser. XLII [1915], p. 536—537.)

- Melchers, L. E.** The grouping and terminology of plant diseases. (Phytopathology V [1915], p. 297—302.)
 — Plant diseases affecting alfalfa. (Rep. Kansas Board Agric. XXXV [1916], p. 339—353, Fig. 282—300.)
- Melchers, L. E. and Parker, J. H.** Three winter-wheat varieties resistant to leaf-rust in Kansas. (Phytopathology X [1920], p. 164—171, Fig. 1—3.)
- Melhus, I. E. and Durrell, L. W.** The barberry bush and black stem rust of small grains. (Jowa Agric. Experim. Stat. Circ. XXXV [1917], 4 pp., 6 Fig.)
- Melhus, I. E. and Vogel, I. H.** Cabbage diseases. (Yowa Yearbook Agric. XVIII [1918], p. 435—438, 3 Fig.)
- Merrill, J. H. and Melchers, L. E.** Insects and plant diseases attacking garden crops. (Kansas Agric. Experim. Stat. Circ. LXV [1918], p. 1—12.)
- Metcalf, H.** The problem of the imported plant disease as illustrated by the white pine blister rust. (Mem. Brooklyn Bot. Gard. I [1918], p. 327—331, Pl. VI—VII.)
 — Summary of the white-pine blister rust situation. (Journ. Forestry XVI [1918], p. 85—89.)
- Miles, L. E.** Some diseases of economic plants in Porto Rico. (Phytopathology VII [1917], p. 345—351, 3 Fig.)
- Miller, C. C.** Bud curl of the lemon tree. (Month. Bull. State Comm. Hortic. Calif. VII [1918], p. 515—519, Fig. 70—74.)
- Ministerio do Agricultura, Industria e Commercio do Instituto Biologics de Defesa Agricola** aprovado pelo Decreto no. 14356, de 15 de setembro de 1920, 20 pp. Rio de Janeiro, 1920.
- Mix, A. J.** Sun-scald of fruit trees, a type of winter injury. (Cornell Agric. Experim. Stat. Bull. 382 [1916], p. 237—284, Pl. XVIII—XIX, Fig. 60—61.)
- Moesz, G.** Pflanzengallen aus Polen. (Ungar. Bot. Blätter XVIII [1919], p. 26—39.)
- Montemartini, Luigi.** Intorno ad una nuova malattia dell'Olivio. (Bacterium Olivae n. sp.) (Atti Ist. Bot. Univ. Pavia II, Ser. XIV [1914], p. 151—158.)
- Müller-Thurgau, H. und Osterwalder, H.** Versuche zur Bekämpfung der Kohlhernie. (Landw. Jahrb. d. Schweiz 1919, 22 pp., 7 Abb. i. Text.)
- Muncie, J. H.** A girdling of bean stems caused by Bact. phaseoli. (Science 2. ser. XLVI [1917], p. 88—89.)
 — Experiments on the control of bean anthracnose and bean blight. (New York Agric. Experim. Stat. Techn. Bull. XXXVIII [1917], p. 1—50, Pl. 1—4.)
- Munger, T. T.** Parch blight on Douglas fir in the Pacific northwest. (Plant World XIX [1916], p. 46—47.)
- Munn, M. T.** Neck-rot disease of onions. (New York Agric. Experim. Stat. Bull. no. 437 [1917], p. 365—455, 11 Pls.)
 — Pathogenicity of Bacillus amylovorus (Burr.) Trev. for blossoms of the strawberry (Fragaria sp.). (Phytopathology VIII [1918], p. 33.)
- Murphy, P. A.** The black leg disease of potatoes caused by Bacillus Solanisaprus Harrison. (Canada Dept. Agric. Experim. Farms Circ. 11 [1916], 8 pp., Fig. A—D.)
 — Late blight and rot of potatoes. (Ibidem Circ. X [1916], 13 pp., Fig. A—B.)
- Murphy, P. A. and Wortley, E. J.** Determination of the factors inducing leaf-roll of potatoes particularly in northern climates. (First progress report.) (Phytopathology VIII [1918], p. 150—154, 1 Fig.)
- Murrill, W. A.** Exploration of Apple Orchard Mountain, Virginia. (Journ. New York Bot. Gard. XVII [1916], p. 218—221.)
 — New combinations. (Mycologia IX [1917], p. 40.)
 — A disease of the hemlock tree. (Journ. New Ycrk Bot. Gard. XVIII [1917], p. 208.)

- Nalepa, A.** Die Phytoptocidien von Tilia und ihre Erzeuger. (Verhandl. Zool.-Bot. Ges. Wien LXX [1920], p. 49—64.)
- Die Phytoptocidien von Tilia und ihre Erzeuger. (Verhandl. Zoolog.-Bot. Ges. Wien LXX [1920], p. 65—68 [Schluß].)
- Neue und wenig bekannte Eriophyiden. (Ibidem p. 81—98.)
- Neal, D. C.** Phony peaches; a disease occurring in middle Georgia. (Phytopathology X [1920], p. 106—109, Pl. IX, Fig. 1.)
- Newell, W.** Citrus canker. (Monthly Bull. State Comm. Hort. Calif. VI [1917], p. 263—268, 3 Pls., Fig. 74—75.)
- Nicholson, C. G.** Some vegetable parasites. (Sci. Am. II [1920], p. 87—97.)
- Nilsson-Ehle, H.** Über Resistenz gegen Heterodera Schachtli bei gewissen Gerstensorten, ihre Vererbungsweise und ihre Bedeutung für die Praxis. (Hereditas, Genetisk Arkiv Bd. I [1920], p. 1 ff.)
- Nishimura, M.** A carrier of the mosaic disease. (Bull. Torrey Club XLV [1918], p. 219—233, Pl. VII.)
- Norton, J. B. S.** Internal action of chemicals on resistance of tomatoes to leaf diseases. (Maryland Agric. Exp. Stat. Bull. 192 [1916], p. 17—30, 1 Fig.)
- Peach yellows and peach rosette. (Monthly Bull. State Comm. Hort. Calif. VI [1917], p. 282—286, Fig. 87—89.)
- Nowell, Wm.** Internal Disease of Cotton Bolls in the West Indies II. (West-Indian Bulletin XVII [Barbados 1918], p. 1—23.)
- Report of an investigation of froghopper pest and diseases of sugarcane in Trinidad. (Dept. Agric. Bull. Trinidad and Tobago XVIII [1919], p. 57—69.)
- A root disease of cacao in Trinidad. Rosellinia pepo. (Ibidem p. 178—199, Fig. 1—5.)
- O'Gara, P. J.** A Podosporiella disease of germinating wheat. (Phytopathology V [1915], p. 323—326, Pl. XV—XVI.)
- A new disease of germinating wheat. (Science 2. Ser. XLII [1915], p. 313—314.)
- Occurrence of the bacterial of Sudan grass in the Salt Lake Valley, Utah. (Ibidem p. 314—315.)
- Occurrence of Thielavia basicola as a root parasite of watermelons in the Salt Lake Valley, Utah. (Science 2. Ser. XVII [1915], p. 314.)
- A bacterial disease of western wheat-grass. First account of the occurrence of a new type of bacterial disease in America. (Ibidem p. 616—617.)
- A bacterial disease of western wheat grass, Agropyron Smithii. Occurrence of a new type of bacterial disease in America. (Phytopathology VI [1916], p. 341—350, Pl. 9—13.)
- The white-spot disease of alfalfa. (Science 2. Ser. XLVIII [1918], p. 299—301.)
- A fungus of uncertain systematic position occurring on wheat and rye. (Science 2. Ser. XLIII [1916], p. 111—112.)
- A Phoma disease of western wheat-grass. (Ibidem p. 110—111.)
- A new leaf-spot disease of Polygonum persicaria. (Mycologia IX [1917], p. 248, Pl. X.)
- Olive, E. W.** A trip to Texas to investigate cotton rust. (Brooklyn Bot. Gard. Rec. VI [1917], p. 154—158.)
- Potato diseases. (Brooklyn Bot. Gard. Leaflets VI [1918], 4 pp.)
- Opitz,** Schutz der Erbsen- und Bohnenfelder vor pilzlichen Krankheiten. (Zeitschr. d. Landwirtschaftsk. f. d. Prov. Schlesien XXIII [1919], p. 232.)
- Orton, C. R.** The diseases of the potato. (Pennsylv. Agric. Experim. Stat. Bull. 140 [1916], p. 4—37, 23 Figs.)

- Orton, C. R.** *Phytophthora infestans* on tomatoes in Australia. (Phytopathology VI [1916], p. 447.)
- The Long Island Potato disease conference. (Phytopathology IX [1919], p. 536—537.)
- Diseases of the apple, pear and quince. (Proceed. Pennsylvania State Hort. Assoc. 1916, p. 45—52, Fig. 1—7.)
- Diseases of the brambles and methods of controlling them. (Ibidem p. 66—71, Fig. 1—7.)
- Orton, C. R. and Adams, J. F.** Collarblight and related forms of fire-blight. (Pennsylvania Agr. Exp. Stat. Bull. 136 [1915], p. 1—23, Fig. 1—13.)
- Orton, C. R. and Mc Kinney, W. H.** Notes on some tomato diseases. (Ann. Rep. Pennsylvania Agric. Experim. Stat. 1915—1916 [1917], p. 1—9.)
- — Winter blight of the tomato. (Ann. Rep. Pennsylvania State College [1914—15] 1916, p. 235—246, Pl. VI.)
- Watermelon diseases. (U. S. Dept. Agric. Farmers Bull. no. 821 [1917], 18 pp., 11 Fig.)
- Orton, C. R.** Notes on some polemoniaceous rusts. (Mycologia XI [1919], Nr. 4, p. 168—180.)
- Osmun, A. V.** Common potato diseases and their control. (Ann. Rep. Massachusetts State Board Agric. LXV [1918], p. 125—133, Fig. 1—8.)
- Osmun, A. V. and Anderson, P. J.** Ring-spot of cauliflower. (Phytopathology V [1915], p. 260—265, Fig. 1—4.)
- Osner, G. A.** Additions to the list of plant diseases of economic importance in Indiana. (Proceed. Indiana Acad. Sci. [1916] 1917, p. 327—332.)
- Leaf smut of timothy. (Cornell Agric. Experim. Stat. Bull. 381 [1916], p. 187—230, Pl. XVII, Fig. 45—58.)
- Overholts, L. O.** An undescribed timber decay of pitch pine. (Mycologia IX [1917], p. 261—270, Pl. XII—XIII.)
- Fammel, L. H.** The extermination of the common barberry to prevent crop leakage due to stem rust. (Jowa Conservation II [1918], p. 4—8.)
- Recent literature on fungous diseases of plants. (Transact. Jowa Hort. Soc. LIII [1918], p. 185—225.)
- Fammel, L. H., King, C. M. and Seal, J. L.** Studies on a *Fusarium* disease of corn and sorghum (Preliminary). (Jowa Agric. Experim. Stat. Research Bull. XXXIII [1916], p. 115—136, Fig. 2—15.)
- Parisi, R.** Parasites végétaux et animaux de quelques plantes médicinales et à essences, observés en Italie. (Rivista di Patologia vegetale XI [1921], p. 1—16.)
- Parker, J. H.** Greenhouse experiments on the rust resistance of oat varieties. (U. S. Dept. Agric. Bull. no. 629, 16 pp., 3 Pls., 2 Figs.)
- Patterson, F. W. et Charles, V. K.** The occurrence of bamboo smut in America. (Phytopathology VI [1916], p. 351—356, 1 Fig.)
- Paul, B. H.** The pine blister rust. (New York Pub. Cons. Comm. Bull. XV [1917], p. 1—18, illustr.)
- Pettler, George L.** Influence of Temperature and Humidity on the Growth of *Pseudomonas Citri* and its Host Plants and on Infection and Development of the Disease. (Journ. Agric. Research Washington XX [1920], p. 447—506.)
- Snapdragon rust. (Bull. Univ. Illin. Agric. Experim. Stat. no. 221 [1919], p. 535—548, 5 Figs.)
- Carnation stem rot and its control. (Illinois Agric. Experim. Stat. Bull. no. 223 [1919], p. 579—607, 5 Figs.)

- Perotti, R.** Su la presenza di una specie batterica nelle radici della *Diplotaxis erucoides* DC. (Rendic. R. Accad. dei Lincei Cl. sci. fis. mat. e nat. XXVIII ser. 5, 1° sem. fasc. 9 [1919], p. 331—335.)
- Petch, T.** Citrus mildew: a correction. (Phytopathology IX [1919], p. 266.)
- Peyronel, Beniamino.** Svernamento di *Marsonia Juglandis* sui Rami e Polloni del Noce. (Le Staz. Sperim. Agrar. Ital. LIII [1920], p. 168—171.)
- Alcuni casi di rapporti micorizici tra boletinu ed essenze arboree. (Le Staz. Sperim. Agrar. ital. LIII [1920], p. 24—31.)
- Il marciume amaro o marciume del cuore delle mele e delle pere. (Boll. mens. inform. e notizie Roma II [1921], p. 23—27, 3 Fig.)
- Una nuova malattia del Lupino prodotta da *Chalaropsis thielavioides* Peyr. nov. gen. et nova sp. (Le Staz. sperim. Agrar. ital. XLIX [1916], p. 583—596.)
- Piemeisel, F. J.** Factors affecting the parasitism of *Ustilago Zeae*. (Phytopathology VII [1917], p. 294—307.)
- Pierce, R. G.** Albany conference on white pine blister rust. (Phytopathology VII [1917], p. 54—55.)
- Notes on Peridermiums from Ohio. Need of pathological viewpoint in nursery inspection. (Phytopathology VIII [1918], p. 292—294.)
- Pipal, F. J.** Oat smut in Indiana. (Proceed. Indiana Acad. Sci. 1914, p. 191—196.)
- The barberry and its relation to stem rust of wheat in Indiana. (Ibidem [1918], 1919 p. 63—70, 2 Fig.)
- White top and its control. (Purdue Univ. Agric. Experim. Stat. Circ. LXXXV [1918], p. 1—12, Fig. 1—8.)
- Phillips, W. J. and Poos, F. W.** Life-History Studies of Three Jointworm Parasites. (Journ. Agric. Research Washington XXI [1921], p. 405—426, Pl. LXXIV—LXXIX Fig. 1—16.)
- Poeteren, N. van.** Verslag over de werkzaamheden van den Phytopathologischen Dienst in het jaar 1919. (Phytopathol. Dienst te Wageningen Nr. 12 [1920], 48 pp.)
- Pollacci, Gino.** Il parassita della rabbia e la *Plasmodiophora Brassicae* Wor. Ricerche sui loro rapporti di affinità morfologica e fisiologica. Nota preliminare. (Atti Ist. Bot. Univ. Pavia. II. Ser. XIV [1914], p. 403—407.)
- Rassegna Crittogamica per gli anni 1918—1919, con notizie sulle malattie del pomodoro dovute a parassiti vegetali. (Atti Ist. Bot. Univ. Pavia XVII [1920], p. 277—284.)
- Rassegna Crittogamica per l'anno 1920. (Ibidem p. 285—288.)
- Potter, A. A.** The control of experimental conditions in phytopathological research. (Phytopathology VI [1916], p. 81—88.)
- The effect of disinfection on the germination of cereal seed. (Ibidem VIII [1918], p. 248—249.)
- Powell, O.** Insect enemies and diseases of the tomato. (U. S. Dept. Agric. Circ. XL [1919], p. 1—18, Fig. 1—23.)
- Pritchard, F. S. and Clark, W. B.** Effect of copper soap and of Bordeaux soap spray mixtures on control of tomato leaf spot. (Phytopathology IX [1919], p. 554—564, 7 Fig.)
- Pritchard, Fred. J. and Porte, W. S.** Relation of Horse Nettle (*Solanum carolinense*) to Leafspot of Tomato (*Septoria lycopersici*). (Journ. Agric. Research, Washington XXI [1921], p. 501—506, Pl. XCV—XCIX.)
- Putterill, V. A.** Flag Smut of Wheat. (Journ. Dept. of Agric. Union of South Africa Vol. I [1920], p. 252—257, 5 Fig.)

- Quanjer, H. M.** The mosaic disease of the Solanaceae, its relation to the phloem-necrosis, and its effect upon potato culture. (Phytopathology X [1920], p. 35—47, Fig. 1—14.)
- Ramsey, G. B.** Influence of moisture and temperature upon infection of *Spongospora subterranea*. (Phytopathology VIII [1918], p. 29—31.)
— Studies on the viability of the potato blackleg organism. (Phytopathology IX [1919], p. 285—288.)
- Rand, Frederick V. and Cash, Lillian C.** Stewarts Disease of Corn. (Journ. Agric. Research XXI [1921], p. 263—264.)
- Rands, R. D.** Early Blight of Potato and related Plants. (Agric. Experim. Stat. Univ. of Wisconsin, Research Bull. Nr. 42 [1917], 48 pp., 10 Figs.)
— *Alternaria* on *Datura* and potato. (Phytopathology VII [1917], p. 327—338, 4 Figs.)
— Selectie van een zeer productief ras van Hevea, dat een groot weerstandsvermogen tegen bruine binnenbast-ziekte vertoont. (Mededeel. v. h. Instituut voor Plantenziekten Buitenzorg Nr. 42 [1920], 13 pp. mit englischer Zusammenfassung.)
- Rankin, W. H.** The penetration of foreign substances introduced into trees. (Phytopathology VII [1917], p. 5—12, 1 Fig.)
— White pine blister rust. (Tree Talk IV [1917], p. 77—78, 17 Fig.)
- Reddick, D.** Powdery mildew of grapes and its control in the United States. (Rep. Internat. Congr. Viticulture 1915 [1916], p. 117—125.)
- Reddick, D. and Stewart, V. B.** Additional varieties of beans susceptible to mosaic. (Phytopathology IX [1919], p. 149—152.)
- Reed, G. B.** The powdery mildews of *Avena* and *Triticum*. (Missouri Agric. Experim. Stat. Research Bull. XXIII [1916], 19 pp.)
- Rees, C. C. and Macfarlane, W.** A bibliography of recent literature concerning plant-disease prevention. (Illinois Agr. Exp. Stat. Circ. 183 [1915], p. 2—78.)
- Reinking, O.** *Phytophthora Faberi* Maubl. the cause of coconut bud rot in the Philippines. (Philipp. Journ. Sci. Bot. XIV [1919], p. 131—151, Pl. I—III.)
- Rhoads, A. S.** Some new or little-known hosts for wood-destroying fungi. (Phytopathology VII [1917], p. 46—48.)
- Rhoads, A. S., Hedgecock, G. G., Bethel, E. and Hartley, C.** Host relationships of the North American rusts, other than *Gymnosporangium*s, with attack conifers. (Phytopathology VIII [1918], p. 309—352.)
— Some new or little known hosts for wood-destroying fungi II. (Phytopathology VIII [1918], p. 164—167.)
- Riccobono, V.** Malattie delle Coctee e rimedi. (Boll. Sci.ortic. di mu. Soccors. Palermo XVII [1919], p. 38—40.)
- Richards, B. L.** Pathogenicity of *Corticium vagum* on the Potato as affected by soil temperature. (Journ. Agric. Research Washington XXI [1921], p. 459—482, Pl. LXXXVIII—XCIII, 5 Textfig.)
- Rivera, Vincenzo.** Osservazioni sopra la moria dei mandorli prodotta dal *Fomes fulvus*. (Boll. mens. inform. e notizie Roma II [1921], p. 28—29.)
— Sopra l'azione del *Fomes fulvus* (Scop.) Fries sul mandorlo. (Le Staz. Sperim. Agrarie ital. LIV [1921], p. 114—118.)
- Riza, Ali.** Deux nouvelles observations: *Puccinia Pruni-spinosae* sur Pommier et *Uromyces Terebinthi* sur *Pistacia vera*. (Bull. Soc. mycol. France XXXVI [1920], p. 125—127, 2 Figs.)
- Robbins, W. W. and Reinking, O. A.** Fungous diseases of Colorado crop plants. (Colorado Agric. Exp. Stat. Bull. 212 [1915], p. 1—54, Pl. 1—XIX.)

- Roberts, J. W.** Control of peach bacterial spot in southern orchards. (U. S. Dept. Agric. Bull. no. 543 [1917], 7 pp.)
- Apple blotch and its control. (U. S. Dept. Agric. Bull. no. 534 [1917], 11 pp., 2 Pls., 3 Figs.)
 - The source of apple bitter-rot infections. (Ibidem Bull. no. 684 [1918], 25 pp., 5 Pls.)
- Rogers, J. M. and Earle, F. S.** A simple and effective method of protecting citrus against stem-end rot. (Phytopathology VII [1917], p. 361—367.)
- Rolfs, F. M.** A bacterial disease of stone fruits. (Cornell Agric. Exp. Stat. Mem. VIII [1915], p. 381—436, Fig. 59—70.)
- Angular leaf-spot of cotton. (S. Carolina Agric. Experim. Stat. Bull. no. 184 [1915], p. 5—30. Pl. I—IX.)
- Rorer, J. B.** A disease of immortal trees. (Bull. Dept. Agric. Trinidad and Tobago XIV [1915], p. 128—129.)
- Citrus canker. (Ibidem p. 130—131.)
 - Coconut bud-rot. (Ibidem p. 129—130.)
 - Plant diseases and pests. The anthracnose of the mango. (Bull. Dept. Agric. Trinidad and Tobago XIV [1915], p. 164—171, Pl. 1.)
 - Plant diseases and pests. The pink disease of cacao. (Ibidem XIV [1916], p. 1—4. 2 Fig.)
 - Algal disease of cacao. (Ibidem XVII [1917], p. 345—348.)
 - The fungous diseases of the Avacado. (Bull. Depart. Agric. Trinidad and Tobago XVIII [1919], p. 132—133, 3 Pls.)
 - Fungous diseases of Cassava. (Ibidem XIV [1915], p. 36—39.)
 - The Pink disease of Cacao. (Ibidem XV [1916], p. 86—89, 2 Figs.)
- Rose, D. H.** Oxidation in healthy and diseased apple bark. (Bot. Gazette LX [1915], p. 55—65.)
- Rosen, H. R.** A bacterial root-rot of field corn. (Univ. Arkansas Experim. Stat. Bull. no. 162 [1919], 6 pp., 4 Pls.)
- Rosen, H. R. and Kirby, R. S.** A comparative morphological study of aecia of four different rusts found upon barberries in North America. (Phytopathology IX [1919], p. 569—573, Pl. XXXVIII—XXXIX.)
- Rosenbaum, J.** Disease of ginseng. (Cornell Agr. Experim. Stat. Bull. 363 [1915], p. 65—106, Fig. 1—18.)
- Infection experiments on tomatoes with *Phytophthora terrestris* Sherb. and a hot water treatment of the fruit. (Phytopathology X (1920), p. 101—105.)
 - Studies with *Macrosporium* from tomatoes. (Ibidem X [1920], p. 9—21, Pl. II—III, 1 Fig.)
- Sackett, Walter, G.** A Bacterial Stem Blight of Field and Garden Peas. (Bull. of the Agric. Experim. Stat. of the Colorado Agric. College Nr. 218 [1916], 43 pp., 3 Pl., 1 davon col., Fig. I—III.)
- A bacterial stem blight of field and garden peas. (Colorado Agric. Experim. Stat. Bull. no. 218 [1916], p. 3—43, 2 Pls., 3 Fig.)
 - A bacterial disease of the Wragg cherry. (Journ. Bact. II [1917], p. 79—80.)
 - Diseases of beaus. (Bull. no. 234 Agric. Experim. Stat. Colorado Agric. College, Fort Collins 1918, p. 23—32, 6 Figs.)
- Salter, R. C.** The behavior of legume bacteria in acid and alkaline media. (Proceed. Jowa Acad. Sci. XXIII [1916], p. 309—313, Fig. A—B.)
- Sanders, J. G.** Save us from invading pests. (Amer. Forest. XXIII [1917], p. 147—153, illustr.)
- The European potato wart disease discovered in Pennsylvania. (Month. Bull. State Com. Hort. Calif. VIII [1919], p. 10—12, Fig. 6—8.)

- Sanderson, A. R. and Sutcliffe, H.** Brown Bast. (Rubber Growers Assoc. May 1921.)
- Scales, F. M.** Some filamentous fungi tested for cellulose destroying power. (Bot. Gaz. LX [1915], p. 149—153.)
- Scherpe, R.** Untersuchungen über die Ursache der Dörrfleckenkrankheit des Hafers. (Arbeiten a. d. Biol. Reichsanst. f. Land- u. Forstw. X [1921], Heft 4.)
- Schlupp, W. F.** Rodent Injury of trees. — Cause, Prevention, and Repair. (Journ. Dept. Agric. Union of South Africa VIII [1921], p. 445—455, with 3 Plates.)
- Schmitz, H.** Preliminary note on the occurrence of *Peridermium balsameum* in Washington. (Phytopathology VI [1916], p. 369—371, Fig. 1—2.)
— Some observations on witchesbrooms of cherries. (Plant World XIX [1916], p. 239—242.)
— Observations on some common and important diseases of the Rhododendron. (Phytopathology X [1920], p. 273—278, Pl. II.)
- Schneider, A.** A parasitic Saccharomycete of the tomato. (Phytopathology VI [1916], p. 395—399, Fig. 1—4.)
— Further note on a parasitic Saccharomycete of the tomato. (Phytopathology VII [1917], p. 52—53.)
- Schultz, E. S. and Folsom, Donald.** Leafroll, Net-Necrosis, and Spindling-Sprout of the Irish Potato. (Journ. Agricult. Research Washington XXI [1921], p. 47—80, Plates I—XII.)
— — Transmission of the mosaic disease of Irish potatoes. (Journ. Agric. Research Washington XIX [1920], p. 315—337, Pl. XLIX—LVI.)
- Scotfield, C. S.** Cotton Rootrot in the San Antonio Rotations. (Journ. Agric. Research, Washington Vol. XXI [1921], p. 117—125.)
- Seabra, A. F. de.** Études sur les maladies et les parasites du caçaoyer et d'autres plantes cultivées à S. Thomé. (Mém. Soc. Portug. Sci. nat. III, Fasc. I [Lisbonne 1917], 28 pp., 24 Figs.)
- Sears, F. C.** Productive orcharding. (Philadelphia 1919, p. 1—XIV and 1—315, 155 Figs.) — Enthält ein Kapitel über Pflanzenkrankheiten.
- Seaver, F. J.** Damage from soil fungi. (Journ. New York Bot. Gard. XVIII [1917], p. 186—188.)
- Selby, A. D.** Diseases of wheat. Methods of control possible by seed treatment. (Ohio Agric. Experim. Sta. Monthly Bull. II [1917], p. 219—222.)
— Apple blotch, a serious fruit disease. (Bull. Ohio Agric. Experim. Stat. Nr. 333 [1919], p. 491—505, Fig. 1—5.)
- Sharples, A.** Bark canker in *Hevea brasiliensis*. (Kew Bull. 1917, p. 219—225.)
— The significance of diseases in the economy of Malayan rubber plantations. (Ibidem p. 225—229.)
- Shear, C. L.** Pathological aspects of the federal fruit and vegetable inspection service. (Phytopathology VIII [1918], p. 155—160.)
— Cranberry Diseases and their Control. (U. S. Departm. Agriculture Farmers Bull. Nr. 1081 Bureau of Plant Industry Washington, 22 pp., 12 Fig.)
- Shear, Stevens, N. E. and Rudolph, B. A.** Observations on the spoilage of cranberries due to lack of proper ventilation. (Massachusetts Agric. Experim. Stat. Bull. no. 180 [1918], p. 235—239.)
- Shear, C. L. and Stevens, N. E.** The discovery of the chestnut-blight parasite (*Endothia parasitica*) and other chestnut fungi in Japan. (Science 2. ser. XLIII [1916], p. 173—176.)
— — Plant pathology today. (Sci. Mo. VII [1918], p. 235—243.)

- Shear, C. L., Stevens, N. E. and Wilcox, R. B. and Rudolph, B. A.** Spoilage of cranberries after harvest. (U. S. Depart. Agric. Bull. no. 714 [1918], 20 pp.)
- Sherbakoff, C. D.** Report of the associate plant pathologist. (Florida Agric. Experim. Stat. Report. (1916] 1917, p. 80 R—98 R., Fig. 12—16.)
- Some important diseases of truck crops in Florida. (Ibidem Bull. 139 [1917], p. 193—277, Fig. 76—112.)
- Fusaria of potatoes. (Cornell Agric. Experim. Stat. Mem. VI [1917], p. 97—270, 7 Pls., 51 Figs.)
- Tomato diseases. (Florida Agric. Experim. Stat. Bull. 146 [1918], p. 119—132, Fig. 119—132, Pl. 32—44.)
- Report of associate plant pathologist. (Florida Agric. Experim. Stat. Rep. [1917] 1918: 76 R—86 R., Fig. 3—8.)
- Shreve, E. B.** An analysis of the cause of variations in the transpiring power of Cacti. (Physiol. Researches II [1916], p. 73—127, Fig. 1—10.)
- Smith, C. O.** Comparative resistance of Prunus to crown gall. (Amer. Nat. LI [1917], p. 47—60, 6 Figs.)
- Smith, Erwin F.** Bacteria in relation to plant diseases. (Vol. III [Washington 1914], VIII+309 pp., 47 Pls., 138 Figs.)
- Tumors in plants. (Science 2. ser. XLIV [1916], p. 611—612.)
- Chemically induced crown gall. (Proceed. Nat. Acad. Sci. III [1917], p. 312—314.)
- Smith, E. F. and Godfrey, G. H.** Brown rot of Solanaceae on Ricinus. (Ibidem XLVIII [1918], p. 42—43.)
- Smith, E. F. and McCulloch, L.** Bacterium Solanacearum in beans. (Science II. ser. L [1919], p. 238.)
- Smith, Erwin F. and Mc Kenney, R. E. B.** A dangerous Tobacco Disease appears in the United States. (U. S. Departm. Agric. Washington Contrib. Bur. Plant Industry Circ. no. 174 [1921].)
- — Suggestions to Growers for treatment of Tobacco Blue-Mold Disease in the Georgia-Florida District. (U. S. Departm. Agric. Circular no. 176 [1921], 4 pp.)
- — The present status of the Tobacco Blue-Mold (Peronospora) Disease in the Georgia-Florida District. (U. S. Dept. Agric. Departm. Circular Nr. 181 [1921], 4 pp.)
- Smith, Erwin F. and Godfrey, G. H.** Bacterial Wilt of Castor Bean. (Ricinus communis L.). (Journ. Agric. Research Washington XXI [1921], p. 255—261, Plates LV—LXVII.)
- Spaulding, P.** Foresters have a vital interest in the white pine blister rust. (Proceed. Soc. Am. Foresters II [1916], p. 40—47.)
- The blister rust disease of white pine. (Amer. Forestry XXII [1916], p. 97—98, Fig. A—D.)
- Spaulding, P., Detweiler, S. B., Pettis, C. R. and Metcalf, H.** The white pine blister disease. (Amer. Forest. XXIII [1917], p. 67—74, illustr.)
- Spaulding, P. and Gravatt, G. F.** Inoculations of Ribes with Cronartium ribicola Fischer. (Science 2. ser. XLVI [1917], p. 243—244.)
- Spaulding, P. and Pierce, R. G.** State and national quarantines against the white pine blister rust. (Phytopathology VII [1917], p. 319—320.)
- Stahel, Gerold.** De Zeevatenziekte (Phloëmnecrose) van de Liberiakoffie in Suriname. (Departm. van Landbouw in Suriname Bull. Nr. 40 [Paramaribo 1920], 26 pp., Pl. I—V.)
- De Sclerotium-ziekte van de Liberiakoffie in Suriname veroorzaakt door Sclerotium coffeicolum n. spec. (Departm. van den Landbouw in Suriname Bull. Nr. 42 [1921], 34 pp., Pl. I—XI.)

- Stakman, E. C.** The black stem rust and the barberry. (Yearbook U. S. Dept. Agric. [1918] 1919, p. 75—100. Pl. I—IX, Fig. I.)
- Stakman, E. C. and Hoerner, G. R.** The occurrence of *Puccinia graminis tritici compacti* in the southern United States. (Phytopathology VIII [1918], p. 141—149, 2 Figs.)
- Stakman, E. C. and Krakover, L. J.** *Puccinia graminis* on natives *Berberis canadensis*. (Phytopathology X [1920], p. 305—306.)
- Stakman, E. C. and Levine, M. N.** Rye smut. (Minnesota Agric. Experim. Stat. Bull. 160 [1916], 19 pp., 6 Fig.)
- Stevens, F. L.** Some Meliocolous Parasites and Commensals from Porto Rico. (Bot. Gazette Vol. LXV [1918], p. 227—249, Pl. V—VI.)
- Foot-rot disease of wheat. Historical and bibliographic. (Illinois Nat. Hist. Surv. Bull. XLII [1919], p. 259—286, 1 Fig.)
- Problems of Plant Pathology. (Bot. Gazette LXIII [1917], p. 297—306.)
- The Relation of Plant Pathology to Human Welfare. (Am. Journ. Bot. VIII [1921], p. 315—322.)
- Stevens, H. E.** Citrus canker III. (Florida Agric. Experim. Stat. Bull. 128 [1915], 20 pp., 6 Figs.)
- Report of the plant pathologist. (Florida Agric. Experim. Stat. Report [1916] 1917, p. 66 R—79 R., Fig. 10—11.)
- Lightning injury to citrus trees in Florida. (Phytopathology VIII [1918], p. 283—285, 1 Fig.)
- Recovery of a tree from a lightning stroke. (Phytopathology VI [1916], p. 204—206.)
- Report of plant pathologist. Citrus diseases. (Ibidem Report [1917] 1918, 66 R.—75 R., 2 Fig.)
- Melanose II. (Florida Agric. Experim. Stat. Bull. 145 [1918], p. 103—116, Fig. 26—31.)
- Stevenson, J. A.** The mottling or yellow-stripe disease of sugar cane. (Journ. Dept. Agric. Porto Rico III [1919], p. 3—76.)
- Citrus scab in Porto Rico. (Porto Rico Dept. Agric. and Lab. Experim. Stat. Bull. XVII [1917], 16 pp.)
- Wood rot of citrus trees. (Porto Rico Dept. Agric. and Lab. Experim. Stat. Rio Piedras Circ. X [1917], 10 pp.)
- An epiphytotic of cane disease in Porto Rico. (Phytopathology VII [1917], p. 418—425, 2 Figs.)
- The green nuscardine fungus in Porto Rico. (Journ. Departm. Agric. Porto Rico II [1918], p. 19—32, 1 Pl.)
- Report of the Department of Pathology and Botany. (Ann. Rep. Ins. Experim. Stat. Porto Rico 1917, p. 37—83.)
- Stevenson, J. A. and Rose, R. C.** Vegetable diseases. (Ann. Rep. Ins. Experim. Stat. [Porto Rico 1917], p. 83—98.)
- Stewart, F. C.** The velvet-stemmed *Collybia*. — A wild winter mushroom. (Bull. New York Agric. Exp. Stat. Geneva Nr. 448 [1918].)
- A *Phoma* blight of red cedar. (Phytopathology VIII [1918], p. 33—34.)
- Notes on New York plant diseases II. (New York Agric. Experim. Stat. Bull. no. 463 [1919], p. 3—9, Pl. 1—11.)
- Stewart, V. B.** Some important leaf diseases of nursery stock. (Cornell Agric. Exp. Stat. Bull. 358 [1915], p. 169—226, Fig. 66—94.)
- Exclusion legislation and fruit tree production. (Phytopathology VIII [1918], p. 360—364.)

- Stewart, V. B.** The leaf blotch disease of horse-chestnut. (Phytopathology VI [1916], p. 5—19, Pl. II—IV, 1 Fig.)
 — A twig and leaf disease of *Kerria japonica*. (Phytopathology VII [1917], p. 399—407, 6 Fig.)
- Stewart, V. B. and Leonard, M. D.** Further studies in the rôle of insects in the dissemination of fire blight bacteria. (Phytopathology VI [1916], p. 152—158.)
- Stift, A.** Über im Jahre 1919 veröffentlichte bemerkenswerte Arbeiten und Mitteilungen auf dem Gebiete der tierischen und pflanzlichen Feinde der Zuckerrübe. (Centralbl. f. Bakteriol. usw. II. Abt. LII [1920], p. 244—252.)
- Stone, G. E.** Shade trees, characteristics, adaptation, diseases, and care. (Massachusetts Agric. Exp. Stat. Bull. Nr. 170 [1916], p. 124—264, 109 Figs.)
- Stone, R. E.** Studies in the life histories of some species of *Septoria* occurring on *Ribes*. (Phytopathology VI [1916], p. 419—427, 2 Figs.)
 — Orange rust of *Rubus* in Canada. (Phytopathology VIII [1918], p. 27—29, 1 Fig.)
 — A new stem-rot and wilt of tomatoes. (Ibidem IX [1919], p. 296—298, 2 Figs.)
- Stover, W. G. and Coons, G. R.** St. Louis Conference on take-all and flag smut of wheat. (Phytopathology IX [1919], p. 330—332.)
- Stuckey, H. P.** Transmission of resistance and susceptibility to blossom-end rot in tomatoes. (Georgia Agr. Exp. Stat. Bull. CXXI [1916], p. 83—91, Fig. 1—3.)
- Studhalter, R. A. and Ruggles, A. G.** Insects as carriers of the chestnut blight fungus. (Pennsylvania Dept. Forest Bull. XII [1915], p. 7—33, 4 Figs.)
- Swingle, D. B. and Morris, H. E.** Crown-gall injury in the orchard. (Montana Agric. Experim. Stat. Bull. no. 121 [1918], p. 123—139, 6 Figs.)
 — — Plum pocket and leaf gall on American plums. (Ibidem Circ. no. 77 [1918], p. 153—164, 6 Fig.)
- Tanaka, T.** Notes on some fungous diseases and a new codling moth attacking the persimmon in Japan. (Month. Bull. State Comm. Hort. Calif. VII [1918], p. 461—463.)
- Taubenhaus, J. J.** A contribution to our knowledge of silver scurf (*Spondylocladium atrovirens* Harz) of the white potato. (Mem. New York Bot. Gard. VI [1916], p. 549—560, Pl. XLI—XLIII.)
 — On a sudden outbreak of cotton rust in Texas. (Science 2. ser. XLVI [1917], p. 267—269.)
 — Field diseases of the sweet potato in Texas. (Texas Agric. Experim. Stat. Bull. no. 249 [1919], p. 3—22, Fig. 1—34.)
- Taubenhaus, J. J. and Manns, T. T.** The disease of the sweet potato and their control. (Delaware Agric. Exp. Stat. Bull. 109 [1915], 55 pp., 65 Figs.)
- Taylor, M. W.** Preliminary report on the vertical distribution of *Fusarium* in soil. (Phytopathology VII [1917], p. 374—378.)
- Temple, C. E.** Diseases and insect pests of the potato. (Idaho Agric. Experim. Stat. Bull. 79 [1914], p. 40—67, Fig. 1—14.)
 — Report of the State Pathologist. (Maryland Agric. Soc. Rep. II [1918], p. 161—169.)
- Thomas, C. C.** Coix smut. (Phytopathology X [1920], p. 331—333.)
- Thomas, H. E.** Report of the plant pathologist. (Rep. Porto Rico Agric. Experim. Stat. [1917] 1918, p. 28—30.)
- Thomas, Roy C.** A new lettuce disease. (Ohio Agric. Experim. Stat. V [1920], p. 24—25.)
- Thompson, M. T.** An illustrated catalogue of American insect galls. (66 pp., 21 Pls., 1915 by Dr. E. P. Felt.)
- Tisdale, W. B.** Iris leaf-spot caused by *Didymellina iridis*. (Phytopathology X [1920], p. 148—163, Fig. 1—6.)

- Tisdale, W. H.** Relation of temperature to the growth and infecting power of *Fusarium lini*. (Phytopathology VII [1917], p. 356—360, Pl. II, 1 Fig.)
 — Relation of soil temperature to infection of flax by *Fusarium lini*. (Phytopathology VI [1916], p. 412—413.)
- Tisdale, W. H. and Griffith, Marion A.** Flag smut of wheat and its control. (Farmers Bull. no. 1213 [1921], 6 pp., 2 Fig.)
- Tracy, W. W.** Tomato culture. (New York 1919, p. 1—X, 1—150, Fig. 1—43.) — Enthält ein Kapitel mit Beiträgen über Pflanzenkrankheiten von W. A. Orton.
- Traverso, G. B.** La „lebbra“ ed il „vaiolo“ del Sommeaco due malattie nuove per l'Italia. (Le Stazioni sperim. agr. ital. Vol. LII [1919], p. 213—226 con 2 tavole.)
 — Gelate tardive ed infezione di rognia degli olivi nel 1919. (Staz. sperim. agrarie ital. LII [1919], p. 463—484, 6 Fig.)
- Trelease, W.** Two leaf-fungi of Cyclamen. (Transact. Illinois Acad. Sci. IX [1916], p. 143—146.) — *Ramularia cyclaminicola* und *Phyllosticta cyclaminicola*. spp. nov.
- Trotter, A.** Osservazioni ricerche istologiche sopra alcune morfosì vegetali determinate da funghi. (Marcellia XV [1917], p. 58—111, Pl. I—III, 14 Fig.)
- Tureoni, Malusio.** Sopra una nuova malattia del Cacao. (*Theobroma Cacao* L.). (Atti Istit. Bot. R. Univ. Pavia Laborat. Crittog. ital. XVII [1920], p. 1—8, Tav. I.)
- Turner, W. F.** *Nezara viridula* and kernel spot of pecan. (Science 2. Ser. XLVII [1918], p. 490—491.)
- Van der Bijl, Paul A.** „Apple Cracking“ and „Apple Branch Blister“. Caused by the fungus *Coniothecium chomatosporum*. (Agric. Journ. Union South Africa VIII [1914], p. 64—69, 6 Figs.)
 — La Leaf Spot of the Pea-Nut or Monkey — Nut Plant. (Journ. Dept. Agric. Union South Africa I [1920], p. 528—530, 2 Figs.)
- Van Pelt, W.** Some important clover diseases in Ohio. (Month. Bull. Ohio Agric. Experim. Stat. III [1918], p. 239—243, 2 Figs.)
- Vasey, H. E.** Millet Smuts and their Control. (Bull. Agricult. Exp. Stat. Colorado Agric. College Nr. 242 [1918], 22 pp, 11 Fig.)
- Vincens, F.** Quelques maladies des plantes cultivées au Pará (Brésil). (Bull. Soc. Pathol. végét. V [1918], p. 44—55.)
- Vogel, J. H.** A rose graft disease. (Phytopathology IX [1919], p. 403—412, 6 Figs.)
- Wakefield, E. M.** A Disease of the Yam. (Kew Bull. 1918, p. 199—201, 1 Fig.)
- Wakefield, Miss E. M.** Mosaic diseases of plants. (West Indian Bull. Barbados XVIII [1921], p. 197—206.)
- Walkden, H.** The Isolation of the Organism causing Crown Gall on *Chrysanthemum frutescens* in Britain. (Ann. of Bot. XXXV [1921], p. 137—138.)
- Walker, J. C.** Onion Smudge. (Journ. Agric. Research, Washington XX [1921], p. 685—721, Pl. 80—85, 10 Textfigs.)
- Walker, J. C. and Tisdale, W. B.** Observations on seed transmission of the cabbage black-rot organism. (Phytopathology X [1920], p. 175—177.)
 — Onion diseases and their control. (U. S. Dept. Agric. Farm. Bull. no. 1060 [1919], 23 pp, 12 Figs.)
- Weimer, J. L.** The distribution of buckeye rot of tomatoes. (Phytopathology X [1920], p. 172.)
- Weimer, J. L. and Harter, L. L.** Glucose as a Source of Carbon for certain Sweet Potato Storage-Rot Fungi. (Journ. Agric. Research XXI [1921], p. 189—210.)
- Weir, J. R.** Pathological observations on the chestnut in southern Indiana. (Amer. Rep. Indiana State Board Forestry 1915, p. 140—163, Fig. 26—32.)

- Weir, J. R.** Pathological marking rules for Idaho and Montana. (Journ. Forestry XVII [1919], p. 666—681.)
- *Keithia thujina*, the cause of a serious leaf disease of the western red cedar. (Phytopathology VI [1916], p. 360—363, Fig. 1—2.)
- Forest disease surveys. (U. S. Dept. Agric. Bull. no. 658 [1918], p. 1—23, Fig. 1—23.)
- *Pinus ponderosa* and *P. Jeffreyi* hosts for *Razoumofskya americana*. (Phytopathology VI [1916], p. 414.)
- *Phacidium infestans* on western conifers. (Phytopathology VI [1916], p. 413—414.)
- Notes on wood-destroying fungi which grow on both coniferous and deciduous trees. II. (Phytopathology VII [1917], p. 379—380.)
- New hosts for *Razoumofskya laricis*. (Phytopathology VIII [1918], p. 62—63.)
- Weir, J. R. and Hubert, E. E.** Notes on forest tree rusts. (Ibidem p. 114—118.)
- — A successful inoculation of *Abies lasiocarpa* with *Pucciniastrum pustulatum*. (Phytopathology VI [1916], p. 373.)
- Successful inoculation of *Larix occidentalis* and *Larix europaea* with *Melampsora Bigelowii*. (Phytopathology VI [1916], p. 372—373.)
- — A study of the rots of western white pine. (U. S. Dept. Agric. Bull. no. 799 [1919], 24 pp.)
- — A study of heart-rot in western hemlock. (U. S. Dept. Agric. Bull. no. 722 [1918], 37 pp., 13 Figs.)
- — The influence of thinning on western hemlock and grand fir infected with *Echinodontium pinetorum*. (Journ. Forest. XVII [1919], p. 21—35, 1 Fig.)
- Weldon, G. P.** Pear growing in California. (Month. Bull. State Comm. Hort. Calif. VII [1918], p. 222—410, 186 Figs.)
- Wells, Bertram, W.** The comparative morphology of the zoococcidia of *Celtis occidentalis*. (Ohio Journ. Science XVI [1916], p. 249—290.)
- The Zoococcidia of Northeastern United States and Eastern Canada. (Bot. Gazette LXV [1918], p. 535—542.)
- West, Erdman.** An undescribed timber decay of Hemlock. (Mycologia XI [1919], p. 262—266.)
- West, Cyril.** On *Stigeosporium Marattiacearum* and the Mycorrhiza of the Marattiaceae. (Ann. of Bot. XXXI [1917], p. 77—99, Pl. III, 9 Figs.)
- Westerdijk, Joh. en van Luyk, A.** *Phytophthora erythroseptica* Peth. als Parasit von *Atropa belladonna*. (Mededeel. uit het phytopathol. Laborat. „Willie Commelin Scholten“ IV [1920], p. 31—32, 2 Textfig.)
- — Die künstliche Kultur von *Phoma*-Arten. (Mededeel. uit het Phytopath. Laborat. „Willie Commelin Scholten“ IV [1920], p. 26—30.)
- — Die Gloeosporien der Eiche und der Platane. (Mededeel. uit het Phytopath. Laborat. „Willie Commelin Scholten“ IV [1920], p. 3—21, 6 Fig., 10. Graph. Vorst.)
- Weston, William H.** Another Conidial Sclerospora of Philippine Maize. (Journal Agric. Research Washington XX [1921], p. 669—684, Pl. 76—79.)
- Whetzel, H. H.** The diseases of roses. (Amer. Rose Ann. 1916, p. 53—56.)
- An outline of the history of phytopathology. (Philadelphia 1918, 130 pp., illustr.)
- Whetzel, H. H. and others.** Ginseng diseases and their control. (U. S. Dept. Agric. Farmers Bull. 736 [1916], 22 pp., 26 Figs.)
- Williams, C. B.** Mosaic disease of Sugarcane in Trinidad. (Agric. News Vol. XIX [1920], p. 126 and Bull. Dept. Agric. Trinidad and Tobago XIX [1920], p. 30—36.)
- Willis, M. A.** A root disease of prunes. (Phytopathology VI [1916], p. 368—369.)

- Wilson, G. W.** Rusts of Hamilton and Marion Counties, Indiana. (Proceed. Indiana Acad. Sci. (1916] 1917, p. 382—383.)
- Wilson, H. F.** The common cabbage worm in Wisconsin (*Pontia rapae* Linn.). (Agric. Experm. Stat. Union Wisconsin Research Bull. Nr. 45 [1919], 35 pp., 11 Figs.)
- Winston, John R.** Tear-Stain of Citrus Fruits. (U. S. Dept. Agric. Washington, Bull. Nr. 924 [1921], 12 pp., 2 Fig.)
- Wolf, F. A.** Dissemination of bur clover leaf spot. (Phytopathology VI [1916], p. 301.)
 — *Neocosmospora vasinfecta* Erw. Sm. on potato and adzuki bean. (Ibidem VI [1916], p. 301.)
 — *Sclerotium Rolfsii* Sacc. on Citrus. (Ibidem VI [1916], p. 302.)
 — Citrus canker. (Alabama Agric. Experm. Stat. Bull. 190 [1916], p. 91—100, Pl. I—II, 6 Textfig.)
- Wolf, F. A. and Moss, E. G.** Diseases of flue-cured tobacco. (Bull. N. C. Dept. Agric. XL [1919], p. 5—45, 24 Figs.)
 — A bacterial leaf-spot of velvet bean. (Phytopathology X [1920], p. 73—80, 2 Fig.)
 — Bacterial blight of soybean. (Ibidem p. 119—132, 5 Fig.)
- Wolf, F. A. and Cromwell, R. O.** Clover stem rot. (North Carolina Agric. Experm. Stat. Bull. no. XVI [1919], 18 pp., 3 Pls.)
- Wolf, Frederick A.** A little-known Vetch Disease. (Journ. Elisha Mitchell Scientif. Soc. XXXVI [1920], p. 72—85, Pl. II—VI.)
- Wormald, H.** The „Brown Rot“ Diseases of Fruit Trees, with Special Reference to two Biologic Forms of *Monilia cinerea* Bon. I. (Ann. of Bot. XXXIII [1919], p. 361—404, Pl. XXV—XXVI.)
 — The „Brown Rot“ Diseases of Fruit Trees, with Special Reference to two Biologic Forms of *Monilia cinerea*, Bon. II. (Ann. of Bot. XXXIV [1920], p. 143—171, Pl. IV—V.)

C. Sammlungen.

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- Hediecke, H.** Herbarium tierischer Fraßstücke. Lief. 5 (No. 101—125). 1920. M. 80.—
- Hylmö, D. E.** Skandinavische Meeressalgen. Cent. I (1916.)
- Sydow, Mycotheca germanica** Fasc. XXIX—XXXVI (No. 1401—1800). (Ann. Mycol. XIX [1921], p. 132—144.)
- Weiß, J. E.** Herbarium pathologicum (fortgesetzt von R. Staritz). Große Ausgabe. Lief. 6 und 7 (No. 126—175). 1921. Je M. 15.—
- Zahlbruckner, A.** Schedae ad „Kryptogamas exsiccatas“ editae a Musco Palatino Vindobonensi Cent. XXIII. (Ann. Naturhist. Hofmus. Wien XXIX, p. 454—482.)
 — Schedae ad „Kryptogamas exsiccatas“ edita a Museo Palatino Vindobonensi Cent. XXIV. (Ann. Naturhist. Hofmus. Wien XXX, p. 197—225.)

D. Personalnotizen.

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