

army
AWB
B846

AWPB
B846
1933

A BIBLIOGRAPHY OF MATRICARIA CHAMOMILLA LINNE

BY

RICHARD THEODORE BUERSTATTE

The original was not available.

Pliny, C.

(81 - 113)

The Anibensis, Leucanthesis, Leucanthema, Chamomelum, or Matricaria, Three Varieties of it; Eleven remedies.

Natural History, Book 22, Chap. 88, v. 4, p. 121. (Marzell, Unsere Heilpflanzen, p. 212; Fluckiger, Pharmacognosie des Pflanzenreiches, 3 ed., p. 632; Bauhin, Pinax, p. 133.)

Gives the names of several varieties of chamomile, a description of the plant, the time of collection, the parts used, and the uses.

A THESIS SUBMITTED FOR THE DEGREE OF
GRADUATE IN PHARMACY

(ca. 18 C.)

[Matricaria]

Calendrier rural de Paris, (p. 1737, p. 75. (Fluckiger, Pharmacognosie des Pflanzenreiches, 3 ed., p. 632.)

The original was not available.

Palladius, R. P. A.

1472

[Matricaria]

In re rustica, Book 7, p. 10; Eibard's Ausgabe, p. 605. (Fluckiger, Pharmacognosie des Pflanzenreiches, 3 ed., p. 632.)

The original was not available.

UNIVERSITY OF WISCONSIN

1933

Hippocrates, --

(ca. 400 B. C.)

(Parthenion leptophyllon)

Opera omni, v.---, p.---. Bauhin, Pinax, p. 135.)

The original was not available.

Pliny, C.

(61 - 113)

The Anthemis, Leucanthemis, Leucanthemum, Chamaemelum, or Melanthium; Three Varieties of it; Eleven remedies.

Natural History, Book 22, Chap. 26; v. 4, p. 411. (Marzell, Unsere Heilpflanzen, p. 212; Fluckiger, Pharmacognosie des Pflanzenreiches, 3 ed., p. 832; Bauhin, Pinax, p. 135.)

Gives the names of several varieties of chamomile, a description of the plant, the time of collection, the parts used, and the uses.

(ca. 10 C.)

(Matricaria)

Calendrier rural d'Harib, (p. 173), p. 75. (Fluckiger, Pharmacognosie des Pflanzenreiches, 3 ed., p. 832.)

The original was not available.

Palladius, R. F. A.

1472

(Matricaria)

De re rustica, Book 7, p. 10; Nisard's Ausgabe, p. 608. (Fluckiger, Pharmacognosie des Pflanzenreiches, 3 ed., p. 832.)

The original was not available.

Macer Floridus

1487

(Matricaria)

De viribus herbarium, rec. Choulant (1832), p. 51. (Fluckiger, Pharmacognosie des Pflanzenreiches, 3 ed., p. 832.)

The original was not available.

Brunfels, O.

1534

(Matricaria)

Kreuterbuch, p. 70. (Marzell, Unsere Heilpflanzen, p. 212; Bauhin, Pinax, p. 135.)

The original was not available.

Fuchs, L.

1546

De Anthemide

De Historia Stirpium, p. 24. (Lobel, De Historia Stirpium, p. 433.)

Gives the names, four species, including German Chamomile, its uses, and a full-page illustration of the flowering plant, with comments by various early authors.

Cordus, V.

1548

Amaracum

Dispensatorium, pp. 352, 353, 355, 398, 428; *ibid.*, Lugdvni (1571), p. 361. (Fluckiger, Pharmacognosie des Pflanzenreiches, 3 ed., p. 832.)

Discusses *Matricaria* and *Marjoram* as being referred to under the above name.

Bock, H.

1551

von Metter

Kreuterbuch, p. 57. (Marzell, Unsere Heilpflanzen, p. 212.)

Describes the plant, giving a colored illustration, gives its time of flowering, and discusses its name and names of related plants.

Matthioli, P. A.

1568

Parthenium

De Plantis Epitome utilissima, p. 649.

Gives synonyms, description of the plant, habitat, properties, and uses, with an illustration of the plant.

Dodoens, R.

1569

De Sylvestribus Chamaemeles, sive Cotulis

Florum et Coronariarum, p. 240.

In connection with the flowers of Dogfennel, comments briefly on those of *Matricaria*.

Lobel, M.

before 1576

(Matricaria)

Adversarium, p. 335. (Lobel, Historia Stirpium, p. 433.)

The original was not available.

Lobel, M.

1576

Matricaria

Plantarum or Stirpium Historia, p. 433.

Gives the common names of Matricaria in several languages, and an illustration of the plant.

Thalius, J.

1577

(Chamaemelum album seu foetidum)

Sylva Hercynica, p.---. (Bauhin, Pinax, P. 135.)

The original was not available.

Ruland, M.

1578

(Matricaria)

Curatationum empiricarum et historicarum Centuriae X, p.---.
(Bull. Sci. Pharmacol., 31, p. 637.)

The original was not available.

Camerarius, J.

1588

(Matricaria)

Hortus medicus et philosophicus, p. 39. (Fluckiger, Pharmacog-
nosie des Pflanzenreiches, 3 ed., p. 833.)

The original was not available.

Lobelius, M.

1591

(Anthemis vulgaris)

Icones plantarum, p. 770. (Willdenow, Species Plantarum, 4 ed., v. 3, pt. 3, p. 2162; Bauhin, Pinax, p. 135.)

The original was not available.

Ziegler, A.

1616

(Matricaria)

Pharmacopoeia spagyrica, p.---. (Bull. Sci. Pharmacol., 31, p. 637.)

The original was not available.

Gerarde, J.

1633

Of Fetherfew

The Herball or Generall Historie of Plantes, 2 ed., p. 651.

Describes four kinds of Feuerfew, including Matricaria, and gives the places of growth, the time of flowering, various names for the plant, and its uses, with illustrations of the whole plants.

Zacutus Lusitanus

1649

(Matricaria)

De praxi medica admiranda, p.---. (Bull. Sci. Pharmacol., 31, p. 637.)

The original was not available.

La Framboisiere, N. A.

1669

De l'emplastre de Ranis, de Vigo

Les Oeuvres, p. 807.

Gives *Matricaria* as one of the ingredients in the above named plaster.

Bauhin, C.

1671

Chamaemelum et Cotula

Pinax, p. 135. (Willdenow, *Species Plantarum*, 4 ed., v. 3, pt. 3, p. 2162;)

Gives a list of names by various authors, with references.

Matthioli, P. A.

1680

Parthenium sive Matricaria

Les Commentaries de Dioscorides, Book 3, Chap. 138, p. 350. (Marzell, *Unsere Heilpflanzen*, p. 212; Fluckiger, *Pharmacognosie des Pflanzenreiches*, 3 ed., p. 832; Bauhin, *Pinax*, p. 135.)

Gives a description of the plant with an illustration, names in various languages, and comments on related plants.

Ray, J.

1686

De Parthenio aut Matricaria

Historiae Plantarum, v. 1, p. 357.

Gives a brief history and names by several authors, describes various parts, and gives a number of varieties with their habitat and uses.

Riedlin, G.

1695

(Matricaria)

Lineae medicae, p.---. (Bull. Sci. Pharmacol., 31, p. 637.)

The original was not available.

The original was not available.

Lemery, N.

1721

Matricaria

Dizionario Overo Trattato Universale, p. 226.

Gives common names, description of the plant, and uses of the flowers.

The original was not available.

Linne, C.

1737

(Matricaria)

Hortus cliffortianus, p. 415. (Linne, Species Plantarum, 1 ed., v. 2, p. 891; Willdenow, Species Plantarum, v. 3, 4 ed., pt. 3, p. 2162.)

(Describes Matricaria.)

(Describes Matricaria Chamomilla.)

Linne, C.

1738

(Anthemis vulgaris)

Flora lapponica, p. 309. (Willdenow, Species Plantarum, 4 ed., v. 3, pt. 3, p. 2162.)

The original was not available.

(Describes Matricaria Chamomilla.)

Royer, A.

1740

(Matricaria)

Florae Leydensis Prodrromus, p. 173. (Linne, Species Plantarum, 1 ed., v. 2, p. 891; Willdenow, Species Plantarum, 4 ed., v. 3, pt. 3, p. 2162.)

The original was not available.

Haller, A. V.

1742

(Matricaria foliis capillaribus duplicato-pinnatis, pinnis lanceolatis, bifidis trifidisque)

Stirpes helveticae, n. 101. (Willdenow, Species Plantarum, 4 ed., v. 3, pt. 3, p. 2161.)

The original was not available.

Linne, C.

1745

(Matricaria Chamomilla)

Flora Suecica, p. 702. (Linne, Species Plantarum, 1 ed., v. 2, p. 891; Curtis, Flora Londinensis, pt. 5, pl. 63; Linne, Materia Medica, 2 ed., p. 189; Willdenow, Species Plantarum, 4 ed., pt. 3, v. 3, p. 2161.)

(Describes Matricaria Chamomilla.)

Dalibard, F. F.

1749

(Matricaria Chamomilla)

Florae Parisiensis Prodrromus, p. 262. (Linne, Species Plantarum, 1 ed., v. 2, p. 891; Willdenow, Species Plantarum, 4 ed., v. 3, pt. 3, p. 2161.)

(Describes Matricaria Chamomilla.)

Gmetin, J. G.

1749

(Matricaria Chamomilla)

Flora siberica, etc., v. 2, p. 200. (Linne, Species Plantarum, 1 ed., v. 2, p. 891; Willdenow, Species Plantarum, 4 ed., v. 3, pt. 3, p. 2161.)

(Describes Matircaria Chamomilla.)

Linne, C.

1749

Matricaria Chamomilla

Materia medica, 1 ed., p. 402; ibid., 2 ed., p. 189. (Linne, Species Plantarum, 1 ed., v. 2, p. 891; Willdenow, Species Plantarum, 4 ed., v. 3, pt. 3, p. 2161.)

Describes the flowers, and gives common names, habitat, properties, uses, and preparations, with references.

Trew, C. J.

1750-1773

(Matricaria Chamomilla)

Herbarium Blackwelliarum, tab. 298. (Nees v. Esenbeck, Plantae Medicinales, v. 2, p. 227; Willdenow, Species Plantarum, 4 ed., v. 3, pt. 3, p. 2161.)

The original was not available.

Linne, C.

1753

Matricaria

Species Plantarum, 1 ed., v. 2, p. 891. (Berg and Schmidt, Atlas, 2 ed., v. 1, p. 6; Tschirch, Handbuch der Pharmakognosie, 1 ed., v. 2, p. 977; Bentley and Trimen, Medicinal Plants, v. 3, p. 155.)

Describes the flowers of Matricaria Chamomilla, together with other species of Matricaria, and gives its habitat, with references.

Kniphof, J. H.

1757 - 1764

(Matricaria Chamomilla)

Botanica in originali, etc., cent. 9, n. 64. (Nees v. Esenbeck, Plantae Medicinales, v. 2, p. 227; Willdenow, Species Plantarum, 4 ed., v. 3, pt. 3, p. 2161.)

The original was not available.

Senac, J. B. de

1759

(Matricaria)

De recondita februm intermit., etc., p.--. (6 to 16, provings of Prof. Hoppe in Homeop. V Jahrsschrift, 13; Allen, Encyclop. Pure Mat. Med., led., v. 3, p. 89.)

(Gives the effects of Matricaria Chamomilla when used in intermittents.)

(Matricaria Chamomilla) ---

Ludwig, C. G.

1760

(Matricaria Chamomilla)

Ectypa vegetabilium, etc., p. 131. (Nees v. Esenbeck, Plantae Medicinales, v. 2, p. 227; Willdenow, Species Plantarum, 4 ed., v. 3, pt. 3, p. 2161.)

The original was not available.

Linne, C.

1763

(Matricaria Chamomilla)

Species Plantarum, 2 ed., v. 2, p. 1256. (Wood and Bache, U. S. Dispens., 5 ed., p. 454; *ibid.*, 6 ed., p. 454; *ibid.*, 7 ed., p. 454; *ibid.*, 8 ed., p. 454; *ibid.*, 9 ed., p. 472; *ibid.*, 10 ed., p. 472; *ibid.*, 11 ed., p. 494; *ibid.*, 12 ed., p. 542; *ibid.*, 13 ed., p. 556; *ibid.*, 14 ed., p. 581; *ibid.*, 15 ed., p. 934; *ibid.*, 16 ed., p. 968; *ibid.*, 17 ed., p. 862;

ibid., 19 ed., p. 772; Darstellung und Beschreibung der Arzneigeqaechse, v. 1, p. 3; Oeder, Flora Danica, v. 10, pl. 1764; Curtis, Flora Londinensis, pt. 5, pl. 63; Linne, Materia Medica, 2 ed., p. 189.)

The original was not available.

Garsault, F. A. de

1765

Matricaria

Explication Abreegee, etc., p. 223.

Gives an explanation of plate no. 368, (Matricaria) and gives the virtues and uses of the drug.

Gunner, J. E.

1766 - 1772

(Matricaria Chamomilla)

Flora Norvegica, etc., no. 400. (Oeder, Flora Danica, v. 10, pl. 1764.)

The original was not available.

Lewis, W.

1771

Matricaria

Materia Medica, p. 376.

Gives pharmacopoeas in which it is official, common names, description of the plant and flowers, habitat, time of flowering, properties, and uses.

The original was not available.

Scopoli, J. A.

1772

(*Matricaria foliis supradecompositis, setaceis; receptaculis oblongis*)

Flora carniolica, 1 ed., p. 374; *ibid.*, 2 ed., p. 1042.
(Willdenow, *Species Plantarum*, 4 ed., v. 3, pt. 3, p. 2161.)

The original was not available.

Pollich, J. A.

1776 - 1778

(*Matricaria receptaculis conicis, radiis patentibus, seminibus nudis, squamis calycinis margine aequalibus*)

Historia neantarum in palatinatu, etc., n. 815. (Willdenow, *Species Plantarum*, 4 ed., v. 3, pt. 3, p. 2161.)

The original was not available.

Houttuyn, W.

1779

Matricaria Parthenium

Linne's *Natuurlyke Historie*, pt. 2, v. 9, p. 488. (Willdenow, *Species Plantarum*, 4 ed., v. 3, pt. 3, p. 2162.)

Lists common chamomile under the above name, listing several scientific synonyms with references, describes the plant, comments by various earlier writers, part used, and uses.

Zorn, J.

1779 - 1784

(*Matricaria*)

Icones plantarum officinarum, tab. 139. (Nees von Esenbeck, *Plantae Medicinales*, v. 2, p. 227.)

The original was not available.

Linne, C.

1784

Matricaria

Systema Vegetabilium, 16 ed., p. 774. (Curtis, Flora Londinensis, pt. 5, pl. 63.)

Describes the flowers of various species of Matricaria, including Chamomilla.

Allione, C.

1785

(Matricaria Chamomilla)

Flora Pedemontiana, v. 1, p. 192. (Berg and Schmidt, Atlas, 2 ed., v. 1, p. 6.)

The original was not available.

Monro, D.

1788

Matricaria Herba

Treatise on Medical and Pharmaceutical Chemistry, v. 3, p. 167.

Gives the properties and uses, with recommendations of various authors.

Roth, A. W.

1788

(Matricaria)

Tentamen Flora germanica, v. 1, p. 356; *ibid.*, v. 2, pt. 2, p. 317. (Hayne, Darst. u. Beschr. der Arzneig., v. 1, p. 3; Willdenow, Species Plantarum, 4 ed., v. 3, pt. 3, p. 2161.)

The original was not available.

Plenck, J. J.

1788 - 1812

(Matricaria Chamomilla)

Icones plantarum medicinarum, etc., pl. 617. (Berg and Schmidt, Atlas, 2 ed., v. 1, p. 6; Nees v. Esenbeck, Plantae Medicinales, v. 2, p. 227; Kunth, Anleitung zur Kenntniss der officinellen Gewachse, p. 266.)

The original was not available.

Jussieu, A. L. de

1789

(Matricaria)

Genera plantarum, etc., p. 183. (Nees v. Esenbeck, Plantae Medicinales, v. 2, p. 227.)

The original was not available.

Linne, C.

1789 - 1791

(Matricaria Chamomilla)

Genera Plantarum, edit. Schrever, p. 1308. (Nees v. Esenbeck, Plantae Medicinales, v. 2, p. 227.)

The original was not available.

Smith, J. E., and Soverly, J.

1790 - 1814

(Matricaria)

English Botany, etc., 1 ed., v. 18, p. 1232; *ibid.*, 2 ed., v.--, p. 902. (Berg and Schmidt, Atlas, 2 ed., v. 1, p. 6; Nees v. Esenbeck, Plantae Medicinales, v. 2, p. 227; Kunth, Anleitung zur Kenntniss der officinellen Gewachse, p. 266; Oeder, Flora Danica, v. 10, pl. 1764.)

The original was not available.

Hoffmann, G. F.

1791

(Matricaria)

Deutschlands Flora, P. I. p. 303. (Hayne, Darst. u. Beschr. d. Arzneig., v. 1, p. 3; Willdenow, Species Plantarum, 4 ed., v. 3, pt. 3, p. 2161.)

The original was not available.

Dreves, F.

1794 - 1804

(Matricaria Chamomilla)

Botanisches Bilderbuch, etc., v. 4, p. 124. (Berg and Schmidt, Atlas, 2 ed., v. 1, p. 6.)

The original was not available.

Willdenow, K. L.

1800

Matricaria Chamomilla

Species Plantarum, 4 ed., v. 3, pt. 3, p. 2161. (Oeder, Flora Danica, v. 10, pl. 1764.)

Gives a list of names with references, the habitat, and the common German synonyms of Matricaria Chamomilla.

Trommsdorff, J. B.

1806

Chamomillae vulgaris

Handbuch der pharmaceutischen Waarenkunde, 1 ed., p. 341. *ibid.*, 3 ed., p. 330.

Gives the constituents of the flowers, description of the flowers and the plant, and its habitat.

Schkuhr, C.

1808

(Matricaria Chamomilla)

Botanisches Handbuch, etc., v. 3, p. 253^o, (Berg and Schmidt, Atlas, 2 ed., v. 1, p. 6; Oeder, Flora Danica, v. 10, pl. 1764; Nees v. Esenbeck, Plantae Medicinales, V. 2, p. 227.)

The original was not available.

Bodart, P. H. H.

1810

(Matricaria)

Cours de botanique medicale comparee, etc., p.---. (Bull. Sci. Pharmacol., 31, p. 637.)

The original was not available.

Cullen, W.

1812

Chamaemelum

Materia Medica, 2 ed., v. 2, p. 56. (Allen, Encyclop. Pure Mat. Med., 1 ed., v. 3, p. 89.)

Gives the uses of chamomile, classifying it as a bitter.

Rude, --

1816

(Matricaria)

Pharmaz. Erfahrungen, p.---. (Tschirch, Handbuch der Pharm., 1 ed., v. 2, p. 986.)

The original was not available.

The original was not available.

Curtis, W.

1817

Matricaria Chamomilla, Corn Feverfew, or Camomile

Flora Londinensis, pt. 5, pl. 63. (Oeder, Flora Danica, v. 10, pl. 1764; Nees v. Esenbeck, Plantae Medicinales, v. 2, p. 227; Berg and Schmidt, Atlas, 2 ed., v. 1, p. 6; Bentley and Trimen, Medicinal Plants, v. 3, p. 155.)

Describes the plant and the flowers both in English and Latin, and discusses closely related plants, with a full-page, colored illustration of *Matricaria Chamomilla*.

Sprengel, K.

1822

(*Matricaria Chamomilla*)

Theophrastis Naturgeschichte des Gewachsr., p. 566. (Nees v. Esenbeck, Plantae Medicinales, v. 2, p. 227.)

The original was not available.

Oeder, G. C.

1823

Matricaria Chamomilla

Flora Danica, v. 10, pl. 1764. (Berg and Schmidt, Atlas, 2 ed., v. 1, p. 6.)

Describes the plant, giving several references and a full-page, colored illustration.

Richard, A.

1823

(*Matricaria Chamomilla*)

Botanique medicale, v. 1, p. 385. (Chevallier and Richard, Dictionnaire des Drogues, P. 438.)

The original was not available.

Hahnemann, S.

1825

Chamille - Mettram

Reine Arzneimittellehre, v. 3, p. 63. (Allen, Encyclop. Pure Mat. Med., 1 ed., v. 3, p. 89.)

Gives a detailed discussion of medicinal uses of chamomile compared with a number of other drugs. Gives a lengthy list of individual uses of chamomile.

Chevallier, A., and Richard, A.

1827

Matricaire Camomille

Dictionnaire des Drogues, p. 438.

Gives a detailed description of the plant and flowers, their medicinal use, and compares it with related plants.

Schwartz, G. W.

1827

Flores Chamomillae vulgaris

Pharmacognostische Tabellen, p. 75. (Tschirch, Handbuch der Pharm., 1 ed., v. 1, p. 985.)

Gives a description of the true Chamomile, compares it with other plants of the Compositae with which it is often confused, lists the constituents, and several special notations.

Nees von Esenbeck, T. F. L., and 3 others

1828

Matricaria Chamomilla. Lin.

Plantae medicinales, v. 2, p. 227. (Tschirch, Handbuch der Pharm., 1 ed., v. 2, p. 978; Berg and Schmidt, Atlas, 2 ed., v. 1, p. 6; Pabst-Kohler, Medizinalpfl., v. 2, p. 654; Bentley and Trimen, Medicinal Plants, v. 3, p. 155; Kunth, Anleitung zur Kenntniss der offizinellen Gewachse, p. 266.)

Describes the plant and the flowers, gives common names in various languages, and discusses the volatile oil, with a full-page, colored illustration and references.

Reichenbach, H. G. L.

1830 - 1832

(Matricaria)

Flora Germanica, excursia, v. 16, p. 997. (Berg and Schmidt, Atlas, 2 ed., v. 1, p. 6; Bentley and Trimen, Medicinal Plants, v. 3, p. 155; Tschirch, Handbuch der Pharm., 1 ed., v. 2, p. 978.)

The original was not available.

Nees v. Esenbeck, T. F. L. and Ebermaier, C. H.

1831

Matricaria Chamomilla Lin.

Handbuch der medicinal-pharmaceutischen Botanik, v. 2, p. 756.

Gives a description of the plant, particularly the inflorescence, compares the flowers with other similar flowers, discusses its history, lists the constituents, its uses, and several preparations.

Guimpel, F., and Schlechtendahl, D. F. L. v.

1833

(Matricaria Chamomilla)

Abbildung und Beschreibung et., v. 2, p. 122. (Berg and Schmidt, Atlas, 2 ed., v. 1, p. 6.)

The original was not available.

Herberger, J. E., and Damier, L.

1833

Vergleichende Analyse der Bluthen des Mutterkrauts und der gemeinen Chamille

Buchner's Repert f. Pharm., 44, p. 361. (Tschirch, Handbuch der Pharm., 1 ed., v. 2, p. 985.)

Makes parallel experiments on parts of the 2 plants with various solvents and reagents, and tabulates the results.

Bertoloni, A.

1833 - 1846

(Matricaria Chamomilla)

Flora Italica, etc., v. 9, p. 350. (Berg and Schmidt, Atlas, 2 ed., v. 1, p. 6.)

The original was not available.

Hahnemann, S.

1834

(Matricaria Chamomilla)

Traite de matiere medicale pure, p.---. (Bull. Sci. Pharmacol., 31, p. 638.)

The original was not available.

Kunth, K. S.

1834

Matricaria Linn. Mutterkraut

Anleitung zum Kenntniss der Offizinellen Gewachse, p. 266. (Berg and Schmidt, Atlas, 2 ed., v. 1, p. 6.)

Describes the plant and the flowers and gives the part official, an/ adulteration, and several references.

Wood, G. B. and Bache, F.

1834

Anthemis U. S.

U. S. Dispens., 2 ed., p. 92; ibid., 3 ed., p. 92; ibid., 4 ed., p. 95.

Compares Matricaria Chamomilla with Anthemis in the article on the latter.

Holl, F.

1835

(Matricaria)

Die Verwechslungen und Ähnlichkeiten die officinellen Pflanzen,
p. 5. (Tschirch, Handbuch der Pharm., 1 ed., v. 2, p. 986.)

The original was not available.

Baxter, W.

1835 - 1843

(Matricaria)

British phaenogamous Botany, V. 5, p. 355. (Berg and Schmidt,
Atlas, 2 ed., v. 1, p. 6.)

The original was not available.

Guibourt, N. J.

1836

La Camomilla commune

Histoire Abregee des Drogues Simples, 3 ed., p. 181.

Describes the flowers of Matricaria Chamomilla and compares
them with Anthemis arvensis, giving distinguishing character-
istics.

Koch, W. D. J.

1838

(Matricaria Chamomilla)

Synopsis florae Germanicae et helveticae, etc., p. 377. (Berg
and Schmidt, Atlas, 2 ed., v. 1, p. 6.)

The original was not available.

Bohn, W.

1839

Kamille (*Matricaria chamomilla*)

Die Heilwerte Heimischer Pflanzen, p. 51. (Pharm. Zentralh., 65, p. 146.)

Describes the plant and the flowers and gives the habitat and uses.

Geiger, P. L.

1839

(Matricaria Chamomilla)

Pharmaceutisch Botanik, p.--. (Tschirch, Handbuch der Pharm., 1 ed., v. 2, p. 978.)

The original was not available.

Boissur, E.

1843

(Matricaria Chamomilla)

Flora orientale, v. 3, p. 323. (Berg and Schmidt, Atlas, 2 ed., v. 1, p. 6.)

The original was not available.

Wood, G. B. and Bache, F.

1843

Matricaria. U. S. Secondary.

U. S. Dispens., 5 ed., p. 454; *ibid.*, 6 ed., p. 454; *ibid.*, 7 ed., p. 454; *ibid.*, 8 ed., p. 454; *ibid.*, 9 ed., p. 472; *ibid.*, 10 ed., p. 472; *ibid.*, 11 ed., p. 494; *ibid.*, 12 ed., p. 542; 13 ed., p. 556; *ibid.*, 14 ed., p. 581; *ibid.*, 15 ed., p. 934; *ibid.*, 16 ed., p. 968; *ibid.*, 17 ed., p. 861; *ibid.*, 19 ed., p. 772; *ibid.*, 20 ed., p. 688; *ibid.*, 21 ed., p. 686. (Bentley and Trimen, Medicinal Plants, v. 3, p. 155 (refers to 13 ed.).)

Describes the plant yielding the drug, describes the drug, and gives its properties and uses.

Borntrager, H.

1844

Notiz uber das Chamillenol

Ann. d. Chem. u. Pharm., 49, p. 243. (Meyer, Drogenkunde, p. 299.)

Describes the volatile oil of *Matricaria Chamomilla*, and gives the results of experiments made with it.

Ledebour, K. F.

1846

(Matricaria)

Flora Rossica, etc., v. 2, p. 545. (Berg and Schmidt, Atlas, 2 ed., v. 1, p. 6.)

The original was not available.

Griffith, R. E.

1847

Asteraceae

Medical Botany, P. 387.

Gives *Matricaria Chamomilla* as a substitute for the common 'Chamomile', from *Anthemis nobilis*.

Wolff, --

1847

(Matricaria)

Aschenanalysen, p.---. (Tschirch, Handbuch der Pharm., 1 ed., v. 2, p. 985.)

The original was not available.

Carthevser, F. 1849

Herba et Flores Matricariae

Fundamenta Materiae Medicae, pt. 2, p. 99.

Describes the flowers and the herb, giving odor and taste, lists a number of preparations and gives their uses and medicinal properties.

Matricaria. Mutterkraut.

Grundriss der Pharmacognosie, p. 211.

Grenier, C., and Godron, D. A. 1852

Matricaria Chamomilla L.

Flore de France, v. 2, p. 148. (Berg and Schmiat, Atlas, 2 ed., v. 1, p. 6.)

Describes the plant and the flowers and gives its distribution in France, with several references.

Matricaria Chamomilla

Handboek voor Droogisten en Apothekers Leerlingen, p. 165.

Gives several common names, describes the plant, gives its

Schleiden, M. J. 1852

Matricaria Chamomilla, L.

Handbuch der Medicinisch-pharmaceutischen Botanik, p. 368.

Describes the plant and the flowers, and gives the time of flowering.

(De la camomille romaine a haute dose dans les nevralgies faciales)

Bull. de therap., --, p.-- (Bull. Sci. Pharmaco., 31, p. 638)

Hayne, F. G. 1853

Matricaria Chamomilla

Darstellung und Beschreibung der Arzneigewaechse, v. 1, p. 3. (Tschirch, Handbuch der Pharm., 1 ed., v. 2, p. 978; Berg and Schmidt, Atlas, 2 ed., p. 6; Pabst and Kohler, Medizinalpfl., v. 2, p. 654; Bentley and Trimen, Medicinal Plants, v. 3, p. 155; Nees v. Esenbeck, Plantae Medicinales, v. 2, p. 227; Kunth, Anleitung zur Kenntniss der offizinellen Gewachse, p. 266.)

Gives scientific synonyms with references, common names,

geographical distribution; describes various parts; gives a number of allied flowers, and the constituents, uses, and a full-page colored illustration with explanation.

Wiggers, A.

1853

Matricaria. Mutterkraut.

Grundriss der Pharmacognosie, p. 211.

Gives the habitat, common names, description of the plant, quantitative constituents, and substitutes.

Campagne, P. J.

1854

Matricaria Chamomilla

Handboek voor Droogisten en Apothekers Leerlingen, p. 488.

Gives several common names, describes the plant, gives its habitat, and compares the flowers with those of related plants.

Lecointe, --

1854

(De la camomilla romaine a haute dose dans les nevralgies faciales)

Bull. de therap., --, p.--. (Bull. Sci. Pharmacol., 31, p. 638.)

The original was not available.

Brown, H. T.

1855

Emmenagogue properties of Chamomile flowers

Am. Jour. Med. Sci., v. 30, p. 268. (Bull. Sci. Pharmacol., 31, p. 638.)

Discusses the use of Chamomile flowers as an emmenagogue.

Berg, O.

1857

Flores Chamomillae Vulgaris

Handbuch der Pharmazeutischen Botanik, 2 ed., p. 295; Pharmakognosie des Pflanzen, 4 ed., p. 328; *ibid.*, 5 ed., p. 313.

Gives the botanical origin, habitat, description of the flowers and the plant, substitutes, and quantitative constituents.

Schleiden, M. J.

1857

Flores matricariae

Handbuch der Botanischen Pharmacognosie, p. 330.

Gives common names, description of the plant and flowers, and distinguishing characteristics from related plants, with several references.

Lessing, M. B.

1859

Chamomilla vulgaris

Materia Medica, p. 164.

Gives the parts official, classification, constituents, preparations, properties, uses, and substitutes of Matricaria.

Schenck, --

1859

(Ueber das persische Insektenpulver)

Wurz. Wochenschrift, May, p.---. (Canstatt's Jahresbericht, n. s. 5, p. 27; Am. Jour. Pharm., 91, p. 96.)

(Gives directions for cultivation of the plants producing Persian insect powder and states that because of the odor, the flowers of German Chamomile possess similar insecticide properties.)

Bentley, R.

1860

Note on the Roman Chamomile (*Anthemis Nobilis*)

Pharm. Jour., 19, p. 447. (Bentley and Trimen, Medicinal Plants, v. 3, p. 155.)

Differentiates between the flowers of *Matricaria Chamomilla*, Linne, *Anthemis nobilis* Linne, and *Matricaria Parthenium* Linne.

Gieseler, --

1860

Pyrethrum carneum and *roseum*

Canstatt's Jayresbericht, 20, p. 30. (Proc. Am. Pharm. Assoc., 10, p. 112; Am. Jour. Pharm., 91, p. 97.)

Heads of *Matricaria Chamomilla* exert a similar effect on insects as *pyrethrum*, *anthemis*, and *achillea*.

Gmelin, L.

1860

Oil of Wild Chamomile

Handbook of Chemistry, v. 14, p. 365. (Bentley and Trimen, Medicinal Plants, v. 3, p. 155.)

Gives the bibliography, synonym, source of the oil, methods of preparation, yield, properties, and results of decomposition.

Bizio, G.

1861

Sopra l'olio della camomilla (M. Chamomilla)

Berichte d. Wein. Acad., 43, pt. 2, p. 292. (Jour. de Pharm. et de Chim., 42, p. 550; Am. Jour. Pharm., 36, p. 109; Proc. Am. Pharm. Assoc., 10, p. 112; Repertoire de Chimie Pure, v. 3, p. 457; Pharm. Jour., 21, p. 429; Wood and Bache, U. S. Dispens., 12 ed., p. 542; *ibid.*, 13 ed., p. 556; *ibid.*, 14 ed., p. 582; *ibid.*, 15 ed., p. 935; *ibid.*, 16 ed., p. 968; *ibid.*, 17 ed., p. 862; *ibid.*, 19 ed., p. 772; *ibid.*, 20 ed., p. 689; Bentley and Trimen, Medicinal Plants, v. 3, p. 155; Meyer, Drogenkunde, p. 299.)

Gives the composition and the physical and chemical properties of the oil of *Matricaria Chamomilla*.

Willkomm, M., and Lange, J.

1861 - 1880

(Matricaria Chamomilla)

Prodromus Flora Hispanica, v. 2, p. 92. (Berg and Schmidt, Atlas, 2 ed., v. 1, p. 6.)

The original was not available.

Heldreich, T. V.

1862

(Matricaria Chamomilla)

Die Nutzpflanzen Griechenlands, p. 26. (Tschirch, Handbuch der Pharm., 1 ed., v. 2, p. 978; Fluckiger, Pharmacognosie des Pflanzenreiches, 3 ed., p. 832.)

The original was not available.

Henkel, J. B.

1862

Matricaria Chamomilla Lin.

Medizinisch-pharmazeutische Botanik nebst Atlas, p. 127.

Describes the plant and gives the part official, constituents, and uses.

Maier, J. 1862

Oleum Chamomillae vulgaris, sive Oleum Chamomillae aethereum s. destillatum.

Die Aetherischen Oele, 2 ed., p. 55. (Arch. exp. Path. u. Pharmacol., 123, p. 157.)

Describes the volatile oil of *Matricaria* and gives its constituents.

Schubeler, F. C. 1862

Matricaria Chamomilla L.

Culturpflanzen Norwegens, P. 84.

Gives the habitat of *Matricaria Chamomilla* and its distribution in Norway.

Grohmann, J. V. 1863

(*Matricaria*)

Aberglauben und Gebrauche aus Bohmen u. Mahren, p. 100. (Marzell, Unsere Heilpflanzen, p. 212.)

The original was not available.

Piesse, S.

1863

Memoires Presentes

Comptes Rendus de L'Academie des Sciences, 57, p. 1016.
(Jour. f. prakt. Chem., 92, p. 320; Meyer, Drogenkunde, p. 299.)

Gives the results of fractional distillation of the volatile oil of Chamomile.

Wigand, J. W. A.

1863

Flores Chamomillae vulgaris

Lehrbuch der Pharmakognosie, 1 ed., p. 178; *ibid.*, 4 ed., p. 254.

Gives the part official, description of the flowers, their constituents, and substitutes.

Gehe and Company

(1863)

(Flores Chamomillae vulgaris)

Marktberichte, p.--; Zeit. Oest. Apoth. Ver., 1, p. 410.
(LaWall and Wood, U. S. Dispens., 20 ed., p. 689; *ibid.*, 21 ed., p. 686.)

(Because of the failure of the crop of German Chamomile, the price has risen.)

Syme, J. F. B. (Now Biswell)

1863 - 1872

(Matricaria Chamomilla)

English Botany, 3 ed. of Smith's English Botany, v. 5, p. 719.
Berg and Schmidt, Atlas, 2 ed., v. 1, p. 6; Bentley and Trimen, Medicinal Plants, v. 3, p. 155.)

The original was not available.

Gladstone, J. H.

1864

On Essential Oils

Chem. Soc. Jour., n. s. v. 2, p. 1. (Meyer, Drogenkunde, p. 299.)

Discusses the blue volatile oil of *Matricaria Chamomilla* in a treatise on a number of volatile oils.

King, J. A., and Ruschmann, T.

1864

Anthemis Nobilis

Am. Dispens., 6 ed., p. 112; *ibid.*, 8 ed., p. 113; *ibid.*, 10 ed., p. 113; *ibid.*, 15 ed., p. 113; *ibid.*, 16 ed., p. 113.

Describes German Chamomile in the article on *Anthemis Nobilis*.

Berg, O.

1866

Matricaria L.

Pharmazeutische Botanik, 5 ed., p. 321.

Describes the leaves and flowers of *Matricaria Chamomilla*, and gives several synonyms.

Werner, T.

1867

Acidum anthemicum

Zeitschrift des osterr. Apothekerv., v. 5, p. 320; Jahresber. über die Fortschr. d. Pharmacogn., Pharmazie u. Toxikologie, v. 27, p. 51. (Arch. exp. Path. u. Pharmacol., 144, p. 7; Flückiger, Pharmacognosie des Pflanzenreiches, 3 ed., p. 832; Meyer, Drogenkunde, p. 299.)

Describes his method of preparing anthemic acid from Chamomile and gives its physical and chemical properties and an empirical formula.

Watts, H.

1868

Matricaria Chamomilla

Dict. Chem., 1 ed., v. 3, p. 858. (Bentley and Trimen, Medicinal Plants, v. 3, p. 155.)

Gives a description of the volatile oil obtained from the flowers of *Matricaria Chamomilla*.

Husemann, A., and Husemann, T.

1871

Kamillenol

Die Pflanzenstoffe, 1 ed., v. 1, p. 1145; *ibid.*, 2 ed., v. 2, p. 1532. (Arch. exp. Path. u. Pharmacol., 123, p. 157.)

Gives several synonyms of the oil, its botanical source, physical properties, and constituents, with references.

Kachler, J.

1871

Ueber das blaue Chamillenol

Ber. d. Chem. Ges., 4, p. 36. (Wood and Bache, U. S. Dispens., 17 ed., p. 862; *ibid.*, 19 ed., p. 772; *ibid.*, 20 ed., p. 689; *ibid.*, 21 ed., p. 687; Meyer, Drogenkunde, p. 299.)

Investigates Oil of Chamomile and compares it to other blue volatile oils.

Pollock, A.

1872

(Chamomile)

Botanical Index, pp. 27, 60, and 77.

Lists *Matricaria Chamomilla* as a drug usually kept by druggists.

Fristedt, R. F.

1873

Matricaria Chamomilla

Larobak Organisk Pharmakologi, p. 14.

Gives some of the pharmacopoeias in which the flowers are official, several common names, a brief bibliography, habitat, description of the flowers, constituents, and preparations of *Matricaria Chamomilla* in four pharmacopoeias.

Fluckiger, F. A., and Hanbury, D.

1874

Flores Anthemidis

Pharmacographia, 1 ed., p. 345; *ibid.*, 2 ed., p. 386. (Berg and Schmidt, Atlas, 2 ed., v. 1, p. 6.)

Gives the flower-heads of *Matricaria Chamomilla* as an adulteration and substitute for *Anthemis nobilis*.

Freyberger, H. M.

1874

Flores Chamomillae Vulgaris

Organischen Drogen, p. 46.

Gives the synonym, botanical origin, family, description, chief constituents, habitat, substitutes, and preparations.

Glover, T.

1874

Report of the Entomologist and Curator of the Museum

Rept. U. S. Commissioner Agr., p. 133. (Am. Jour. Pharm., 91, p. 97.)

Chamomile flowers, if pulverized when dried, and perfectly fresh, have a somewhat similar effect on the oriental cockroach as pyrethrum.

Landerer, X.

1874

Der Kamillenreichthum Griechenlands

N. Repert Pharm., 23, p. 374. (Proc. Am. Pharm. Assoc., 23, p. 165.)

Discusses the abundance and collection of chamomile in Greece.

(Robinson, W.)

1874

Herb Cultivation at Mitcham

The Garden, 6, p. 166. (Pharm. Jour., 34, p. 182; Proc. Am. Pharm. Assoc., 23, p. 165.)

Discusses the cultivation of chamomile at Mitcham.

Koehler, H.

1875

(Matricaria Chamomilla)

Handbuch der physiologischen Therapeutik, p.--. (Munch. med. Wochenschr., 73', p. 768.)

The original was not available.

before 1876

(Chamomilla)

Brit. Jour. of Homeop., 6, p. 267. (Allen, Encyclop. Pure Mat. Med., 1 ed., v. 3, p. 89.)

(Gives the general symptoms of 5 physicians who took the extract of Matricaria in doses of from 2 to 24 grains a day.)

Berridge, --

before 1876

(Chamomilla)

N. Am. Jour. of Homeop., n. s., 3, p. 503. (Allen, Encyclop. Pure Mat. Med., 1 ed., v. 3, p. 89.)

(Gives the results of the treatment of a patient with Matricaria Chamomilla.)

Hencke, --

before 1876

(Matricaria Chamomilla)

A. H. Z., 67, p. 89. (Allen, Encyclop. Pure Mat. Med., 1 ed., v. 3, p. 89.)

The original was not available.

Knorre, --

before 1876

(Matricaria Chamomilla)

A. H. Z., 6, p. 34. (Allen, Encyclop. Pure Mat. Med., 1 ed., v. 3, p. 89.)

(Gives symptoms of an infant fed on Chamomile tea, and also of children taking the flowers.)

Schneller, --

before 1876

(Kamille)

Zeit. d. K. K. Gesell. d. Aerzte in Wien, --, p. --; (Brit. Jour. of Homeop., 6, p. 270; Allen, Encyclop. Pure Mat. Med., 1 ed., v. 3, p. 89.)

The original was not available.

Allen, T.

1876

Chamomilla

Encyclopaedia of Pure Materia Medica, 1 ed., v. 3, p. 89.

Gives a long summary of the effects of the tincture of the whole plant, *Matricaria Chamomilla*, when in flower, on the various parts of the body.

Hager, H.

1876

Chamomilla

Handbuch der pharmazeutischen Praxis, 1 ed., v. 1, p. 809.
(Sudd. Apoth. Ztg., 68, p. 287.)

Gives the habitat of the plant, synonyms, and description, with illustrations of the flowers and preparations of *Matricaria Chamomilla*.

(Editor)

1877

The Month

Pharm. Jour., 36, p. 1057

Tells about *Matricaria Chamomilla* now (June) blossoming, and differentiates it from *Anthemis nobilis*.

Fluckiger, F. A.

1877

Das Nordlinger Register

Archiv. der Pharm., 211, p. 104. (Fluckiger, Pharmacognosie des Pflanzenreiches, 3 ed., p. 833.)

Lists Chamomile Flower Water with other aqueous preparations as being used at that time (1480).

(*Matricaria Chamomilla*)

Ztschr. hist. Ver. f. Niedersachs., --, p. 91. (Marzell, Unsere Heilpflanzen, p. 212.)

(In Sollinge, the common people employ bundles of *Matricaria* to keep out witches.)

Henze, R.

1878

(Das Aetherische Senfol)

Zeitschr. Gesammt. Naturwiss., 3, pp. 605-673. (Munch. med. Wochenschr., 73', p. 768.)

(Available abstracts do not give data which show the connection between Chamomile oil and mustard oil as to physiological action.)

Schimmel and Company

1878

(*Matricaria Chamomilla*)

Gutige Mitteilung des Hauses Schimmel and Company, p. --. (Fluckiger, Pharmacognosie des Pflanzenreiches, 3 ed., p. 829.)

The original was not available.

Indebetow, --

1879

(*Matricaria Chamomilla*)

Farm. Tidskr., (20), p. --. (Tschirch, Handbuch der Pharm., 1 ed., v. 2, p. 985.)

The original was not available.

Sayre, L. E.

1879

Matricaria

Conspectus of Organic Materia Medica, p. 142.

Describes the flowers and the plant, distinguishes it from Roman Chamomile, and gives the odor, taste, active constituents, and description of the oil.

Stilli, A., and Maisch, J. M.

1879

Matricaria, U. S. -- German Chamomile

Nat. Dispens., 1 ed., p. 888; *ibid.*, 2 ed., p. 905; *ibid.*, 3 ed., p. 965; *ibid.*, 5 ed., p. 1026.

Describes the plant yielding the drug, and the drug itself, and gives its constituents.

(Wickham, W. H.)

1879

Arnica and Chamomile Flowers

Proc. Am. Pharm. Assoc., 27, p. 558.

In the report of the committee on the drug market, German reports are quoted on the poor crop of chamomile in 1879.

Bentley, R. and Trimen, H.

1880

Matricaria Chamomilla

Medicinal Plants, v. 3, p. 155. (Stille and Maisch, Nat. Dispens., 1 ed., p. 888; *ibid.*, 2 ed., p. 904; *ibid.*, 3 ed., p. 965; *ibid.*, 5 ed., p. 1026; Tschirch, Handbuch der Pharm., 1 ed., v. 2, p. 978; Pabst and Kohler, Medizinalpflanzen, v. 2, p. 654; Berg and Schmidt, Atlas, 2 ed., v. 1, p. 6.)

Describes the plant, the flowers, and the fruit, distinguishes the plant from other species, and gives the habitat, official part, principal constituents, medicinal properties, and uses, with a full-page, colored illustration.

Elliott, C.

1882

(Chamomile in Infantile Diarrhoea)

Practitioner, --, p. --; The Medical Age. Obstetr. Gaz., --, p. --. (Am. Jour. Pharm., 55, p. 576.)

(Discusses the value of Chamomile in infantile diarrhea, attributing its action as due to the presence of volatile oil.)

Luerssen, C.

1882

(Matricaria Chamomilla)

Handbuch der systematischen Botanik, v. 2, p. 1143. (Pabst and Kohler, Medizinalpflanzen, v. 2, p. 654.)

The original was not available.

Wittstein, G. C.

1882

Kamille, gemeine

Handwortesbuch der Pharmakognosie des Pflanzenreichs, p. 373. (Pabst and Kohler, Medizinalpflanzen, v. 2, p. 654.)

Describes the plant and the flower, constituents, adulterants, history, and derivation of the name.

Campbell, M., and Crawford, J.

1883

German Chamomile

Arrangement of Animal and Vegetable Drugs, p. 5.

Gives the official name, botanical origin, part used, medicinal properties, dose, and habitat of Matricaria.

- Edes, R. 1883
 Matricaria
 Thera. Handb. U. S. P., p. 194.
 Gives foreign synonyms, dose, and use of Matricaria.
-
- Flint, J. M. 1883
 Matricaria Chamomilla
 Classification of the Materia Medica Collection, p. 462.
 Lists Matricaria Chamomilla as a drug in the collection
 of the U. S. National Museum, May 1, 1883.
-
- Merrell, A. 1883
 Matricaria Chamomilla
 Digest of Materia Medica and Pharmacy, p. 306.
 Gives the part official, constituents, preparations, and
 uses of Matricaria.
-
- Fluckiger, F. A. 1884
 Flores Chamomillae -- Camille
 Grundriss Pharmakognosie, p. 228.
 Gives the habitat, description of the flowers, constit-
 uents, and history.
-
- Hedges, H. T. 1884
 Matricaria, U. S.
 Polyglot Index, p. 76.

Gives the common names of *Matricaria Chamomilla* in English, French, German, Swedish, Norwegian, and Danish.

Oldberg, O., and Wall, O. 1884

Matricaria

Comp. U. S. P., p. 684.

Gives synonyms, description, constituents, tests, uses, and dose of *Matri caria*.

Ahern, W. 1886

A Pharmaco-Philological Medley

Pharm. Rec., 6, p. 171.

Gives the etymology of the word 'Chamomile.'

Eichler, A. W. 1886

Compositae

Syllabus, p. 65.

Lists *Matricaria Chamomilla* with other members of the Compositae.

Fenner, B. 1886

Matricaria

Work. Form., p. 452.

Gives dose and uses of *Matricaria*.

Gray, A. 1886

M. Chamomilla, L.

Synoptical Flora of North Am., 2 ed., v. 1, pt. 2, p. 364.
(Berg and Schmidt, Atlas, 2 ed., v. 1, p. 6.)

Describes the plant, particularly the flowers, and gives its distribution in the U. S.

Kreuz, C. 1886

Matricaria Chamomilla Linne

Pharmakognosie, p. 74.

Gives synonyms, time of flowering, description of the flowers and volatile oil, preparations, and substitutes.

Remington, J. P. 1886

Matricaria

Practical Pharmacy, 1 ed., p. 748; *ibid.*, 2 ed., p. 826;
ibid., 3 ed., p. 900.

Gives the pharmacopoeial definition, constituents, and uses of Chamomile.

(Editor) 1887

Matricaria

Pharm. Rec., 7, p. 372.

Describes the plant and the flower, gives the principal constituents, and gives the uses of the flower-head.

Geissler, E., and Moeller, J.

1887

Chamomilla

Real-Encyclopädie der Gesamten Pharmacie, 1 ed., v. 2, p. 645.
(Sudd. Apoth. Ztg., 68, p. 287.)

Gives a description with illustrations, synonyms, time of collection, odor, uses, and adulterants of *Matricaria Chamomilla*.

(Mason, A. H.)

1887

Flowers, Chamomile, German

Proc. Am. Pharm. Assoc., 35, p. 378.

In the report of the committee on the drug market, the prices of Chamomile flowers in 1886 and 1887 are summarized.

Schimmel and Company

1887

Aeth. Oel-Gehalt einer Anzahl Drogen und Pflanzentheile
Bericht., Oct., p. 45. (Meyer, Drogenkunde, p. 299.)

Gives the plant from which German Chamomile is obtained, and the yield of the volatile oil.

Fluckiger, F. A.

1889

Osterferien im Suden

Archiv der Pharm., 227, p. 1070. (Fluckiger, Pharmacognosie des Pflanzenreiches, 3 ed., p. 832.)

Discusses the growth of *Matricaria Chamomilla* in Italy.

Berg, O. C., and Schmidt, C. F.

1890

(*Matricaria Chamomilla*)

Darst. u. Beschreib. Offizienellen Gewaechse, p. 23^f. (Pabst and Kohler, *Medizinalpflanzen*, v. 2, p. 654; Bentley and Trimen, *Medicinal Plants*, v. 3, p. 155; Berg and Schmidt, *Atlas*, 2 ed., v. 1, p. 6.)

The original was not available.

Hirschsohn, E.

1890

Beobachtungen uber den wirksamen Bestandtheil des Insectenpulvers

Pharm. Zeitschrift fur Russland, 29, p. 213. (Am. Jour. Pharm., 91, p. 97.)

Chamomile powder is inert to roaches.

Muller, C.

1890

Matricaria Chamomilla L.

Medicinalflora, p. 560.

Gives substitutes, description of the plant and flowers, habitat, time of flowering, preparations, constituents, and synonyms.

Pabst, G., and Kohler, F. E.

1890

Matricaria Chamomilla L.

Medizinalpfl., 2 ed., v. 2, p. 653. (Tschirch, *Handbuch der Pharm.*, 1 ed., v. 2, p. 978; Berg and Schmidt, *Atlas*, 2 ed., p. 6.)

Describes parts of the plant and gives its common names, distribution, time of flowering, history, part official, preparations, and uses, with a bibliography and full-page colored illustration.

Fluckiger, F. A.

1891

Flores Chamomillae. -- Kamillen. Chamillen

Pharmacognosie des Pflanzenreiches, 3 ed., p. 829. (Berg and Schmidt, Atlas, 2 ed., v. 1, p. 6.)

Gives the botanical origin of the plant, related species, description of the flower, substitutes, anatomy, constituents, and history, with references.

Meyer, A.

1891

Flores Chamomillae

Drogenkunde, p. 299. (Tschirch, Handbuch der Pharm., 1 ed., v. 2, p. 983; Kraemer, Scientific and Applied Pharmacognosy, 1 ed., p. 777; *ibid.*, 2 ed., p. 669; *ibid.*, 3 ed., p. 788.)

Gives the botanical origin and distribution of the plant, the method of collecting the flowers, their morphology and anatomy, and several figures of the flower head, individual flowers, and flower parts (3 plates).

Steer, --

1891

(Matricaria)

Repert. d. Pharm., 61, p. 85. (Meyer, Drogenkunde, p. 299.)

The original was not available.

Berg, O. C., and Schmidt, C. F.

1893

Matricaria Chamomilla L.

Atlas, 2 ed., v. 1, p. 6. (Tschirch, Handbuch der Pharm., 1 ed., v. 2, p. 978.)

Describes the plant and plant parts, particularly the flowers, and gives a full-page colored illustration and several references.

(*Matricaria Chamomilla*)

Altpreuss. Monatsschr., n. s. 31, p. 462. (Marzell, Unsere Heilpflanzen, p. 212.)

(In West Prussia Chamomile is used as a tea to wet witches.)

Engler, A., and Prantl, K.

1894

Matricaria Chamomilla L.

Die natürlichen Pflanzenfamilie, v. 4, 5 abt., p. 276. (Tschirch, Handbuch der Pharmacognosie, 1 ed., v. 2, p. 978.)

Gives a description of the plant, its habitat, and the habitat of related plants.

Karsten, H.

1895

(*Matricaria*)

Flora, von Deutsche, p. 1094. (Pabst and Kohler, Medicinalpflanzen, v. 2, p. 654.)

The original was not available.

Kohl, F. G.

1895

Matricaria Chamomilla L.

Officinellen Pflanzen, p. 215.

Gives synonyms, substitutes, habitat, time of flowering, description of the plant and the flowers, preparations, constituents, and a full-page colored illustration with explanation.

Maisch, J. M.

1895

Matricaria -- German Chamomile

Manual of Organic Materia Medica, 3 ed., p. 307; *ibid.*, 5 ed., p. 314; *ibid.*, 6 ed., p. 298.

Gives the botanical origin, habitat, description of the flowers, constituents, properties, and dose, with illustrations of the flowers.

Sayre, L. E.

1895

Matricaria -- Matricaria

Manual of Organic Materia Medica and Pharmacognosy, p. 289.

Gives common name, part official, description of the flowers and the plant, habitat, description of the drug, constituents, action, uses, and dose, with illustrations of the plant and the flower.

Hooker, J. D.

1895 - 1897

(Matricaria)

Flora of British India, v. 3, p. 315. (Berg and Schmidt, Atlas, 2 ed., v. 1, p. 6.)

The original was not available.

Hansen, A.

1897

Flores Chamomillae

Drogenkunde, p. 120

Gives common name, botanical origin, time of flowering, habitat, description of the flowers, constituents, and uses.

Schimmel and Company 1897

Chamomile Oil, German

Semi-ann. Report, April, List of Essential Oils, p. 12.
(LaWall and Wood, U. S. Dispens., 19 ed., p. 772; *ibid.*, 20 ed., p. 689; *ibid.*, 21 ed., p. 687.)

Gives paraffin as a constituent of the Oil of *Matricaria* and gives the percentage yield of oil from the drug.

Vogetherr, M. 1897

Zur Diagnose officineller Kompositenoluten und ihrer Verwechslungen

Ber. d. d. pharm. Gesells., 7, p. 45. (Tschirch, Handbuch der Pharm., 1 ed., v. 2, p. 986.)

Gives a number of the characteristics of the flowers of official *Compositae*, and outlines a scheme whereby the flowers may be identified, with 2 pages of plates.

Drogendorff, G. 1898

Matricaria Chamomilla L.

Die Heilpflanzen, etc., p. 677.

Gives common names, habitat, and uses of *Matricaria Chamomilla*, and describes the volatile oil, with references.

(Queeny, J. F.) 1899

Drug Adulteration in the United States

Pharm. Era, 22, p. 634.

Briefly mentions the adulteration of German Chamomile flowers with the Hungarian variety.

Tschirch, A., and Oesterle, O. A.

1900

Flor. Chamomillae vulg.

Anatomischer Atlas der Pharmakognosie, p. 5. (Tschirch, Handbuch der Pharm., 1 ed., v. 2, p. 983.)

Gives a detailed description of the flower heads and individual flowers, both ray and disk, with a full page of sections with explanation.

Wall, O. A.

1900

Matricaria

Meyer Bro. Drugg., 21, p. 301.

Gives the botanical origin, habitat, description, constituents, and uses of Matricaria, with illustrations.

1901

The Commerce of Drugs
Chamomiles

Chem. Drugg. Diary, 33, p. 276. (Am. Drugg., 37, p. 343.)

Discusses the sources of Anthemis nobilis and Matricaria Chamomilla for the London market.

Moeller, J., and Thoms, H.

1904

Flores Chamomillae vulgaris

Real Enzyklopadie der Gesamten Pharmazie, 2 ed., v. 3, p. 478. (Sudd. Apoth. Ztg., 68, p. 287.)

Gives synonyms, habitat, description of the plant and the flowers, time of flowering, constituents, preparations, and substitutes of Matricaria Chamomilla.

Tschirch, A.

1904

Sind die Antheren der Kompositen verwachsen oder verklebt?

Flora, 93, p. 51. (Tschirch, Handbuch der Pharm., 1 ed., v. 2, p. 983.)

Uses *Matricaria Chamomilla* as one of the examples in answering the above question.

(Committee)

1905

(Manzanilla)

Farmacopoea Espanola, VII, p. 411. (Jour. Am. Pharm. Assoc., 8, p. 536.)

(Recognizes the flowers of several species, including *Matricaria Chamomilla*, under the title 'Manzanilla.')

(Editor)

1905

Matricaria chamomilla

Yrbk. Brit. Pharm. Conf., 42, p. 310.

Tells about the cultivation and distribution of *Matricaria Chamomilla* near London.

Gerdtz, --

1905

(Matricaria Chamomilla)

Bau und Entwicklung die Kompositenfrucht Dissertation, p. ---.
(Tschirch, Handbuch der Pharm., 1 ed., v. 2, p. 984.)

The original was not available.

Jackson, J. R.

1905

Early Summer Plants in Devon

Pharm. Jour., 75, p. 222.

Mentions the beauty of *Matricaria Chamomilla* and also its substitution for *Anthemis Novilis*.

Nelson, B. E.

1905

On Analytical Scheme for Microscopical Examination of Powdered Drugs

Merck's Rep., 14, p. 135.

Gives a brief description of the flower heads of *Matricaria Chamomilla* and of the tissues seen under the microscope, and lists its constituents.

Schmitthenner, F.

1905

Flores Chamomillae -- Kamillen

Pharmakognosie des Pflanzen- und Tierreiches, p. 62.

Gives the botanical origin, description, constituents, and substitutes of *Matricaria*.

Tschirch, A.

1905

Über Randbluten mit Pappus in der Kamillendroge

Schweiz. Wochenschr., 43, p. 69. (Tschirch, Handbuch der Pharm., 1 ed., v. 2, p. 981; Pharm. Jour., 74, p. 270.)

Distinguishes between *Matricaria Chamomilla* and other members of the Compositae, but finds considerable variation in *Matricaria Chamomilla* itself, as illustrated by 4 figures.

Moeller, J., and Thoms, H.

1906

Kamillenol

Real-Enzyklopadie der Gesamten Pharmazie, 2 ed., v. 7, p. 333.
(Sudd. Apoth. Ztg., 68, p. 287.)

Gives synonyms and constituents of the volatile oil of
Matricaria Chamomilla, with references.

Stokvis, B. J.

1906

Flores Chamomillae en Flores Chamomillae Vulgaris

Voordrackten over Geneesmiddellen, v. 2, p. 21.

Gives the constituents of the flowers and uses of various
preparations of them.

Hovorka, O., and Kronfeld, A.

1908

(*Matricaria Chamomilla*)

Vergleichende Volksmedizin, p. --. (Munch. med. Wochenschrift,
73', p. 767.)

(The therapeutical effects of Chamomile are discussed.)

Schullerus, P.

1908

(*Matricaria Chamomilla*)

Pflanzen im Glaube und Brauele d. Siebenbunger Sachsen, p. 1.
(Marzell, Unsere Heilpflanzen, p. 212.)

The original was not available.

Jama, A. 1909

Bemerkung uber das atherische oel der Kamille

Apoth. Ztg., 24, p. 585. (Schimmel's Semi Ann. Rep., Oct., 1909, p. 37; Proc. Am. Pharm. Assoc., 58, p. 301.)

Describes the oils obtained from the flowers and from the calices.

(Note. Proc. Am. Pharm. Assoc., 58, p. 301, gives two summaries, crediting one to A. James, the second to A. Jama. The first summary was taken from Schimmel's Semi Ann. Rep.)

Karsten, G., and Oltmanns, F. 1909

Flores Chamomillae

Lehrbuch der Pharmakognosie, 2 ed., p. 220; *ibid.*, 3 ed., p. 238; (Tschirch, Handbuch der Pharm., 1 ed., v. 2, p. 984.)

Gives the habitat, description of the flowers, microscopical examination, and products of distillation, with illustrations of the flower head and microscopical sections.

Klobb, T. 1910

Les alcools cholesteriques d'origine vegetale ou phytosterols

Bull. des Sc. pharmacologiques, 17, p. 273. (Annal. de chim. et de phys., s. 8, v. 24, p. 410.)

Mentions the phytosterol of *Matricaria Chamomilla* in discussing the chemistry of phytosterols.

Klobb, T., Gamier, J., and Ehrwein, R. 1910

Sur quelques hydrocarbures d'origine vegetale

Bull. soc. chim., s. 4, v. 7, p. 940. (Tschirch, Handbuch der Pharm., 1 ed., v. 2, p. 985; Annal de chim. et de phys., s. 8, v. 24, p. 411; Jour. Chem. Soc., Trans., v. 105, p. 2281.)

Gives the results of experiments on an alcoholic extract of the flowers of *Matricaria Chamomilla*.

--- 17. (The Arch, Handbuch
der Pharm. 7, 2, p. 282.)

Anselmino, O., and Gilg, E. 1911

Flores Chamomillae -- Kamillen

Kommentar zum Deutschen Arzneibuch, 5 Ausgabe, 1910, 1, p. 539; ibid., 6 Ausgabe, 1926, 1, p. 611. (Sudd. Apoth. Ztg., 68, p. 287.)

Describes the flowers of *Matricaria Chamomilla* and gives the history, botanical origin, constituents, adulterants, collection, drying, and uses, with 2 illustrations of various parts of the flowers.

Dieterich-Helfenberg, K. 1911

Essenz Drogen mit ather. Oelen und Riechstoffen

Die Wichtigsten medizinischen Drogen, p. 32.

Discusses *Matricaria Chamomilla* together with other plants yielding a volatile oil.

Klobb, T. 1911

Caracteres de Quelques Phytosterols Gauches

Annal. de chim. et de phys., s. 8, v. 24, p. 410; Pharm. Zentralh., 54, p. 360. (Yrbk. Brit. Pharm. Conf., 50, p. 228; ibid., 52, p. 187; Jour. Chem. Soc., Trans., v. 105, p. 2281.)

Gives the physical and chemical properties of phytosterols obtained from *Matricaria Chamomilla* by extraction of the flowers with petroleum ether.

Koch, L.

1911 - 1914

(Matricaria)

Pharmakognostischer Atlas, v. 3, p. 17. (Tschirch, Handbuch der Pharm., 1 ed., v. 2, p. 984.)

The original was not available.

Greenawalt, W. G.

1912

Some Medicinal Plants of 1794

Merck's Rep., 21, p. 67.

Mentions preparations made from the flowers of *Matricaria Chamomilla* by apothecaries in 1794.

Heraile, J.

1912

Fleurs de Camomille Romaine

Traite de Matiere Medicale Pharmacographie, 2 ed., p. 345;
ibid., 3 ed., p. 345.

Compared the flowers of *Matricaria Chamomilla* with those of *Anthemis nobilis*.

London Correspondent

1912

The London Drug Market - III
Chamomiles

Am. Drugg., 60, p. 330.

Discusses the source of the chamomiles on the London market.

Mittlacher, W.

1912

Matricaria Chamomilla L.

Die Offizinellen Pflanzen und Drogen, p. 96.

Gives the habitat, pharmacopoeas in which it is official, and constituents.

Meyer, T.

1913

Flores Chamomillae Flowers of *Matricaria Chamomilla*

Pharm. Zeit., 58, p. 790. (Wood and LaWall, U. S. Dispens., 20 ed., p. 689; *ibid.*, 21 ed., p. 686.)

Comments on the reasons for the high price of German Chamomile, and its effect on the supply and demand.

Gives a detailed account of the constituents found in the flowers of *Matricaria*.

Pammel, L. H.

1913

(Matricaria Chamomilla)

Weed Flora of Iowa, Iowa Geolog. Surv., Bull. no. 4, Rev. Ed., p. --. (Kraemer, Scientific and Applied Pharmacognosy, 3 ed., p. 788.)

Could not locate any reference to *Matricaria Chamomilla*.

Gives the proposed monograph for *Matricaria* of the U. S. P. IX.

Berendes, I.

1914

Kamille

Paulos' von Aegina, p. 733.

Gives *Matricaria Chamomilla* as a synonym for *Anthemis*, according to Dioscorides.

Lists *Matricaria* as a member of the Compositae official in the U. S. P. IX.

(Editor)

1914

Matricaria

Pharm. Era, 47, p. 262.

Gives a condensed description of *Matricaria* as proposed by the Committee of Revision for the U. S. P. IX.

Power, F. B., and Browning, H.

1914

Constituents of the Flowers of *Matricaria Chamomilla*

Jour. Chem. Soc., Trans., 105, p. 2280. (Chem. News, 110, p. 291; Yrbk. Am. Pharm. Assoc., 3, p. 206; Proc. Chem. Soc., 36., 36, p. 237; Yrbk. Pharm. Trans. Brit. Pharm. Conf., 52, p. 187; Chem. Drugg., 1914, p. 376; Pharm. Era, 47, p. 510; ibid., 48, p. 116; ~~Chem~~ Zentralblatt., --, p. --; Wehmer, Die Pflanzenstoffe, 2 ed., v. 2, p. 1242.)

Gives a detailed account of the constituents found in the flowers of *Matricaria*.

(Remington, J. P.)

1914

Matricaria

Jour. Am. Pharm. Assoc., 3, p. 390

Gives the proposed monograph for *Matricaria* of the U. S. P. IX.

The original was not available.

Youngken H. W.

1914

Compositae

Pharmaceutical Botany, p. 90

Lists *Matricaria* as a member of the Compositae official in the U. S. P. IX.

(Editor)

1915

Matricaria (German Chamomile)

N. A. R. D. Jour., 21, p. 607.

Gives the botanical source, synonyms, cultivation in the United States, and current price of the flowers of *Matricaria Chamomilla*.

Kraemer, H.

1915

Matricaria - Wild or German Chamomile

Scientific and Applied Pharmacognosy, 1 ed., p. 775; *ibid.*, 2 ed., p. 669; *ibid.*, 3 ed., p. 784.

Gives the habitat, description of the flowers, microscopical structure, constituents, adulterants, and several references. The third edition also gives the derivation, use, and dose, with an illustration of a single flowering plant and several diagrams of the flower.

Kraemer, H.

before 1915

(*Matricaria Chamomilla*)

Applied and Economic Botany, p. 396. (Kraemer, Scientific and Applied Pharmacognosy, 1 ed., p. 777; *ibid.*, 2 ed., p. 669; *ibid.*, 3 ed., p. 788.)

The original was not available.

Freudenthal, --

before 1917

(*Matricaria*)

Scher. Ann., v. 2, p. 25. (Gmelin, Handb., v. 2, p. 1292; Tschirch, Handbuch der Pharm., 1 ed., v. 2, p. 985.)

The original was not available.

Blair, T. S.

1917

Chamomilla

Botanic Drugs, p. 122.

Gives the numbers of pharmacopoeas in which the drug is official, common names, dose, constituents, pharmacology, and therapeutics.

Tschirch, A.

1917

Anthodium Chamomillae Vulgaris und Oleum Chamomillae

Handbuch der Pharmakognosie, 1 ed., v. 2, p. 977. (Pharm. Zentralh., 65, p. 146; Fluckiger, Pharmacognosie des Pflanzenreiches, 3 ed., p. 829.)

Gives the botanical origin, synonyms, etymology, description of the plant, pathology, cultivation, description of the drug, anatomy, chemistry, adulterants, and uses of *Matricaria Chamomilla*, with illustrations and a bibliography.

Wall, O. A.

1917

Matricaria

Notes on Pharmacognosy, 3 ed., p. 421; Handbook of Pharmacognosy, 4 ed., p. 390; *ibid.*, 5 ed., p. 83.

Gives the common names, part used, habitat, description of the flowers, constituents, uses, substitutes, and an illustration of the flower head with explanation.

1918

(Matricaria Chamomilla)

Service and Regulatory Announcements, Chemistry, p. 22, item 257. (Jour. Am. Pharm. Assoc., 8, p. 536; *ibid.*, 10, p. 937.)

The original was not available.

Ballard, C. W.

1918

Wild Anthemis - a Possible Matricaria Adulterant

Jour. Am. Pharm. Assoc., 7, p. 952; Nat. Drugg., 49, p. 154.
 (Yrbk. Am. Pharm. Assoc., 7, p. 223; Jour. Am. Pharm. Assoc.,
 8, p. 536; ibid., 10, p. 937.)

Tabulates the chief differences and similarities in wild Anthemis, cultivated Anthemis, and Matricaria.

Brauer, L.

1918

(Matricaria)

Die Ruhr, p. ---. (Munch. med. Wochenschr., 72, p. 262.)

The original was not available.

Bruntz, L., and Jaloux, M.

1918

Matricaria Chamomilla L.

Plantae Officinales, p. 219.

Lists the pharmacopoeas in which the plant, the flowers, and the oil are official.

(Editor)

1918

Chamomile Adulterant

Pharm. Era, 51, p. 132.

Anthemis Cotula has been found substituted in amounts up to 25% in importations of Matricaria Chamomilla.

Ross, H.

1918

(Matricaria Chamomilla)

Unsere inchtige interwachsende Heil-, Gewurg-, und Teepflanzen,
 --, p. --- (Pharm. Zentralh., 65, p. 146.)

The original was not available.

1919

Miscellaneous Inquiries
 Chamomiles

Chem. and Drugg., 91, p. 56.

Discusses the confusion arising from different chamomiles
 being official in the British Pharmacopoeia and the United
 States Pharmacopoeia.

Alsberg, C. L., Viehovever, A., and Ewing, C. O.

1919

Some Effects of the War upon Crude Drug Importations

Jour. Am. Pharm. Assoc., 8, p. 469. (Ibid., 8, p. 536; *ibid.*,
 10, p. 937.)

Because of the war, *Matricaria Chamomilla* Linne has been
 adulterated with *Anthemis cotula* Linne and *Anthemis nobilis*
 Linne.

Clevenger, J. F., and Ewing, C. O.

1919

Santolina Chamaecyparissus L., and Adulterant of *Matricaria*
Chamomilla L.

Jour. Am. Pharm. Assoc., 8, p. 536. (Ibid., 10, p. 937; Yrbk.
 Am. Pharm. Assoc., 8, p. 266; Yrbk. Brit. Pharm. Conf., 57,
 p. 196.)

Differentiates physically between the flowers of *Matricaria*
Chamomilla and *Santolina chamaecyparissus*.

Holmes, E. M.

1919

Notes on Single Chamomiles

Pharm. Jour., 103, p. 510; Amer. Jour. Pharm., 92, p. 117.

Discusses the substitution of *Matricaria Chamomilla* for single chamomiles (*Anthemis nobilis*) and compares the two plants.

Roark, R. C.

1919

Plants used as Insecticides
Matricaria Chamomilla L.

Am. Jour. Pharm., 91, p. 96.

Gives the synonyms and habitat of *Matricaria Chamomilla* and also its action on various insects.

Schulz, H.

1919

(*Matricaria Chamomilla*)

Vorlesung über Wirkung und Anwendung deutscher Arzneipflanzen, p. --. (Arch. exp. Path. u. Pharmacol., 123, p. 157; Munch. med. Wochenschr., 73', p. 767; Monatsch. Kinderheil., 30, p. 232; Pharm. Zentralh., 65, p. 146.)

The original was not available.

Walter, A.

1919

Einsammeln von *Matricaria discoidea*

Pharm. Ztg., 64, p. 304. Pharm. Jour., 103, p. 217; Yrbk. Am. Pharm. Assoc., 8, p. 245; Drugg. Circ., 64, p. 22; Jour. Am. Pharm. Assoc., 10, p. 937; Nat. Drugg., 50, p. 399.)

Suggests *Matricaria discoidea* as a substitute for *M. Chamomilla* and compares the two.

Blair, H. W.

1920

Scotch Chamomiles

Pharm. Jour., 104, p. 8.

Discusses the history in Scotland of the various kinds of chamomile, including Scotch, English, Roman, German, French, and Belgian.

Campain, M.

1920

Camomilla Allemande

Guide de L'Herboriste Droguiste, p. 59.

Gives the properties of the flowers of *Matricaria Chamomilla*.

The original was not available.

Karsten, G., and Benecke, W.

1920

(Matricaria Chamomilla)

Lehrbuch der Pharmacognosie, 3 ed., p. 235. (Sudd. Apoth. Ztg., 68, p. 287.)

The original was not available.

Rolet, A.

1920

Les Camomilles

Schweiz. Apoth. Zeit., 58, p. 373. (Jour. Am. Pharm. Assoc., 10, p. 937.)

Lists *Matricaria Chamomilla* among four chamomiles, giving a brief description of the plant and the flowers and their use.

Sabalitschka, T.

1920

(Het Inzamelen Van Kamillen)

Pilz- und Krauterfreund, 3, p. 259. (Pharm. Weekbl., 57, p. 1086; Jour. Am. Pharm. Assoc., 10, p. 937; Handbuch der praktischen und wissenschaftlichen Pharmazie, 5, p. 230; Sudd. Apoth. Ztg., 68, p. 287.)

The original was not available.

Feilbach, --

1921

(Uber Kamillosan, eine neue dosierbare form der Kamille)

Westdeutsche Arzte-Zeitung, p. 26. (Arch. exp. Path. u. Pharmacol., 123, p. 157; Munch. med. Wochenschr., 72, p. 262; ibid., 73', p. 767.)

The original was not available.

Schinkel, --

1921

(Kamille)

Allgem. deutsche Hebammenzeitung, p. 317. (Arch. exp. Path. u. Pharmacol., 123, p. 157; Munch. med. Wochenschr., 73', p. 767.)

The original was not available.

Schmidt, E. A.

1921

(Matricaria Chamomilla)

Klinik der Darmkrankheiten, 2 ed., p. ---. (Munch. med. Wochenschr., 72, p. 262.)

The original was not available.

The original was not available.

Viehoever, A., and Clevenger, J. F.

1921

The Substitution of Convallaria Flowers for Chamomile

Jour. Am. Pharm. Assoc., 10, p. 937. (Yrbk. Am. Pharm. Assoc., 10, p. 224; Yrbk. Brit. Pharm. Conf., 59, p. 206.)

Discusses the substitution of Convallaria flowers for chamomile. The two flowers are easily distinguished from each other.

Wiechowski, --

1921

(Kamille)

Ber. d. pharmakol. Gesells., Freiburg, --, p. --. (Arch. exp. Path. u. Pharmacol., 144, p. 7.)

The original was not available.

Discusses the extract of chamomile, "Kamillolose," giving the effects of the treatment --- several persons.

Edman, G.

1922

(Adulteration of Matricaria)

Svensk. Farm. Tidskr., 26, p. 229. (Yrbk. Am. Pharm. Assoc., 11, p. 111; Wood and LaWall, U. S. Dispens., 21 ed., p. 687.)

(Gives adulterants of German Chamomile and describes the findings of the author's microscopic examinations of the powdered flowers of 6 Artemisia species.)

Suggests the use of Matricaria inositolis as a substitute for Matricaria officinalis because of the accuracy of their chemical, physical and chemical differences --- and similar uses.

Feilbach, --

1922

(Uber Saldenbehandlung bei Cervixkatarren und Pseudoerosionen)

Zeitschr. d. Med., --, p. --. (Arch. exp. Path. u. Pharmacol., 123, p. 157; Fortschr. d. M., 1922, Nr. 49/50; Munch. Med. Wochenschr., 72, p. 262; ibid., 73, p. 767.)

The original was not available.

Herstellerin, --

1922

(*Matricaria Chamomilla*)

Chemisch-pharmazeutische Werke Bad Homburg A. G., p. --.
(Munch. Med. Wochenschr., 69, p. 49; *ibid.*, 72, p. 261;
ibid., 72, p. 853.)

The original was not available.

Kowalzig, H.

1922

Erfahrungen mit "Kamillosan", einer neuen Anwendungsart
der Kamille

Munch. med. Wochenschr., 69, p. 49. (Ibid., 72, p. 262; *ibid.*,
73', p. 767; Arch. exp. Path. u. Pharmacol., 123, p. 157;
Monatsch. Kinderheil., 30, p. 225.)

Discusses the extract of chamomile, "Kamillosan," giving
the effects of the treatment on several persons.

Kroeber, L.

1922

(Über die strahlenlose Kamille)

Sudd. Apoth. Ztg., 62, p. 320. (Pharm. Zentralh., 63, p.
513; *ibid.*, 65, p. 146; Yrbk. Am. Pharm. Assoc., 11, p. 114.)

(Suggests the collection of *Matricaria discoidea* or *M.*
suaveolens because of the scarcity of true chamomile. Gives
physical and chemical differentiation, and similar uses.)

Löffler, --

1922

(Therapeutische Verwendung von Kamillenextrakt)

Internat. ärztlicher Zentralanzeiger, --, p. --. (Arch. exp.
Path. u. Pharmacol., 123, p. 157; Munch. med. Wochenschr.,
72, p. 262.)

The original was not available.

Marzell, H.

1922

Kamille (*Matricaria Chamomilla*)

Unsere Heilpflanzen, p. 212. (Pharm. Zentralh., '65, p. 146;
Munch. med. Wochenschr., '73', p. 767.)

Discusses the history of Chamomile with references, quoting from some, and giving an illustration of the fifteenth century.

Strauss, H.

1922

(*Matricaria Chamomilla*)

Erkrankungen des Rektum und Sigmoideum, p. --. (Munch. med.
Wochenschr., 72, p. 262.)

The original was not available.

1923

Legal Queries

Chem. and Drugg., 99, p. 461.

"Chamomile flowers" in England refer to *Anthemis nobilis*
and not to *Matricaria Chamomilla*.

Herz, O.

1923

Zur Behandlung des Wundseins und der Plaques erosives
beim Saugling

Therapie der Gegenwart, N. S. 25, p. 468. (Arch. exp. Path.
u. Pharmacol., 123, p. 157; Munch. med. Wochenschr., 72,
p. 262; *ibid.*, '73', p. 767.)

Discusses the advantages of the new chamomile preparation
"Kamillosan."

Holmes, E. M.

1923

Matricaria Chamomilla and M. Inodora

Pharm. Jour., 111, p. 305. (Yrbk. Am. Pharm. Assoc., 12, p. 121.)

Differentiates between these two species of Matricaria.

Langenhan, H. A.

1923

Matricaria

Century of the U. S. Pharmacopoeia 1820-1920, University of Wisconsin Bulletin, p. 87.

Gives the titles and synonyms of Chamomile in the U. S. P., 1820-1920.

Leclerc, H.

1923

(Note sur l'action antalgique de la camomille)

Bull. de la Soc. de Therap., --, p. --. (Bull. Sci. Pharmacol., 31, p. 639.)

The original was not available.

Oehrlein, --

1923

(Kamillosan)

Zahnartztl Rundschau, p. 333. (Arch. exp. Path. u. Pharmacol., 123, p. 157; Munch. med. Wochenschr., 72, p. 262.)

The original was not available.

Resvoll, T. R.

1923

(Hairs of *Matricaria Chamomilla*)

Norsk. Farm. Tidskr., --, p. --. (Pharm. Ztg., '68, p. 868;
Yrbk. Am. Pharm. Assoc., 12, p. 121.)

(Describes the hairs of *Matricaria*.)

Reutter, L.

1923

Anthodium seu Flos et Oleum Chamomillae, Fleur et Essence
De Camomille, de *Matricaria Chamomilla*, L.

Traite de Matiere Medicale, p. 308.

Gives the botanical origin, habitat, description of the
drug, microscopical examination, adulteration, constituents,
uses, preparations, incompatibilities, and history.

Voegele, --

1923

(Uber Kamillosan)

Zahnarztl. Rundschau, --, p. 192. (Arch. exp. Path. u. Pharm-
acol., 123, p. 157; Munch. med. Wochenschr., 72, p. 262.)

The original was not available.

Weinsheimer, K.

1923

Uber Kamillosan-Salbe

Klin. Wochenschr., 2, p. 234. (Arch. exp. Path. u. Pharmacol.,
123, p. 157; Munch. med. Wochenschr., 72, p. 262.)

Discusses the therapeutic value and uses of "Kamillosan-
salbe," Kamillosan salve.

Zweig, W.

1923

(Matricaria)

Lehrbuch der Magen- und Darmkrankheiten, 3 ed., p. ---. (Munch. med. Wochenschr., 72, p. 262.)

The original was not available.

1924

Pharmaceutical Botany

Chem. and Drugg., 100, p. 829.

Article LXI (Compositae- Matricaria) describes the plant and the flower of Matricaria, and gives a general description of the flowers of the Compositae, with illustrations.

Gives the therapeutic history, properties, and uses of Matricaria Chamomilla.

Eck, --

1924

(Die therapeutische Wirkung des Kamille)

Dissertation Heidelberg, 1924. (Arch. exp. Path. u. Pharmacol., 123, p. 157.)

The original was not available. Pharm. Zentralh., 65, p. 146.)

The original was not available.

Kahat, K.

1924

(Matricaria Chamomilla)

Die Phytotherapie, p. ---. (Pharm. Zentralh., 65, p. 146.)

The original was not available.

Zentralh. Rundschau, 1924. (Arch. exp. Path. u. Pharmacol., 123, p. 157. Munch. med. Wochenschr., 72, p. 262.)

The original was not available.

Kroeber, L.

1924

Studienergebnisse einer Reihe von Fluidextrakten aus heimischen Arzneipflanzen

Pharm. Zentralh., 65, p. 143. (Yrbk. Am. Pharm. Assoc., 13, p. 116.)

Gives the process of preparing fluidextract of Chamomile. Also gives the history, etymology, habitat, and constituents of *Matricaria Chamomilla*.

Leclerc, H.

1924

La camomille (*Anthemis nobilis* et *Matricaria Chamomilla*)

Bull. sci. pharmacol., 31, p. 636. (Yrbk. Am. Pharm. Assoc., 13, p. 194.)

Gives the therapeutic history, properties, and uses of *Matricaria Chamomilla*.

Mann, H.

1924

(*Matricaria Chamomilla*)

Die moderne Parfumerie, --, p. --. (Pharm. Zentralh., 65, p. 146.)

The original was not available.

Meis, --

1924

(Kamillen in der Behandlung der Mundschleimhauterkrankungen)

Zahnärztl. Rundschau, p. 496. (Arch. exp. Path. u. Pharmacol., 123, p. 157; Munch. med. Wochenschr., 72, p. 262.)

The original was not available.

Meyer, T.

1924

(Matricaria Chamomilla)

Arzneipflanzenkultur und Arzneipflanzenhandel, p. ---. (Pharm. Zentralh., 65, p. 146.)

The original was not available.

Muller, C.

1924

(Eine einfache radikale chirurgische Therapie der sog. Alveolarpyorrhoe)

Zahnärztl. Rundschau, --, p. 40. (Arch. exp. Path. u. Pharmacol., 123, p. 157; Munch. med. Wochenschr., 72, p. 262.)

The original was not available.

Oehrlein, --

1924

(Matricaria Chamomilla)

Vortrag, Tagung des Zentr. V. d. Zahnärzte, --, p. ---. (Munch. med. Wochenschr., 72, p. 262.)

The original was not available.

Sachs, --

1924

(Behandlung der Alveolarpyorrhoe)

Vortrag, Naturforscherversammlung, p. ---. (Munch. med. Wochenschr., 72, p. 262; Arch. exp. Path. u. Pharmacol., 123, p. 157.)

The original was not available.

Schlickum, R.

1924

Flores Chamomillae. Kamillen.

Pharmakognosie, 3 ed., v. 1, p. 42.

Gives the synonyms, origin, description of the flowers, properties, uses, constituents, preparations, substitutes, and time of collection.

Kamille, R.

--- Über das Substrat der Kamille in der Pharmakognosie

1925

Chamomile

Chem. and Drugg., 102, p. 698.

Mentions the flowers and chief constituent of *Matricaria Chamomilla* in discussing *Anthemis nobilis*.

Arnold, W.

1925

--- Kamillen in der Zahnheilkunde

Eine experimentelle Prüfung der Wirkung des Pfefferminz-, Fenchel-, und Kamillentees auf den Magen Darmkanal

Monatsch. Kinderheil., 30, p. 225. (Drugg. Circ., 71, p. 144; Yrbk. Am. Pharm. Assoc., 16, p. 202; L'union pharm., 4, p. 296.)

Gives the results of experiments with peppermint, fennel, and chamomile teas, with references.

(Für Mund- und Zahnpflege) --- (Maxille)

Bender, J.

1925

--- Arch. exp. Path. u. Pharmacol., 123, p. 157

Aolan bei Ekzem nach Pruritus, besonders nach Pruritus vulvae

Dermatol. Wochenschr., 81, p. 1734. (Arch. exp. Path. u. Pharmacol., 123, p. 157.)

Discusses the emmenagogue properties of "Kamillosansalbe," Kamillosan salve.

(Editor)

1925

Chamomile Flowers

Pharm. Era, 60, p. 344.

Gives the geographical source and the physiological action and uses of German Chamomile.

Ganssle, H.

1925

Über das subaquale Darmbad in der Gynakologie

Munch. med. Wochenschr., 72, p. 852. (Arch. exp. Path. u. Pharmacol., 123, p. 157.)

Mentions the extract of Chamomile, "Kamillosan."

The original was not available.

Kessler, --

1925

(Kamillen in der Zahnheilkunde)

Deutsch. zahnarztl. Wochenschr., --, p. --. (Arch. exp. Path. u. Pharmacol., 123, p. 157.)

The original was not available.

Lang, --

1925

(Zur Mund- und Zahnpflege mit Kamille)

Zahnarztl. Rundschau, --, p. --. (Arch. exp. Path. u. Pharmacol., 123, p. 157.)

The original was not available.

Zahnarztl. Rundschau, --, p. --. (Arch. exp. Path. u. Pharmacol., 123, p. 157.)

The original was not available.

Meyer, H. H., and Gottlieb, R.

1925

Carminativa

Die experimentelle Pharmakologie, 7 ed., p. 256. (Arch. exp. Path. u. Pharmacol., 144, p. 7.)

Mentions the use of chamomile flowers as a carminative for children.

Oehrlein, --

1925

(Kamillen in der zahnärztlichen Praxis)

Dtsch. Monatsschr. f. Zahnheilk., --, p. --. (Arch. exp. Path. u. Pharmacol., 123, p. 157.)

The original was not available.

Reicher, K.

1925

Zur Therapie der akuten und chronischen Dysenterie, Kolitis, Sigmoiditis und Proktitis.

Munch. med. Wochenschr., 72, p. 261. (Ibid., 73', p. 767; Arch. exp. Path. u. Pharmacol., 123, p. 157; Monatsch. Kinderheil., 30, p. 225.)

Discusses Kamillosan in the treatment of the above diseases, with references.

Sachs, --

1925

(Die Technik der Curettage bei Parodontosen)

Zahnärztl. Rundschau, --, p. --. (Arch. exp. Path. u. Pharmacol., 123, p. 157.)

The original was not available.

1926

(*Matricaria Chamomilla*)

Einführung in das Deutsche Arzneibuch, 6 Ausgabe, Sonderdruck aus Heft 718. (Sudd. Apoth. Ztg., 68, p. 287.)

The original was not available.

Arnold, W.

1926

Die Entzündungshemmung durch Kamillentee im Experiment

Munch. Med. Wochenschrift, 73', p. 767. (Sudd. Apoth. Ztg., 68, p. 287.)

Gives the therapeutical effects of Chamomile tea, cataplasma of Chamomile, and infusion of chamomile, with illustrations and references.

Augustin, B.

(1926)

(Chamomile - Collection in Hungary)

Heil. Gewürzpflanzen, 10, p. 87. (Pharm. Zeit., 72, p. 1093; Yrbk. Am. Pharm. Assoc., 16, p. 231; Sudd. Apoth. Ztg., 68, p. 287.)

(Discusses the collection of chamomile in Hungary, where a spring and a fall crop are sometimes both collected.)

Boas, I.

1926

Über Colitis membranacea und Colica mucosa

Therapie der Gegenwart, N. S. 28, p. 4. (Arch. exp. Path. u. Pharmacol., 123, p. 157.)

Mentions the use of chamomile tea and Kamilloosan for colic.

Caesar and Loretz

1926

(Matricaria Chamomilla)

Jahresbericht, 1926, p. 87. (Sudd. Apoth. Ztg., 68, p. 287.)

(They question the reported yield of volatile oil as required by the D. A. B. 6, and comment on the test.)

Hoffmann, --

1926

(Kamillen liquidum bei Dickdarmerkrankungen)

Fortschr. d. Therapie, --, p. 156. (Arch. exp. Path. u. Pharmacol., 123, p. 157.)

The original was not available.

Karpati, E.

1926

(Beitrage zur Gewinnung des Kamillenols)

Die Riechstoffindustrie, --, p. --. (Sudd. Apoth. Ztg., 68, p. 287.)

The original was not available.

Krecke, A.

1926

Zur Behandlung akuter chirurgischer Infektionen und Eiterungen

Munch. med. Wochenschrift, 73', p. 393. (Ibid., 73', p. 680; Sudd. Apoth. Ztg., 68, p. 287.)

Discusses the treatment of acute surgical infections with "kamillenaufgusz."

Krecke, A.

1926

Was für einen Vorzug hat bei Umschlagen der Kamillenaufgusz vor Umschlagen mit gewöhnlichem Wasser? Ist der Kamillenaufgusz eine "physiologischer" Lösung als Wasser?

Munchn. med. Wochenschrift, 73', p. 680. (Sudd. Apoth. Ztg., 68, p. 287.)

The article answers the above questions.

Santesson, C. G.

1926

(Comparative Pharmacological Action of *Matricaria Dioscorea* vs. *Matricaria Chamomilla*)

Pharm. Zentralh., 66, p. 829. (Drugg. Circ., 70, p. 106; Yrbk. Brit. Pharm. Conf., 63, p. 254.)

(Compares the flowers of *Matricaria Dioscorea* with *Matricaria Chamomilla* both chemically and physiologically.)

Youngken, H. W.

1926

Matricaria

Text Book of Pharmacognosy, 2 ed., p. 609.

Gives the synonyms, botanical origin, part used, purity rubric, habitat, description of the plant, production of the flowers, description of the flowers and powdered drug, constituents, uses, adulterants, methods of differentiation, and allied drugs, with an illustration of the plant.

Arnold, W.

1927

Über Kamille, Pfefferminze und Fenchel

Arch. exp. Path. u. Pharmacol., 123, p. 129. (Yrbk. Am. Pharm. Assoc., 17, p. 872; Chem. Abstr., 22, p. 276; Pharm. Jour. 120, p. 273; J. Pharm. Belg., 13, p. 237; Sudd. Apoth. Ztg., 68, p. 287.)

Discusses the effect of infusions of these drugs upon inflammation, with illustrations.

Caesar and Loretz

1927

(*Matricaria Chamomilla*)

Jahresbericht, 1927, p. 33. (Sudd. Apoth. Ztg., 68, p. 287.)

(Physicians are becoming interested in the use of *Matricaria*, but the active principle has not yet been determined.)

Gilg, E., Brandt, W., and Schurhoff, P.

1927

Flores *Chamomillae* (*vulgaris*). Kamillen. Feldkammillen.

Lehrbuch der Pharmacognosie, 4 ed., p. 439. (Sudd. Apoth. Ztg., 68, p. 287.)

Gives the botanical source of the drug, macroscopic and microscopic characteristics with an illustration, characteristics of the powder, the identification and yield of constituents, history, uses, and an illustration of the flower.

Falck, A.

1928

Flos *Chamomillae*

Die officinellen Drogen und ihre Ersatzstoffe, p. 231. (Sudd. Apoth. Ztg., 68, p. 287.)

Lists the pharmacopoeias in which the drug is official, with common name in each language, general properties, and yield of the volatile oil.

Kaiser, H., Eggensperger, K., and Baermann, H.

1928

Von Kamillen, und Kamillenol

Sudd. Apoth. Ztg., 68, p. 284. (Pharm. Zentralh., 34, p. 69; Yrbk. Am. Pharm. Assoc., 16, p. 716; Pharm. Ztg., 73, p. 922; Drugg. Circ., 73, p. 125.)

Gives the active constituent of chamomile, describes the oil, and gives uses of chamomile tea.

Note. The Yearbook of the Am. Pharm. Assoc. gives 2 digests of the article, summarized from different books.

 Gives the classification of Matricaria Chamomilla as Anthemis nobilis, their culture, description of the plant, oil, other constituents, and uses of the dried flower.

Szerdahelyi, K.

1928

(Matricaria Chamomilla)

Ber. II. internat. Tag. europ. Arzneipflanzeninteressenten., p. 34; Pharm. Monatsh., --, p. --. (Yrbk. Pharm. and Quarterly Jour. of Pharmacy and Pharmacology, 2, p. 132.)

(Discusses the cultivation and collection of Matricaria Chamomilla in Hungary, Roumania, Jugo-Slavia, and neighboring countries.)

 (Distinguishes between Matricaria Chamomilla coming from Russia, Hungary, and Western (probably Germany).)

Greenish, H. G.

1929

Chamomile flowers

Materia Medica, 5 ed., p. 82.

Lists Matricaria Chamomilla as a substitute for Anthemis nobilis, and differentiates between the 2 plants.

 Gives the identity and botanical limits, habitat, constituents, uses, dose, preparation, and properties.

Junkmann, K., and Wiechowski, W.

1929

Über das wirksame Prinzip der Kamillenbluten

Arch. exp. Path. u. Pharm., 144, p. 1. (Yrbk. Brit. Pharm. Conf., 67, p. 141.)

Discusses the action of the active constituent of chamomile, a glucoside, with 4 graphs.

Redgrove, H. S.

1929

Some notes on Chamomile

Pharm. Jour., 122, p. 50; Nat. Drugg., 59, p. 185. (Yrbk. Am. Pharm. Assoc., 18, p. 98.)

Gives the classification of *Matricaria Chamomilla* and *Anthemis nobilis*, their cultivation, description of the essential oils, other constituents, and uses of the dried flower heads.

Boros, A.

1930

(Recognition of the Source of German Chamomiles)

Pharm. Ztg., 75, p. 1404; Heil. u. Gewurzpfl., 13, H. 2. (Yrbk. Pharm. and Quarterly Jour. of Pharmacy and Pharmacology, 4, p. 123.)

(Distinguishes between *Matricaria Chamomilla* coming from Russia, Hungary, and Western Europe (probably Germany).)

Rusby, H. H., Bliss, A. R., and Ballard, C. W.

1930

Matricaria (*Matricar.*). German Chamomile, N. F.

Properties and Uses of Drugs, p. 213.

Gives the impurity and ash limits, habitat, constituents, uses, dose, preparation, and adulterations.

Wehmer, C.

1931

Matricaria Chamomilla L.

Die Pflanzenstoffe, 2 ed., v. 2, p. 1241.

Gives the habitat, part official, and constituents of Matricaria Chamomilla, with references.

- Willd., A., - Materia Medica, etc., 5 ed., 1716.
- Berendes, J., - Poisons' von Aspinak, etc., 1914.
- Berg, G., - Anatomischer Atlas zur Pharmazeutischen Weidenskunde, 1865.
- Berg, G., - Pharmakognosie des Pflanzen- und Tierreichs, 2 ed., 1857; 4 ed., 1863; 5 ed., 1872.
- Berg, G., - Pharmazeutische Botanik, 5 ed., 1866.
- Berg, G., - Pharmazeutische Warenkunde, 2 ed., 1857; 4 ed., 1862; 5 ed., 1873.
- Berg, G. C., and Schmidt, C. F., - Atlas der Officinalen Pflanzen, 2 ed., v. 1-4, 1890.
- Bridg., G., - Catalogue of the Raw Products of Southern India, etc., 1873.
- Rigelow, J., - Materia Medica, 1882.
- Blair, I. S., - Botanic Drugs, 1917.
- Bohn, W., - Die Heilwerte Scandischer Pflanzen, 1839.
- Erech, H., - Die Tierwelt in Heilkunde und Drogenkunde, 1922.
- Brants, L., and Jaloux, M., - Plantae Officinales, etc., 1912.
- Campegne, T. J., - Handboek voor Drogisten- en Apothekersleerlingen, 1854.
- Campbell, M., and Crawford, J., - Arrangement of Animal and Vegetable Drugs, etc., 1883.
- Carpenter, G. W., - Essays on Materia Medica, etc., 1831.

List of Books Consulted.

- An American Physician, - Eclectic and General Dispensatory, 1827.
- Anshutz, E. P., - New, Old, and Forgotten Remedies, 1900.
- Baillon, H., - Traite de Botanique Medicale, etc., 1889.
- Bell, A., - Materia Medica, etc., 3 ed., 1716.
- Berendes, I., Paulos' Von Aegina, etc., 1914.
- Berg, O., - Anatomischer Atlas zur Pharmazeutischen Waarenkunde, 1865.
- Berg, O., - Pharmakognosie des Pflanzen- und Thierreichs, 2 ed., 1857; 4 ed., 1864; 5 ed., 1879.
- Berg, O. - Pharmazeutische Botanik, 5 ed., 1866.
- Berg, O., - Pharmazeutische Waarenkunde, 2 ed., 1857; 4 ed., 1869; 5 ed., 1879.
- Berg, O. C., and Schmidt, C. F., - Atlas der Officinellen Pflanzen, 2 ed., v. 1-4, 1890.
- Bidie, G., - Catalogue of the Raw Products of Southern India, etc., 1878.
- Bigelow, J., - Materia Medica, 1822.
- Blair, T. S. - Botanic Drugs, 1917.
- Bohn, W. - Die Heilwerte Heimischer Pflanzen, 1839.
- Broch, H., - Die Tierwelt in Heilkunde und Drogenkunde, 1925.
- Bruntz, L., and Jaloux, M., - Plantes Officinales, etc., 1918.
- Campagne, P. J., - Handboek voor Droogisten- en Apothekers-Leerlingen, 1854.
- Campbell, M., and Crawford, J., - Arrangement of Animal and Vegetable Drugs, etc., 1883.
- Carpenter, G. W., - Essays on Materia Medica, etc., 1831.

- Carson, J., - Synopsis of the Course of Lectures on Materia Medica, etc., 1867.
- Carthevser, F., Fundamenta Materiae Medicae, etc., 1749.
- Cauvet, D., - D'Histoire Naturelle Medicale, etc., 2 ed., 1877.
- Chevallier, A., and Richard, A., - Dictionnaire des Drogues, etc., 1827.
- Christy, T., - New Commercial Plants, etc., 1878.
- Clusius, C., - Exoticorum Libri Decem, etc., 1605.
- Commelin, C., - Praeludia Botanica, 1703.
- Compain, M., - Guide de L'Herboriste - Droguisti, 1920.
- Coxe, J. R., - American Dispensatory, 1 ed., 1806; 4 ed., 1818; 6 ed., 1825; 7 ed., 1827; 8 ed., 1830; 9 ed., 1831.
- Cuba, J., Hortus sanitatis, 1485.
- De Candolle, A. P., - Essai Sur Les Proprietes Medicales Des Plantes, 1816.
- De Saldanha Da Gama, J., - Classement Botanique des Plantes Alimentaires du Bresil, 1867.
- Dieterich-Helfenberg, K., - Die Wichtigsten medizinischen Drogen, 1911.
- Dodoens, R., - Florum et Coronariarum, etc., 1569.
- Dodoens, R., - Purgantium Aliarumque, etc., 1574.
- Dorveaux, P., - Le Livre Des Simples Medecines, 1913.
- Dragendorff, G., - Die Hielpflanzen, etc., 1890.
- Edes, R., - Therapeutic Handbook of the United States Pharmacopoeia, 1883.
- Eichler, A. W., - Syllabus, etc., 1886.
- Ewell, J., - Medical Companion, 1 ed., 1817; 2 ed., 1827.

- Falck, A., - Die Offizinelles Drogen und ihre Ersatzstoffe, 1928.
- Fenner, B., - Hand Book of the United States Pharmacopoeia, 1894.
- Fenner, B., - Working Formulae, 2 ed., 1886.
- Flint, J. M., - Classification of the Materia Medica Collection,
etc., 1883.
- Fluckiger, F. A., - Grundlagen der Pharmaceutischen Waaren-
kunde, etc., 1873.
- Fluckiger, F. A., and Tschirch, A. (Translated by Power, F. B.,
from the second German edition), The Principles of Phar-
macognosy, 1887.
- Freyberger, H. M., - Organischen Drogen, etc., 1874.
- Fristedt, R. F., - Larobok Organisk Pharmakologi, etc., 1873.
- Gadd, H. W., - Drugs, etc., 1904.
- Garsault, F. A., - Explication Abreegee, etc., 1765.
- Gilg, E., - Lehrbuch der Pharmakognosie, 1910.
- Gilg, E., and Brandt, W., - Lehrbuch der Pharmakognosie, 1922.
- Gilg, E., Brandt, W., and Schurhoff, P. N., - Lehrbuch der
Pharmakognosie, 4 ed., 1927.
- Goebel, F., and Kunze, G., - Pharmaceutische Waarenkunde, v.
1, 1827; v. 2, 1834.
- Good, P. P., - Family Flora, 2 ed., 1845.
- Greenish, H. G., - Materia Medica, 5 ed., 1929.
- Griffith, R. E., - Medical Botany, etc., 1847.
- Guibourt, N. J. B. G., - Histoire Abreegee des Drogues Simples,
3 ed., 1836; 4 ed., 1852; 6 ed., 1867.
- Hand, W. M., - The House Physician, etc., 1820.
- Hansen, A., - Drogenkunde, 1897.

- Hayne, F. G., - Darstellung und Beschreibung der Arzneigewaechse, etc., v. 1-13, 1853.
- Hedges, H. T., - Polyglot Index, etc., 1884.
- Henkel, J. B., - Atlas zur medizinisch-pharmazeutischen Botanik, etc., 1863.
- Henkel, J. B. - Handbuch der Pharmacognosie, etc., 1867.
- Henkel, J. B., - Medizinisch-pharmazeutische Botanik nebst Atlas, 1862.
- Herail, J., - Traite de Matiere Medicale Pharmacographie, 1 ed., 1912; 3 ed., 1927.
- Humphrey, J., - Drugs in Commerce, 1921.
- Johnson, L., - Medical Botany of North America, 1884.
- Karsten, G., and Oltmanns, F., - Lehrbuch der Pharmakognosie, 2 ed., 1909; 3 ed., 1920.
- King, J., - American Dispensatory, 1 ed., 1852; 6 ed., 1864; 8 ed., 1872; 10 ed., 1875; 15 ed., 1881; 16 ed., 1889.
- Kobert, R., - Beitrage zur Kenntnis der vegetabilischen Hamaglutinine, 1913.
- Kobert, R., - Pharmakobotanisches aus Rostocks Vergangenheit, 1911.
- Koch, L., and Gilg, E., - Pharmakognostisches Praktikum, 1907.
- Kraemer, H., - Scientific and Applied Pharmacognosy, 1 ed., 1915; 2 ed., 1920; 3 ed., 1928.
- Kohl, F. G., - Die Officinellen Pflanzen der Pharmacopoea Germanica, etc., 1895.
- Kreuz, C., - Pharmakognosie, etc., 1886.
- Kromayer, A., Die Bitterstoffe, etc., 1861.

- Kunth, K.-S., - *Officinellen Gewächse in der Pharmacopoea Borussica*, 1834.
- La Framboisiere, N. A., - *Les Oeuvres*, 1669.
- Lange, J., - *Icones Plantarum Officinalium Scandinaviae*, 1885.
- Langenhan, H. A., - *Century of the U. S. Pharmacopoeia*, 1923.
- Lemery, N., - *Dizionario Overo Trattato Universale, etc.*, 1721.
- Lessing, M. B., - *Materia Medica*, 1859.
- Lewis, W., - *An experimental History of the Materia Medica*, 1761.
- Lewis, W., - *Materia Medica, etc.*, 1771.
- Leyel, C. F., - *The Magic of Herbs*, 1926.
- Lindley, J., *Flora Medica*, 1838.
- Linne, C., - *Materia Medica, etc.*, 2 ed., 1772.
- Ludovici, D., - *Pharmacia Moderno Seculo, etc.*, 2 ed., 1685.
- Maische, J. M., - *A Manual of Organic Materia Medica*, 3 ed., 1887; 5 ed., 1892; 6 ed., 1895.
- Marzell, H., - *Unsere Heilpflanzen, etc.*, 1922.
- Matthioli, P. A., - *De Plantis Epitome Utilissima, etc.*, 1568.
- Merrell, A., - *A Digest of Materia Medica and Pharmacy*, 1883.
- Mesvae, J., - *Medici Clarissimi Opera, etc.*, 1589.
- Mitlacher, W., - *Die Offizinellen Pflanzen und Drogen*, 1912.
- Monro, D., - *A Treatise on Medical and Pharmaceutical Chemistry*, 1788.
- Morelot, S., - *Dictionnaire General Des Drogues, etc.*, 1807.
- Mowat, J. L. G., - *Aliphata, etc.*, 1887.
- Muller, C., - *Medicinalflora*, 1890.
- Murray, J., - *System of Materia Medica and Pharmacy*, v. 1, 1 ed., 1815; v. 2, 2 ed., 1821; 4 ed., 1828; 6 ed., 1832.

- Nees von Esenbeck, T. F. L., and Ebermaier, C. H., - handbuch der medicinisch-pharmaceutischen Botanik, v. 1-3, 1830.
- Nicolai, E. A., - Systema Materiae Medicae, etc., 1751.
- Oldberg, O., - Unofficial Pharmacopoeia, 1881.
- Oldberg, O., and Wall, G. A., - Companion to the United States Pharmacopoeia, 1884.
- Opwijoda, R. J., and Nortier, H. K., - Handboek voor Droogisten- en Apothekers-Leerlingen, 1854.
- Ottersbach, G., and Dorstewitz, R., - Drogenkunde, 2 ed., 1921.
- Pabst, G., - Kohler's Medizinal-pflanzen, etc., 1890.
- Persoon, C. H., - Abhandlung uber die Eszbaren Schwamme, 1822.
- Pobequin, H., - Plantes Medicinalis de La Guinee, 1912.
- Pollock, A., - Botanical index to all the medicinal Plants, etc., 1872.
- Ranchin, F., - Oeuvres pharmaceutiques, 1628.
- Renodici, I., - Institutionum Pharmaceuticarum, 1727.
- Reutter, L., - Traite de Matiere Medicale, etc., 1923.
- Rusby, H. H., Bliss, A. R., and Ballard, C. W., Properties and Uses of Drugs, 1930.
- Sayre, L. E., - Conspectus of Organic Materia Medica and Pharmacal Botany, 1879.
- Sayre, L. E., - Manual of Organic Materia Medica and Pharmacognosy, 1895.
- Schleiden, M. J., - Handbuch der Botanischen Pharmacognosie, 1857.
- Schleiden, M. J., - Handbuch der Medicinisch-pharmaceutischen Botanik, etc., 1852.

- Schlickum, R., - Pharmakognosie, 3 ed., 1924.
- Schmitthenner, F., - Pharmakognosie des Pflanzen- und Tierreiches, 1905.
- Schroder, J., - Quercetanus Redivivus, 1679.
- Schubeler, F. C., - Culturpflanzen Norwegens, 1862.
- Stokvis, B. J. - Voordrachten over Geneesmiddelleer, 1906.
- Thatcher, J., - American New Dispensatory, 1 ed., 1810; 2 ed., 1813; 4 ed., 1821.
- Triller, D. W., - Dispensatorium Pharmaceuticum, etc., 1764.
- Trommsdorff, J. B., - Handbuch der pharmaceutischen Waarenkunde, 1 ed., 1806; 3 ed., 1822.
- Wall, O. A., - Notes on Pharmacognosy, 3 ed., 1909; 4 ed., 1917; 5 ed., 1928.
- Wigand, J. W. A., - Lehrbuch der Pharmakognosie, 1 ed., 1863; 4 ed., 1887.
- Wiggers, A., - Grundrisz der Pharmacognosie, 1853.
- Windler, E., - Niederdeutsche Denkanaler, 7 ed., 1932.
- Winkler, E., - Real-Lexikon, etc., 1840.
- Wood, G. B., and Bache, F., - United States Dispensatory, 2 ed., 1834; 3 ed., 1836; 4 ed., 1839; 5 ed., 1843; 6 ed., 1845; 7 ed., 1847; 8 ed., 1849; 9 ed., 1851; 10 ed., 1854; 11 ed., 1858; 12 ed., 1865; 13 ed., 1871; 14 ed., 1879; 15 ed., 1883; 16 ed., 1889; 17 ed., 1894; 19 ed., 1907; 20 ed., 1918; 21 ed., 1926.
- Woodville, W., - Medical Botany, 2 ed., v. 1-4, 1810.
- Youngken, H. W., - Pharmaceutical Botany, 1914.
- Youngken, H. W., - A Text-Book of Pharmacognosy, 2 ed., 1926.
- Zornig, H., - Arzneidrogen, etc., 1911.

List of Journals Consulted.

- Amer(ican) Drugg(ist).., 13-61; 1884-1913; v. 66-82; 1918-1930.
- Amer(ican) Jour(nal of) Pharm(acy).., v. 1-103; 1829-1931.
- Brit(ish) and Col(onial) Pharm(acist).., v. 12; 1887; v. 14;
1888; v. 16-28; 1889-1895; v. 30-84; 1896-1931.
- Bull(etin of the) Am(eric)an Pharm(aceutical) Assoc(iation)..,
v. 1-6; 1906-1911.
- Bull(etin of) Pharm(acy).., v. 5-42; 1891-1928.
- Can(adien) Drugg(ist).., v. 11-21; 1899-1909.
- (The) Chem(ist and) Drugg(ist).., v. 1-63; 1824-1903; v. 65-106;
1904-1927; v. 108-116; 1928-1932.
- (The) Chem(ists' and) Drugg(ists') Diary.., v. 16-64; 1884-1932.
- (The) Chem(ists' and) Drugg(ists') Year Book and Dir(ectory
for) Scot(land).., 1914; 1921; 1923-1925.
- Drugg(ists) Circ(ular).., v. 1-52; 1857-1908; v. 55-73; 1911-1929.
- Jour(nal of the) Am(eric)an Pharm(aceutical) Assoc(iation),
v. 1-18; 1912-1929.
- Jour(nal of) Mat(eria) Med(ica).., v. 1-19; 1859-1880.
- Merck's Arch(ives).., v. 1-16; 1899-1914.
- Merck's Rep(ort).., v. 2-14; 1893-1905; v. 17-40; 1908-1931.
- Meyer Bro(thers) Drugg(ist).., v. 9-53; 1888-1930.
- (The) Mid(land) Drugg(ist and) Pharm(aceutical) Rev(iew).., v.
1-60; 1899-1926.
- Mont(real) Pharm(aceutical) Jour(nal).., v. 7-42, 1890-1931.
- N. A. R. D. Jour(nal).., v. 1-53; 1902-1931.
- Nat(ional) Drugg(ist).., v. 12-61; 1888-1931.
- New Engl(and) Drugg(ist).., v. 8-15; 1896-1903.

(The) Pharm(aceutical) Era., v. 1-67; 1887-1930.

Pharm(aceutical) Jour(nal).., v. 1-68; 1841-1902; v. 70-127;
1903-1931.

Pharm(aceutical) Rec(ord).., v. 3-15; 1883-1893.

Pharm(acist and) Chem(ist).., v. 3-18; 1870-1885.

Pract(ical) Drugg(ist).., v. 1-24; 1897-1908; v. 27-49; 1910-
1931.

Proc(eedings of the) Am(eric)an Pharm(aceutical) Assoc(iation)..,
v. 1-20; 1912-1931.

West(ern) Drugg(ist).., v. 2-32; 1880-1910; v. 34-50; 1912-1928.

Y(ea)rb(oo)k (of the) Am(eric)an Pharm(aceutical) Assoc(iation)..,
v. 1-17; 1912-1928.

Y(ea)rb(oo)k (of Pharmacy and Transactions of the) Brit(ish)
Pharm(aceutical) Con(ference).., v. 1-67; 1864-1931.

U. S. P. 1840.

Matricaria. German Chamomile.

The flowers of Matricaria Chamomilla.

U. S. United States Pharmacopœia (O-X)

Matricaria (1820 - 1920)

The flowers of Matricaria Chamomilla.

and

U. S. P. National Formulary (I-V)

Matricaria (1888 - 1926)

The flowers of Matricaria Chamomilla.

History

U. S. P. 1870.

of

Matricaria German Chamomile

The flowers of Matricaria Chamomilla Linne

U. S. P. 1880.

Matricaria.

Matricaria.

(German Chamomile)

The flower-heads of Matricaria Chamomilla Linne (75).

Ord., Compositae).

About three-fourths of an inch (15 millimeters) broad.

U. S. P. 1840. S. p. 46.

Matricaria. German Chamomile

The flowers of Matricaria Chamomilla.

U. S. P. 1850. S. p. 52.

Matricaria German Chamomile

The flowers of Matricaria Chamomilla.

U. S. P. 1860. P. p. 37.

Matricaria German Chamomile

The flowers of Matricaria Chamomilla.

U. S. P. 1870. P. p. 38.

Matricaria German Chamomile

The flowers of Matricaria Chamomilla.

U. S. P. 1880. p. 219.

Matricaria.

Matricaria.

(German Chamomile)

The flower-heads of Matricaria Chamomilla Linne (Nat. Ord., Compositae).

About three-fourths of an inch (18 millimeters) broad,

composed of a flattish, / imbricate involucre, a conical, hollow, naked receptacle, about fifteen white, / ligulate, reflexed ray-flowers, and numerous yellow, tubular, perfect flowers with- / out pappus; strongly aromatic and bitter.

The similar flower-heads of *Anthemis arvensis* Linne, and *Maruta Cotula* De / Candolle, have a conical, solid, and chaffy receptacle.

U. S. P. 1890.

p. 255.

Matricaria.

Matricaria.

(German Chamomile)

The flower-heads of *Matricaria Chamomilla* Linne (nat. ord. Com- / positae).

About 15 to 20 Mm. broad, composed of a flattish, imbricate involucre, a / conical, hollow, naked receptacle, which is about 5 Mm. high, about fifteen / white, ligulate, reflexed ray-florets, and numerous yellow, tubular, perfect / disk-florets without pappus; strongly aromatic and bitter.

The similar flower-heads of *Anthemis arvensis* Linne, and *Maruta Cotula* De / Candolle (nat. ord. Compositae), have conical, solid, and chaffy receptacles.

U. S. P. 1900.

p. 287.

Matricaria

Matricaria

The dried flower-heads of *Matricaria Chamomilla* Linne (Fam./ Compositae).

About 6 or 8 Mm. broad, exclusive of the rays, with a flattish imbricated/ involucre, a conical, hollow, and naked receptacle, 10 to 20 white ligulate/ and reflexed pistillate ray-florets which are about 8 Mm. long, and numerous/ yellow, tubular, perfect disk-florets without pappus; odor somewhat disagree-/ ably aromatic; taste strongly aromatic and bitter.

The similar flower-heads of *Anthemis arvensis* Linne, and *Maruta Cotula* De/ Candolle (Fam. Compositae), have conical, solid, and chaffy receptacles.

Average dose. - 16 Gm. (240 grains).

U. S. P. 1910.

p. 269.

Matricaria

Matricaria

Matricar. -- German Chamomile Wild Chamomile

The dried flower-heads of *Matricaria Chamomilla* Linne (Fam. Com-/ positae), without the presence or admixture of more than 5 per cent. of/ stems or foreign matter. Preserve it in tightly-closed containers and/ guard against attacks by insects.

flower-heads composed of a few white ray-florets and numerous yellow disk-/ florets on conical, more or less hollow

receptacles, the latter being from 3 to 10 mm./ in breadth; disk-flowers tubular, perfect, and without a pappus; ray-flowers from/ 10 to 20, pistillate, corolla white, 3-toothed and 4-veined, usually reflexed; in-/ volucre hemispherical, composed of from 20 to 30 imbricated, oblanceolate, and/ pubescent scales; peduncles light green to brownish-green, longitudinally fur-/ rowed, more or less twisted and attaining a length of 2.5 cm.; achenes somewhat/ obovois and faintly 3- to 5-ribbed; pappus none, or only a slight membranous/ crown; odor pleasant, aromatic; taste aromatic and bitter.

Matricaria yields not more than 13 per cent. of ash.

Average dose -- Metric, 15 Gm. -- Apothecaries, 4 drachms.

N. F. 1926

p. 362.

Matricaria

Matricaria

(U.S.P. IX)

Matricar.

German Chamomile

Matricaria is the dried flower-head of *Matricaria Chamomilla* Linne/ (Fam. Compositae).

Matricaria contains not more than 5 per cent of stems or other foreign/ organic matter, and yields not more than 4 per cent of acid-insoluble/ ash.

Description and physical properties.

Unground Matricaria: Flower-heads composed of a few white ray-florets and/ numerous yellow disk-florets on a conical, hollow receptacles, the latter being from/ 3 to 10 mm. in

breadth; disk-florets tubular, perfect and without a pappus;/ ray-florets from 10 to 20, pistillate, corolla white, 3-toothed and 4-veined,/ usually reflexed; involucre hemispherical, composed of from 20 to 30 imbricated,/ oblanceolate and pubescent scales; peduncles light green to brownish green,/longitudinally furrowed, more or less twisted and attaining a length of 2.5 cm.;/ achenes somewhat obovoid and faintly 3- to 5-ribbed; pappus none, or only a/ slight membranous crown. Odor pleasant, aromatic; taste aromatic and bitter.

Powdered *Matricaria*; Yellowish brown; exhibits numerous spinose, spherical/ or triangulate pollen grains with 3 pores, and up to 0.025 mm. in diameter;/ fragments of corolla from ray-florets with papillate epidermal cells; few short/ glandular hairs; fragments of achene tissue with epidermal cells having scalari-/ form markings or wavy longitudinal walls and parenchyma containing rosette/aggregates of calcium oxalate, the latter up to 0.010 mm. in diameter; fragments/ of characteristic tissue of anthers composed of elongated cells with scalariform/ walls; fragments of stigmas, the upper end bearing characteristic pappillae;/ vascular bundles with tracheae having spiral, annular, or reticulate markings;/ fragments of the involucreal scales bearing porous fibers, tracheae and elliptical/ stomata, the latter up to 0.030 mm. in length.

Preserve *Matricaria* in tightly closed containers.

Preparation: Species Emollientes.

Average dose: Metric, 15 Gm.--Apothecaries, 4 drachms.

Summary of Data of Matricaria Chamomilla, U. S. P. 1820-1920
and N. F. 1888 - 1926

Official in:

U. S. P., 1840, '50, '60, '70, '80, '90, 1900, '10;
 N. F., 1926.

Official Latin Title:

Matricaria, U. S. P. 1840, '50, '60, '70, '80, '90, 1900,
 '10; N. F., 1926.

Official English Title:

German Chamomile, U. S. P., 1840, '50, '60, '70.
 Matricaria, U. S. P., 1880, '90, 1900, '10; N. F., 1926.

Official Abbreviation:

Matricar., U. S. P., 1910; N. F., 1926.

Official Synonym:

German Chamomile, U. S. P., 1880, '90, 1910; N. F., 1926.
 Wild Chamomile, U. S. P., 1910.

Official Family:

Compositae, U. S. P., 1880, '90, 1900, '10; N. F., 1926.

Scientific Name:

Matricaria Chamomilla, U. S. P., 1840, '50, '60, '70.
 Matricaria Chamomilla Linne, U. S. P., 1880, '90, 1900,
 '10; N. F., 1926.

Part Used;

The flowers, U. S. P., 1840, '50, '60, '70.
 The flower-heads, U. S. P., 1880, '90, 1900, '10; N. F.,
 1926.

Description:

U. S. P., 1880, '90, 1900, 10; N. F., 1926.

Official Preparation:

Species Emollientes, N. F., 1926.

Official Dose:

Metric, 16 Gm.

Apothecaries, 240 grains, U. S. P., 1900.

Metric, 15 Gm.

Apothecaries, 4 drachms, U. S. P., 1910; N. F., 1926.

APPROVED

Mentha piperita
and *Peppermint*

APPROVED

W. Richtmann

Assoc. Prof. of Pharmacology.