

A MONOGRAPH OF THE WESTERN HEMISPHERE BUMBLEBEES (HYMENOPTERA: APIDAE; BOMBINAE)

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BIBLIOGRAPHY

The following literature pertaining to various aspects of the study of bumblebees is reasonably complete through the year 1961; beyond this date only those works that have an important bearing on bumblebee research have been included. Virtually all of the citations given herein have been examined or consulted during a study of the Western Hemisphere bumblebees. This work will appear in about five parts.

- Abe, S. 1932. The nest of *Bombus diversus* Smith. *Kontyû* 5: 245-247.
Acerbi, J. 1802. Travels through Sweden, Finland and Lapland, to the North Cape, in the years 1798 and 1799. Vol. 2, 376 pp., 8 pls. (unnumbered). Mawman, London.
Adams, C. C., et al. 1920. Plants and animals of Mount Marcy, New York, II. *Ecology* 1(3): 204-233 (pp. 212, 226, 231).
Akerberg, E., and S. K. Lesinš. 1949. Insect pollinating alfalfa in central Sweden. *A. Rep. agric. Coll., Sweden* 16: 630-643.
Alfken, J. D. 1889. Hymenopterologische beobachtungen. *Abh. naturw. Ver. Bremen* 10: 553-555.
_____. 1898. Zwei färbungen von *Bombus pratorum* L. *Ent. Nachr.* 24(10): 158.
_____. 1900. *Bombus soröensis* F., form *proteus* Gerst. und seine farben-varietäten. *Ibid.* 26(12): 184-190.
_____. 1909a. Beiträge zur kenntnis der apidenfauna von Westpreussen. *Ber. westpreuss. bot.-zool. Ver. (Danzig)* 31: 101-123.
_____. 1909b. Beiträge zur kenntnis der apidenfauna von Ostpreussen. *Schr. phys.-ökön. Ges. Königsb.* 50(h. 3): 320-345.
_____. 1912a. Die bienenfauna von Westpreussen. *Ber. westpreuss. bot.-zool. Ver. (Danzig)* 34: 1-94, taf. 1, 2.
_____. 1912b. Die bienenfauna von Ostpreussen. *Schr. phys.-ökön. Ges. Königsb.* 53: 114-182.
_____. 1913. Die bienenfauna von Bremen. *Abh. naturw. Ver. Bremen* 22 (h. 1): 1-220.
_____. 1915. Beitrag zur bienenfauna von Ostfriesland. *Festschr. naturf. Ges., Emden*, pp. 197-241.
_____. 1933. Ergebnisse einer zoologischen sammelreise nach Brasilien, insbesondere in das Amazonasgebiet, ausgeführt von Dr. H. Zerny. IX. Teil. Hymenoptera: Apidae. *Annln naturh. Mus. Wien* 46: 303-307 (1932).
_____. 1935. Beitrag zur kenntnis der bienenfauna von Kleinasien. *Ent. Rdsch.* 52(10): 129-132; *ibid.* 52(11): 148-152; *ibid.* 52(12): 153-162.
_____. 1936. Ueber eine bienenausbeute aus Venezuela. *Veröff. dt. Kolon-u. Übersee-Mus. Bremen* 1 (h. 3): 316-320.
_____. 1940. Die insekten des naturschutzzparkes der Lüneburger Heide. *Abh. naturw. Ver. Bremen* 31 (h. 4): 750-762 (1939-40).
Anon. [Jurinian-Fabrician Generic Synopsis (by G. W. F. Panzer).] 1801. Vermischte nachrichten. Nachricht von einen neuen entomolischen [*sic!*] werke, des Hrn. Prof. Jurine in Geneve. *Intelligenzbl. Litt.-Ztg Erlangen* 1 (Nro. 21 [No. 201]): 160; *ibid.* 1(Nro. 21): 161-165. [Jurinian-Fabrician generic synopsis (by G. W. F. Panzer). No. 21, the second part, or "Beschluss", contains the "Erlangen List".]

NOTE:

For the most part, except for the initial word or letter of titles, only those words regarded as proper nouns or important ones used *in lieu* thereof are begun with capital letters. This practice was adopted herein without the slightest disrespect for, or lack of appreciation of, the usual linguistic style of any language whatsoever. The digression is particularly noticeable with the German and French entries. However, in view of the closely set format, the writer is of the opinion that this practice makes for a more readily usable bibliography wherein accuracy has been stressed over style.

- 1878. Les insectes. Organisation-moeurs chasse-collection-classification. Histoire naturelle des orthoptères- neuroptères- hyménoptères- diptères- aptères, etc. *Mus. Ent.* 3: vii + 427 pp., 24 pls. (col.). (*Edited by J. Rothschild, Paris.*)
- 1945. Red clover and bumble bees (*Bombus*). *Canterbury Chamber Com. agric. Bull.* 190, 4 pp. (Canterbury Agric. Coll., N.Z.)
- Argumosa y Valdes, J. A. 1949. "Bahnung" entomologico en la "*Wistaria chinensis*" D. C. Tomo extraord. *R. Soc. cap. hist. nat.*, Madrid, pp. 174-175 (1946).
- Armbruster, L. 1914. Problème des hummelstaates. *Biol. Zbl.* 34: 685-702, 1 pl., 1 fig.
- Armbruster, L., and G. Oenike. 1929. Die pollenformen als mittel zur honigherkunftbestimmung. Büch. Bienenk. X, pp. 1-116, Neumünster.
- Armitage, K. B. 1965. Notes on the biology of *Philanthus bicinctus* (Hymenoptera: Sphecidae). *J. Kans. ent. Soc.* 38(2): 89-100.
- Armstrong, E. A. 1953. Nidicoles and parasites of the wren. *Ir. Nat. J.* 11(3): 57-64.
- Ashmead, W. H. 1890. On the Hymenoptera of Colorado; descriptions of new species (Part 1), and a list of the species found in the State (Part 2). *Colo. biol. Ass. Bull.* 1, 32 pp.
- 1894. The habits of the aculeate Hymenoptera—I. *Psyche, Camb.* 7: 19-26; II, 7: 39-46; III, 7: 59-66; IV, 7: 75-79.
- 1900. Report upon the aculeate Hymenoptera of the islands of St. Vincent and Grenada, with additions to the parasitic Hymenoptera and a list of the described Hymenoptera of the West Indies. *Trans. R. ent. Soc. Lond.*, Pt. 2, pp. 207-367.
- 1902a. A new bumble bee from Colorado. *Ent. News* 13: 50.
- 1902b. Papers from the Harriman Alaska Expedition XXVIII: Hymenoptera. *Proc. Wash. Acad. Sci.* 4: 117-274, pls. ix-xi.
- 1904. Insects, Part II. (*Bombus, Psithyrus*, pp. 129-137.) In: Harriman Alaska Expedition. *Harr. Alask. Ser.* (Smithson. Inst.), Vol. ix, ix + 284 pp. Doubleday, Page, New York.
- Ashmead, W. H., et al. 1898. Reports upon the insects, spider, mites, and myriapods collected by Dr. L. Stejneger and Mr. G. E. H. Barrett-Hamilton on the Commander Islands. Appendix 1, pp. 328-351. To: The fur seals and fur-seal islands of the North Pacific Ocean, Pt. 4, pp. 1-384, 113 pls. (89 pls., 24 maps). U.S. Gov. Printing Office, Washington.
- Atanassov, N. 1939. Beitrag zur studium der hummel fauna Bulgariens. *Mitt. bulgar. ent. Ges. Sofia* 10: 91-109.
- Atwood, C. E. 1933. Studies on the Apoidea of western Nova Scotia with special reference to visitors to apple blossoms. *Can. J. Res.* 9: 443-457.
- Audoin, J. V. [with Lachat.] 1821. Observations sur les organes copulateurs mâle des bourdons. *Ann. gén. Sci. Phys.* 8: 285-289.
- Aurivillius, C. 1890. Grönlands insektsfauna. I: Lepidoptera, Hymenoptera. *K. svenska Vetensk-Akad. Handl.* 15 (afd. 4, No. 1): 1-33 + 1 p. index + 3 pls.
- 1903. Svensk insektfauna 13. *Ent. Tidskr.* 24: 129-218.
- Babiy, P. P. 1925. Neues zum hummelpproblem. *Z. wiss. Zool.* 125: 502-512, 2 figs.
- 1939. *Apis griseocollis* De Geer - *Bombus separatus* Cresson (Hymenoptera: Bombidae). *Ent. News* 50(1): 22-23.
- 1954(?). Zur hummelfauna der Salzburger Landes. *Mitt. naturw. ArbGemein Haus Nat. Salzb.* 3-4: 20-21 (1952-53).
- Bachmann, M. 1911-12. Beobachtungen über blütenbesuchende insekten in der Eichstätter Alp. *Mitt. munch. ent. Ges.* 2: 74-80, 91-94 (1911); 3: 14-16, 28-32, 41-48, 59-64, 96-105 (1912).
- 1913-14. Blütenbiologische spaziergänge. *Int. ent. Z.* (Guben) 27: 215-216; 223-224, 230-231, 237 (1913); 28: 87-89, 93-95, 100-101, 106-107, 110-111, 114-115 (1914).
- 1915. Biologische beobachtungen an hummeln. *Mitt. munch. ent. Ges.* 6: 71-111.
- 1916. Beobachtungen vor dem hummelnest. *Int. ent. Z.* (Guben) 29: 89-90, 93-94, 98-99, 103-104; 30: 1-3.
- 1916-17. Vom farbensinn der bienen. *Ibid.* 30: 65-66, 69-70, 73-74, 77-78 (1916); 30: 82-83, 86-87 (1917).
- Bailey, W. W. 1879. Humble bees and the *Gerardia flava*. *Am. Nat.* 13: 649.
- Ball, P. J. 1914. Les bourdons de la Belgique. *Ann. Soc. ent. Belg.* 58: 77-108, 1 pl.
- Balles, H. 1930. Beiträge zur kenntnis der hymenopterenfauna Bodens: III-IV. *Arch. Insektenk. Oberrheingeb.* 2: 161-202.
- Banks, N. 1919. The Acarina collected by the Canadian Arctic Expedition, 1913-18. *Rep. Can. Arctic Exped.*, Vol. III, Insects, pt. H, pp. IIH-13H.

- Barendrecht, G. 1931. Die Corpora peduculata bei die gattungen *Bombus* und *Psithyrus*. *Acta zool.* 12: 153–204, 23 figs.
- _____. 1941. Hommels uit het Noorden. *Ent. Ber., Amst.* 10: 331–335.
- Beal, W. G. 1874. The fertilization of gentians by humblebees. *Am. Nat.* 8: 180–181, 226.
- _____. 1887. Bumble bees a great help in fertilizing red clover (pp. 325–328). In: *Grasses of North America*. Thorpe & Godfrey, Lansing, Mich.
- Beck, D. E. 1933. A morphological study of the male genitalia of various genera of bees. *Utah Acad. Sci.* 10: 89–137, pls. 1–8.
- Belt, T. 1878. The importation of bumble bees into New Zealand. *Sci. Gossip* 14: 89–90.
- Benary, H. 1900. Eine getäuschte hummel, III. *Z. Ent.* 5: 203.
- Benetti, V. 1902. Ricerche biologiche sui bombi. *Monitore zool. ital.* 13 (suppl.): 38–40.
- Bengtsson, S. 1903. Studier och iakttagelser öfver humlor. *Ark. Zool.* 1: 197–222.
- Bennett, A. W. 1883. On the constancy of insects in their visits to flowers. *J. Linn. Soc. (Zool.)* 17: 175–185.
- Benoist, R. 1927. *Bombus lapidarius* L. st. *atlanticus* R. Ben. *Bull. Soc. sci. nat., Maroc* (1927): 212.
- _____. 1928. Étude sur la faune des hyménoptères des Alpes Françaises. *Annls Soc. ent. Fr.* 97: 389–417.
- [Benson, R. B., et al.] 1937. Annex to 5th report of committee on general nomenclature, etc., pp. 81–94. In: *The generic names of British insects*. Part 5, pp. 81–149. Royal Ent. Soc., London.
- Bequaert, J. 1920a. Scientific results of the Katmai Expedition of the National Geographic Society. *Ohio J. Sci.* 20: 292–297.
- _____. 1920b. Hymenoptera collected near Boston, Mass., with description of a variety of *Bombus affinis*. *Psyche, Camb.* 27: 6–12.
- _____. 1932. An arboreal nest of *Bombus fervidus* (Fabricius). *Bull. Brooklyn ent. Soc.* 27: 151.
- Bequaert, J., and O. E. Plath. 1925. Description of a new *Psithyrus*, with an account of *Psithyrus laboriosus*, and notes on bumble bees. *Bull. Mus. comp. Zool. Harv.* 67(6): 265–288, 2 figs.
- Berland, L. 1958. Nouvel atlas d'entomologie. Hyménoptères de France. *Edit. N. Boubée*, Paris, Vol. 2, Portaiguillon (fin.), 184 pp.
- Bernard, F. 1951. Super-famille des Apoidea ou abeille (pp. 1198–1257). In: *Traité de zoologie. Anatomie, Systématique, biologie*. Tome X (Fasc. II), Hyménoptéroïdes, etc., pp. 976–1948. Masson, Paris.
- Bertoni, A. de W. 1911. Contribucion á la biología de las avispas y abejas del Paraguay. *An. Mus. nac. B. Aires* 22 (ser. 3^a, t. 15): 97–146.
- Bethune, C. J. S. 1878. Insects of the northern parts of British America (Family Bombidae, pp. 117–118). *Can. Ent.* 10: 116–118. [A reprinted serial of Kirby's Fauna Boreali-Americana: *Insecta*.]
- _____. 1884. Insects of the northern parts of British America. From: Kirby's Fauna Boreali-Americana. *Idem., Can. Ent.* (1870–1882). 170 pp.
- Betts, A. D. 1920a. *Nosema* in bumble bees. *Bee World* 1: 171.
- _____. 1920b. The constancy of the pollen-collecting bee. *Ibid.* 2: 10–11.
- _____. 1935. *Idem. Ibid.* 16: 111–113.
- Bingefors, S., L. Eskilsson, and F. Friden. 1960. Insektsförekomst och frösättning i fröodlingar; Mälard–Hjälmarområdet år 1959. *Svensk Frötidsn.* 1: 11–15; *idem., ibid.* 2: 17–21.
- Bingham, C. T. 1894. On new and little-known Hymenoptera from India, Burma and Ceylon. *J. Bombay nat. Hist. Soc.* 8 (Pt. 3): 358–389, 2 pls.
- _____. 1896. New and little-known species of Indo-Malayan Hymenoptera, with a key to the genera of Indian Pompilidae, and a note on *Sphex flava* of Fabricius, and allied species. *Ibid.* 10 (Pt. 2): 195–216, 2 pls.
- _____. 1897. The fauna of British India. Hymenoptera, including Ceylon and Burma. Hymenoptera. Vol. 1, Wasps and bees, xxix + 579 pp., 4 pls.
- _____. 1908. XXXII. Notes on aculeate Hymenoptera in the Indian Museum. *Rec. Indian Mus.* 2: 347–368 (1908–09).
- Bischoff, H. 1923. In: *Biologie der Tiere Deutschlands*. Lief 8, Teil 42, Hymenoptera, II, p. 146. (Herausg., Dr. P. Schulz.)
- _____. 1927. *Biologie der hymenopteren (Eine naturgeschichte der hautflügler)*, vii + 598 pp. Springer, Berlin.

- _____. 1930a. Entomologische ergebnisse der Schwedischen Kamtschatka Expedition 1920–1922. 29 Bombinae (Hymen.). *Ark. Zool.* 21A(19): 1–6.
- _____. 1930b. [Bumblebees collected in the Alps.] In: Sitzungsberichte. *Mitt. dt. ent. Ges.*, E. V., 1(8): 115–116.
- _____. 1931. 4. Hymenoptera VII. Zur kenntnis einiger hummelnester aus dem Pamir. *Mitt. zool. Mus. Berl.* 16 (h. 6): 860–864.
- _____. 1935a. Gedanken zu einem natürlichen system der bienen (Hym. Apid.). *Dt. ent. Z.* (1934), pp. 324–331.
- _____. 1935b. Genus *Bombus* (Apidae, Hymen.). Wissenschaftliche ergebnisse der Niederlandischen Expedition in den Karakorum und die angrenzenden gebiete in den jahren 1922, 1925 und 1929/30. Bd. 1: 255–256. Dr. Ph. C. Visser u. Jenny Visser-Hooft, Leipzig.
- _____. 1936. Schwedisch-chinesische wissenschaftliche expedition nach den nordwestlichen provinzen Chinas. Hymen. 10, Bombinae. *Ark. Zool.* 27A(38): 1–27.
- _____. 1937. Hymenoptera Aculeata (excl. Formicidae und Halictinae) von den Kanarischen Iseln. *Commentat. biol.* (Helsingfors) 6(10): 1–3.
- Bischoff, H., and H. Hedicke. 1931. Ueber einige von Illiger beschriebene apiden (Hym.). *S.B. Ges. naturf. Freunde, Berlin*, Nrs. 8–10: 385–392 (1930).
- Blanchard, E. 1840. Histoire naturelle des animaux articulés, etc. (*Bombus*, pp. 403–404). Vol. 3, 672 pp., 72 pls. Edited by P. Dumenil, Paris.
- _____. 1844. Description des collections. Insectes recueillis à l'Himalaya, par Victor Jacquemont. In: *Voyage dans l'Inde*, pendant les années 1828–1832, par Victor Jacquemont, 4: 13–31.
- _____. 1868. Métamorphoses V des insectes moeurs et instincts. 715 pp. Baillière, Paris.
- Blüthgen, P. 1918. *Psithyrus vestalis* Geöffr. und *bohemicus* Seidl (*distinctus* Pérez) (Hym.). *Ent. Mitt.* 7: 188–197.
- _____. 1919. Die bienenfauna Pommerns. *Stettin. ent. Ztg* 80: 65–131.
- _____. 1920. Zu "Psithyrus vestalis" Geöffr. und *bohemicus* Seidl (*distinctus* Pérez) (Hym.). *Ent. Mitt.* 9: 43–44.
- _____. 1925. Beiträge zur kenntnis der hymenopterenfauna des Saaletals. *Stettin. ent. Ztg* 85 (hfn. 1–2): 137–172.
- _____. 1929. *Idem*. 1. Nachtrag. *Ibid.* 90 (hfn. 1–2): 79–88.
- _____. 1937. *Idem*. 2. Nachtrag. *Ibid.* 98 (hf. 2): 232–239.
- _____. 1942. Die beinenfauna Pommerns. *Ibid.* 103: 81–91.
- Boer, P. J. Den, and D. A. Vlengel. 1949. Ethologische waarnemingen ann een nest van *Bombus e. equestris* (F.). *Tijdschr. Ent.* 91: 121–134 (1948).
- Bohart, G. E. 1947. Wild bees in relation to alfalfa pollination. *Fm Home Sci.* 8(4): 13–14.
- _____. 1957. Pollination of alfalfa and red clover. *A. Rev. Ent.* 2: 355–380.
- Bohart, G. E., and G. F. Knowlton. 1952. Yearly population fluctuation of *Bombus morrisoni* at Fredonia, Arizona. *J. econ. Ent.* 45: 890–891.
- Boiko, A. K. 1948. [New type of myiasis in bumble bees.] *Akad. nauk SSSR, Dok.* 61: 423–424. (In Russian.)
- _____. 1949. Senotainioz pchel. "Bolezni Pchel." XXVII Sess., Vet. Sect., All-Union Lenin Agric. Acad. 168: 115–135. (In Russian.)
- Bols, J. H. 1937. Observations on *Bombus* and *Psithyrus*, especially on their hibernation. *Proc. R. ent. Soc. Lond.*, Ser. A, 12(4–6): 47–50, pl. 1.
- Bordas, L. 1893a. Sur l'appareil génital mâle des hyménoptères. *C. r. Acad. Sci.* 117: 746–748.
- _____. 1893b. Appareil génital mâle des hyménoptères de la tribu des Bombinae. *C. r. Soc. Philom.*, No. 4, pp. 2–4.
- _____. 1894. Appareil génital mâle des Bombinae. *Bull. Soc. philomath. Paris* (8) 6: 41–58.
- Boulange, H. 1924. Recherches sur l'appareil copulateur des hyménoptères et spécialement des chalastrogastres. *Mém., Trav. Facul. Cathol. Lille*, Fasc. 28, 444 pp., pls. 1–3.
- Bowles, G. J. 1879. Notes on the humble bees. [10th] *Rep. ent. Soc. Ont.* (Canada), pp. 31–33.
- Bradley, A. E. 1922. Variation in the genus *Psithyrus* Lep. in the neighbourhood of Leeds. *Entomologist's mon. Mag.* 58: 141–142.
- Bradley, J. C. 1921 (1920). Some features of the hymenopterous fauna of South America. *Acta Soc. sci. Chile* (Santiago) 30: 51–74.

- Brauns, H. 1891. Aus der fauna Meklenburg's (Schluss). *Ent. Nachr.* 17(8): 119-125. (Re: Nest of *Bombus cognatus* Steph., and brief remarks on some other species, pp. 120-121.)
- Brèthes, J. 1920. Insectes du Pérou. *An. Soc. sci. argent.* 89: 27-54.
_____. 1926. Coleopteres et hymenopteres du Cuzco (Peru). *Revta chil. Hist. nat.* 29: 44-48.
- Brian, A. D. 1951a. The pollen collected by bumble-bees. *J. Anim. Ecol.* (Lond.) 20: 191-194.
_____. 1951b. Brood development in *Bombus agrorum* (Hym., Bombidae). *Entomologist's mon. Mag.* 87: 207-212.
_____. 1952. Division of labour and foraging in *Bombus agrorum* Fabricius. *J. Anim. Ecol.* (Lond.) 21: 223-240, 1 fig.
_____. 1954. The foraging of bumble bees. *Bee World* 35: 61-81.
_____. 1957. Differences in the flowers visited by four species of bumble-bees and their causes. *J. Anim. Ecol.* (Lond.) 26: 71.
- Brian, M. V., and A. D. Brian. 1948. Regulation of oviposition in social Hymenoptera. *Nature, Lond.* 161: 854-856.
- Brinck, P., and K. G. Wingstrand. 1949. The mountain fauna of the Virihauke area in Swedish Lapland. I: General account. *K. fysiogr. Sällsk. Handl.*, N.F., 60(2): 70 pp., 25 figs.
- Brinck, P., and H. Holgersen. 1951. Hymenoptera Aculeata (pp. 60-68). In: Brinck, Wingstrand et al., The mountain fauna of the Virihauke area in Swedish Lapland, II: Special account. *Ibid.* 61(2): 173 pp., 13 figs.
- Brischke, C. G. A. 1887. Hymenoptera Aculeata der provinzen West- und Ostpreussen. Neu-bearbeitet. *Schr., naturf. Ges., Danzig* 7 (h. 1): 85-107 (pp. 85-86).
- Brittain, W. H., and D. E. Newton. 1933. A study in the relative constancy of hive bees and wild bees in pollen gathering. *Can. J. Res.* 9: 334-349.
- Britton, N. L. 1884. *Dicentra* punctured by bumble-bees. *Bull. Torrey bot. Club* 11: 66-67.
- Britton, W. E. 1920. Check-list of the insects of Connecticut. *Conn. St. geol. nat. Hist. Surv. Bull.* 31, 307 pp.
- Brodie, W., and J. E. White. 1883a. Check-list of the insects of the Dominion of Canada. *Nat. Hist. Soc., Toronto*, IV + 67 pp.
_____. 1883b. Label list of the insects of the Dominion of Canada. *Ibid.*, 66 + 3 unnumb. pp.
- Buckell, E. R. 1951. Records of bees from British Columbia; Bombidae. *Proc. ent. Soc. Br. Columb.* 47: 7-24, 1 fig.
- Bugnion, E. 1927. La biologie des bourdons. *Riv. Sci. (Nice)* 14: 1-33.
- Bundy, W. E. 1876. Flowers of the golden currant perforated by bumble-bees. *Am. Nat.* 10: 238.
- Burck, W. 1891. Ueber das anbohren der blumenkrone durch bienen und hummeln. *Annls Jard. bot. Buitenz.* 10: 81-119.
- Burgelhaus, F. H. 1901. Fertilization of the closed gentian by bumblebees. *Plant World* 4: 33.
- Burks, B. D. 1951. Tribe Bombini (pp. 1247-1255). In: Muesebeck et al., Hymenoptera of America north of Mexico. Synoptic catalog. *Agriculture Monogr.* 2: 1-1420. U.S. Dep. Agric., Washington.
- Burtt, B. D. 1923. The occurrence of *Bombus cullumanus* ♂ ♂ near Reading. *Entomologist's mon. Mag.* 59: 91-92.
- Busnel, R. G., and A. Drilhon. 1941. La riboflavine (vitamin B₂) dans la glande a venin des hymenopteres. *C. r. Soc. biol. (Paris)* 135: 1008-1009.
- Buttel-Reepen, H. v. 1903a. Die phylogenetische entstehung des bienenstaates, sowie mitteilungen zur biologie der solitären und sozialen apiden. *Biol. Zbl.* 23: 4-31, 89-108, 129-154, 183-195.
_____. 1903b. Die stammesgeschichtliche entstehung des bienenstaates, sowie beiträge zur lebensweise der solitären u. sozialen bienen (hummeln, meliponinen etc.). 138 pp. Thieme, Leipzig.
- _____. 1906. Apistica, beiträge zur systematik, biologie, sowie zur geschichtlichen und geographischen verbreitung der honigbiene (*Apis mellifica* L.), ihrer varietäten und der übrigen Apis-arten. *Mitt. zool. Mus. Berl.* 3(2):[117]-201.
- _____. 1907. Zur Psychobiologie der hummeln, I. *Biol. Zbl.* 27: 279-587, 604-613.

- _____. 1914. Dysteleologen in der natur. (Zur psychobiologie der hummeln, II.) *Ibid.* 34: 664-684.
- _____. 1915. Leben und wesen der bienen. xii + 300 pp., 1 table. Viehweg u. Sohn, Braunschweig.
- Cameron, P. 1903. Descriptions of new species of Hymenoptera taken by Mr. Edward Whymper on the "Higher Andes of the Equator." *Trans. Am. ent. Soc.* 29: 225-238.
- Campbell, J. 1870. Queen humble-bee. *Am. Ent., Bot.* 2(10): 303.
- Carl, G. C., C. J. Guiguet, and G. A. Hardy. 1950. Biology of the Scott Island Group, Br. Columbia. *Prov. Mus. nat. Hist., Br. Columb.* 1950 Rep., pp. 21-63.
- Carvo, E. 1950. Catalogue des hyménoptères du Département du Nord et régions limitrophes. I: Aculeates. *Suppl., Bull. Soc. ent. N. Fr.*, No. 52, 86 pp.
- Cederhjelm, J. 1798. Faunae Ingricæ prodromus, etc. XVIII + 348 pp., 3 col. pls. Hartknoch, Lipsiae.
- Chambers, V. H. 1949. The Hymenoptera Aculeata of Bedfordshire. *Trans. Soc. Br. Ent.* 9 (Pt. 4): 197-252.
- Chandler, L. 1950. The Bombidae of Indiana. *Proc. Indiana Acad. Sci.* 60:167-177.
- _____. 1954. Color variation in some common species of bumble bees (Hymenoptera, Bombidae). *Ibid.* 63: 165-167 (1953).
- _____. 1956. Parallel color variation in *Bombus impatiens* Cr. and *Bombus bimaculatus* Cr. (Hymenoptera, Apidae). *Ibid.* 65: 116-117 (1955).
- Chiu, S. C. 1948. Revisional notes on the Formosan bombidfauna (Hymenoptera). *Notes Ent. chin.* (Mus. Heude) (Shanghai) 12(7): 57-81, 4 figs.
- Cholodkovsky, N. 1884. Ueber den hummelstachel und seine bedeutung für systematik. *Zool. Anz.* 7: 312-316.
- Christ, J. L. 1791. Naturgeschichte, klassification, und nomenclatur der insekten vom bienen, wespen, und ameisengeschlecht. 576 pp., 60 pls. (col.).
- Christy, R. M. 1883. On the methodic habits of insects when visiting flowers. *J. Linn. Soc. (zool.)* 17: 186-194.
- Church, N. S. 1960a. Heat loss and the body temperatures of flying insects. I: Heat loss by evaporation of water from the body. *J. exp. Biol.* 37(1): 171-185, pl. 2.
- _____. 1960b. Heat loss and the body temperatures of flying insects. II: Heat conduction within the body and its loss by radiation and convection. *Ibid.* 37(1): 186-212, pl. 3.
- Claude-Joseph, F. 1926. Recherches biologiques sur les hyménoptères du Chile (Mellifères). *Annls Sci. nat., Zool.*, Ser. 10, 9: 113-268.
- Clements, F. E., and F. L. Long. 1923. Experimental pollination. An outline of the ecology of flowers and insects. Carnegie Instn., vii + 274 pp., 17 pls. Washington.
- Cockerell, T. D. A. 1890. Notes on the insect fauna of high altitudes in Custer County, Colorado. *Can. Ent.* 22: 37-39.
- _____. 1898a. Tables for the determination of New Mexico bees. *Bull. Univ. N. Mex.* 1(1): 1-71.
- _____. 1898b. Notes on bees taken at Albuquerque, New Mexico, in September, 1897. *Ibid.* 1(1): 72-73.
- _____. 1898c. XXXVII-New North-American insects. Including: "IV-A new humble bee from the Pribilof Islands," (pp. 324-326). *Ann. Mag. nat. Hist.*, Ser. 7, 2: 321-331.
- _____. 1899a. Catálogo de las abejas de Mexico. Biblio. Agric., Secret. de Fomento, Mexico, 20 pp.
- _____. 1899b. Notes on American bees. *Entomologist* 32: 154-159.
- _____. 1899c. The bees of Kansas. *Ent. News* 10: 3-4.
- _____. 1900. Observations on bees collected at Las Vegas, New Mexico, and in adjacent mountains. *Ann. Mag. nat. Hist.*, Ser. 7, 5: 401-416.
- _____. 1901. In: Some insects of the Hudsonian zone in New Mexico. III: Hymenoptera, Apoidea. *Psyche, Camb.* 9: 163-164.
- _____. 1902a. Hymenoptera of southern California, I. *Bull. Sth. Calif. Acad. Sci.* 1(6): 70.
- _____. 1902b. Flowers and insects in New Mexico. *Am. Nat.* 36(430): 809-817.
- _____. 1903a. A catalogue of the bees of California. *Psyche, Camb.* 12: 74-78.
- _____. 1903b. Footnote to W. P. Cockerell, Trip to Truchas Peaks. *Am. Nat.* 37: 887-891 (p. 891). (q.v.)
- _____. 1904a. Some bees from San Miguel County, New Mexico. *Entomologist* 37: 5-9.

- 1904b. The bees of southern California, V. *Bull. Sth. Calif. Acad. Sci.* 3(6): 86-90.
- 1905a. New bees from Colorado. *Ent. News* 16: 270-272.
- 1905b. Descriptions and records of bees, I. *Ann. Mag. nat. Hist.*, Ser. 7, 16: 216-225.
- 1905c. *Idem.* III. *Ibid.*, Ser 7, 16: 301-308.
- 1905d. Descriptions and records of bees, IV. *Ibid.*, Ser 7, 16: 392-403. 392-403.
- 1905e. Tables for the separation of some bees of the genera *Coelioxys* and *Colletes*. *Psyche, Camb.* 12: 85-90.
- 1906a. New Rocky Mountain bees, and other notes. *Can. Ent.* 38: 160-166.
- 1906b. The bees of New Mexico. *Trans. Am. ent. Soc.* 32: 289-314.
- 1906c. The bees of Florissant, Colorado. (Art. XXV). *Bull. Am. Mus. nat. Hist.* 22: 419-455.
- 1906d. Fossil Hymenoptera from Florissant, Colorado. *Bull. Mus. comp. Zool. Harv.* 50(2): 33-58.
- 1906e. Descriptions and records of bees, XII. *Ann. Mag. nat. Hist.*, Ser 7, 18: 69-75.
- 1907a. New American bees, IV. *Entomologist* 40(528): 97-100.
- 1907b. The bees of Boulder County, Colorado. *Univ. Colo. Stud.* 4: 239-259.
- 1908a. Descriptions and records of bees, XIX. *Ann. Mag. nat. Hist.*, Ser 8, 1: 337-344.
- 1908b. Descriptions and records of bees, XX. *Ibid.*, Ser 8, 2: 323-334.
- 1909a. Two new bees. *Can. Ent.* 41: 35-37.
- 1909b. Some European fossil bees. *Entomologist* 42: 313-317.
- 1909c. Descriptions of Hymenoptera from Baltic amber. (*In: Mitt. geol.-palaeont. Inst., Univ. Königs.*) *Schr. phys.-ökön. Ges. Königsb.* (Jb.) 50 (h. 1): 1-20.
- 1909d. Some additional bees from Prussian amber. *Ibid.* 50 (h. 1): 21-25.
- 1909e. Descriptions and records of bees, XXIII. *Ann. Mag. nat. Hist.*, Ser 8, 4: 393-404.
- 1910a. *Idem.* XXVIII. *Ibid.*, Ser. 8, 5: 409-419.
- 1910b. *Idem.* XXIX. *Ibid.*, Ser. 8. 5: 496-506.
- 1910c. Some bees from Eldora, Colorado. *Psyche, Camb.* 17(6): 244-247.
- 1910d. Some bees from high altitudes in the Himalaya Mountains. *Entomologist* 43: 238-242.
- 1910e. An introduction to the study of Rocky Mountain bees. *Univ. Colo. Stud.* 7(3): 179-187, 50 figs.
- 1910f. The bee fauna of Calgary, Alberta. *Can. Ent.* 42: 25.
- 1910g. Some insects collected in northern Colorado in 1909. *Univ. Colo. Stud.* 7: 126-130.
- 1911a. The humble bees of Formosa. *Entomologist* 44: 100-102.
- 1911b. Bees from the Himalaya Mountains. *Ibid.* 44: 176-177.
- 1911c. Bees in the collection of the United States National Museum, I. *Proc. U.S. natn. Mus.* 39: 635-658.
- 1912a. New bees from Brazil. *Psyche, Camb.* 19:41-61.
- 1912b. Some bees from Guatemala. *Ibid.* 19: 105-106.
- 1912c. Descriptions and records of bees, XLV. *Ann. Mag. nat. Hist.*, Ser. 8, 10: 21-31.
- 1912d. Collecting bees at Gualan, Guatemala. *Can. Ent.* 44: 277-282.
- 1912e. Descriptions and records of bees, XLVII. *Ann. Mag. nat. Hist.*, Ser. 8, 10: 484-494.
- 1912f. Animals and plants described as new from Colorado in 1911. *Univ. Colo. Stud.* 9(2-3): 75-89.
- 1913a. Descriptions and records of bees. L. *Ann. Mag. nat. Hist.*, Ser. 8, 11: 273-283.
- 1913b. *Idem.* LIII. *Ibid.*, Ser 8, 12: 103-110.
- 1913c. Remarks on fossil insects. *Proc. ent. Soc. Wash.* 15(3): 123-126.
1914. Bees from Ecuador and Peru. *Jl N.Y. ent. Soc.* 22: 306-328.
- 1915a. Notes on orchids. *Bot. Gaz.* 59(4): 331-333.
- 1915b. Animals and plants described as new from Colorado in 1912, 1913 and 1915. *Univ. Colo. Stud.* 11(4): 213-251.
- 1915c. Notes on some bees from Virginia. *Proc. ent. Soc. Wash.* 17(1): 3-5.

- 1915d. Descriptions and records of bees, LXVII. *Ann. Mag. nat. Hist.*, Ser. 8, 15: 529-537.
- 1915e. *Idem*. LXX. *Ibid.* Ser. 8, 16: 482-489.
1916. Bees from the northern peninsula of Michigan. *Mus. Zool. Univ. Mich. Occ. Pap.* 23, 10 pp.
- 1917a. Two new humble-bees from China. *Entomologist* 50: 265-266.
- 1917b. New social bees. *Psyche, Camb.* 24(4): 120-128.
1918. Bees from British Guiana. *Bull. Am. Mus. nat. Hist.* 38: 685-690.
- 1919a. The social bees of the Philippine Islands. *Philipp. J. Sci.* 14(1): 77-81.
- 1919b. The bees of the Rocky Mountain National Park (Hymenop.). *Ent. News* 30: 286-294.
- 1919c. The bees of Gold Hill, Colorado. *Can. Ent.* 51(12): 271-273.
- 1919d. The bees of Peaceful Valley, Colorado. *Jl N.Y. ent. Soc.* 27(4): 298-300.
- 1919e. Descriptions and records of bees, LXXXVII. *Ann. Mag. nat. Hist.*, Ser. 9, 4: 355-360.
1920. Supplementary notes on the social bees of the Philippine Islands. *Philipp. J. Sci.* 16(6): 631-632.
1921. Descriptions and records of bees, XCI. *Ann. Mag. nat. Hist.*, Ser. 9, 8: 359-368.
1922. Bees in the collection of the U.S. National Museum. *Proc. U.S. nat. Mus.* 60(2413): 1-20.
1923. A bee-collecting trip across the plains (Hym.: Apoidea, Sphecoidea). *Ent. News* 34: 45-50.
1924. A bee collecting trip to Chimney Rock, Wyoming. *Ibid.* 35: 347-351.
1925. Some bees from the Pyrenees. *Entomologist* 58: 157-160.
1928. Bees collected in Siberia in 1927. *Ann. Mag. nat. Hist.*, Ser. 10, 1: 345-361.
- 1929a. Descriptions and records of bees, CXIV. *Ibid.*, Ser. 10, 3: 195-204.
- 1929b. *Idem*. CXVIII. *Ibid.*, Ser. 10, 4: 142-152.
- 1929c. Some results of a journey to Kaieteur Falls, British Guiana. *Ibid.*, Ser. 10, 4: 439-444.
- 1930a. The bees of Australia. *Aust. Zool.* 6(2): 137-156 (cont'd.).
- 1930b. Bees from Mesa Verde, Colorado, in the American Museum of Natural History. *Am. Mus. Novit.*, No. 397, 8 pp.
- 1930c. Descriptions and records of bees, CXXII. *Ann. Mag. nat. Hist.*, Ser. 10, 5: 156-163.
- 1930d. *Idem*. CXXXIII. *Ibid.*, Ser. 10, 5: 405-411.
- 1931a. II: Insects from the Miocene (Latah) of Washington. *Ann. ent. Soc. Am.* 24: 307-312, pl. 1.
- 1931b. Bees obtained by Professor Claude R. Kellogg in the Foochow district, China, with new records of Philippine Bombidae. *Am. Mus. Novit.*, No. 480, 7 pp.
- 1931c. Descriptions and records of bees, CXXVI. *Ann. Mag. nat. Hist.*, Ser. 10, 7: 273-280.
1933. Bees collected by Mrs. Maurice T. James in Pingree Park, Colorado. *Ann. ent. Soc. Am.* 26(1): 40-44.
- 1936a. Bees from northern California. *Pan-Pacif. Ent.* 12: 133-164.
- 1936b. The entomology of Prince Albert National Park, Saskatchewan. *Can. Ent.* 68: 85-88.
1937. Bees from San Miguel Island, California. *Pan-Pacif. Ent.* 13: 148-157.
- 1938a. Bees from Prince Albert Park, Saskatchewan. *Am. Mus. Novit.*, No. 983, pp. 1-4.
- 1938b. Bees collected on the California islands in the spring of 1938. *Trans. San Diego Soc. nat. Hist.* 9(9): 37-38.
1939. Life and habits of bumblebees. *Scient. Mon.* (December) 49: 554-557.
1949. Bees from Central America, principally Honduras. *Proc. U.S. nat. Mus.* 98(3233): 429-490.
- Cockerell, T. D. A., and J. McNary. 1902. Notes on the mouthparts of *Bombus*. *Can. Ent.* 34: 71-72.
- Cockerell, T. D. A., and W. Porter. 1899a. Contributions from the New Mexico Biological Station. VIII: The New Mexico bees of the genus *Bombus*. *Ann. Mag. nat. Hist.*, Ser. 7, 4: 386-393.
- 1899b. *Idem*. VII: Observations on bees, with descriptions of new genera and species. *Ibid.*, Ser. 7, 4: 403-421.

- Cockerell, T. D. A., et al. 1901. Some insects of the Hudsonian Zone in New Mexico, III. *Psyche, Camb.* 9: 163-164.
- Cockerell, W. P. 1903a. The red-tailed bumble-bee's nest. *Birds and Nature* 13: 17-18.
- _____. 1903b. A trip to the Truchas Peaks, New Mexico. *Am. Nat.* 37: 887-891.
- _____. 1917. Collecting bees in southern Texas. *Jl. N.Y. ent. Soc.* 25(3): 187-193.
- Cockle, J. W. 1913. Strange action of *Bombus occidentalis*. *Can. Ent.* 45: 347-348.
- Comba, M. 1960. Contributo alla conoscenza dei *Bombus* Latr. e *Psithyrus* Lep. delle Valli del Pellice, Angrona, Germanasca (Alpi Cozie) (Hymenoptera, Apidae). *Fragm. ent.* (Inst. Naz. Ent.), 3 (fasc. 8): 163-201.
- Coville, F. V. 1889. Note. In: Proceedings, Entomological Society, Washington. *Insect Life* 1: 295.
- _____. 1890. Notes on bumble-bees. *Proc. ent. Soc. Wash.* 1: 197-203.
- Craig, C. H. 1953. *Psithyrus insularis* (Sm.) in a nest of *Bombus ternarius* Say (Hymenoptera: Bombidae). *Can. Ent.* 85: 311-312.
- Crawford, J. C. 1906. Some Costa Rican bees. *Trans. Am. ent. Soc.* 32: 157-163.
- Crawford, J. C., and M. Swenk. 1903. A new *Bombus* from Costa Rica. *Can. Ent.* 35: 268.
- Cresson, E. T. 1863a. List of the North American species of *Bombus* and *Apathus*. *Proc. ent. Soc. Philad.* 2: 83-116.
- _____. 1863b. In: Written communications. *Ibid.* 2: 164-166.
- _____. 1864. Descriptions of several new species of North American Apidae. *Ibid.* 3: 38-43.
- _____. 1872. Hymenoptera Texana. *Trans. Am. ent. Soc.* 4: 153-292.
- _____. 1874. Descriptions of new Hymenoptera. *Ibid.* 5: 99-102.
- _____. 1875. Report upon the collections of Hymenoptera made in portions of Nevada, Utah, Colorado, New Mexico, and Arizona, during the years 1872, 1873 and 1874. In: Rep. U.S. Geograph. Explor. & Surv. (Wheeler), 100th Merid., Zool-Insects, Vol. 5, pp. 707-728, pls. xxxiii, xxxiv.
- _____. 1876. List of Hymenoptera collected by J. Duncan Putnam, of Davenport, Iowa, with descriptions of two new species. *Proc. Davenport Acad. nat. Sci.* 1: 206-211, pl. xxxv.
- _____. 1878. Descriptions of new species of North American bees. *Proc. Acad. nat. Sci. Philad.*, pp. 181-221.
- _____. 1879a. Catalogue of North American Apidae. *Trans. Am. ent. Soc.* 7: 215-232.
- [_____.] 1879b. Hymenoptera (p. 159). In: Kumlien et al., Contributions to the natural history of Arctic America, the Howgate Polar Expedition, 1877-78. *U.S. nat. Mus. Bull.* 15, 179 pp. (*Smithson. misc. Collns* 23 (Art. 5): 1-179.)
- _____. 1879c. Descriptions of new North American Hymenoptera in the collection of the American Entomological Society. *Trans. Am. ent. Soc.* 7: 201-214.
- _____. 1887. Synopsis of the families and genera of Hymenoptera of America North of Mexico. *Ibid.*, Suppl. vol., vi + 350 pp.
- _____. 1916. The Cresson types of Hymenoptera. *Mem. Am. ent. Soc.* 1, 1-141.
- Cresson Jr., E. T. 1928. The types of Hymenoptera in the Academy of Natural Sciences of Philadelphia other than those of Ezra T. Cresson. *Ibid.* 5: 1-90.
- Criddle, [N.J.], et al. 1924. The entomological record, 1923. 54th *Rep. ent. Soc. Ont.* (Canada), pp. 87-102 (1923).
- Cumber, R. A. 1949a. Humble-bee parasites and commensals found within a thirty mile radius of London. *Proc. R. ent. Soc. Lond.* (A) 24 (Pts. 10-12): 119-127.
- _____. 1949b. The biology of humble-bees (*Bombus*), with special reference to the production of the worker caste. *Trans. R. ent. Soc. Lond.* 100(1): 1-45.
- _____. 1949c. Larval specific characters and instars of English Bombidae. *Proc. R. ent. Soc. Lond.* (A) 24: 14-19, 6 figs.
- _____. 1949d. An overwintering nest of the humble-bee *Bombus terrestris* (L.) (Hymenoptera, Apidae). *N.Z. Sci. Rev.* 7: 96-97.
- _____. 1953a. Life cycle of the humble bee. *Ibid.* 11: 92-98.
- _____. 1953b. Some aspects of the biology and ecology of humble-bees upon the yields of red clover seed in New Zealand. *N.Z. J. Sci. Tech. Bull.* 34, pp. 227-240, 1 fig.
- _____. 1954. The life-cycle of humble-bees in New Zealand. *Ibid.*, *Bull.* 36, pp. 95-107.
- _____. 1959. The insect complex of sown pastures in the North Island. V. The Hymenoptera as revealed by summer sweep-sampling. *N.Z. J. Agric. Res.* 2(5): 874-897.
- Curtis, J. 1833. British entomology. Vol. 10, pp. 434-481a and accomp. pls. (pl. 468).

- _____. 1835a. Insects. Descriptions, etc. of the insects brought home by Commander James Clark Ross (pp. lix-lxxx, 1 pl.). In: Appendix to the narrative of a second voyage in search of a north-west passage, etc., by Sir John Ross, London, 1835.
- _____. 1835b. British entomology. Vol. 12, pp. 530-577 and accomp. pls. (pl. 564).
- Curtis, J., A. H. Haliday, and F. Walker. 1836. XV: Descriptions, etc. of the insects collected by Captain P. P. King, R. N., F. R. S., in the survey of the Straits of Magellan. *Trans. Linn. Soc., Lond.* 17 (Pt. 3): 315-359.
- Dahlbom, A. G. 1832. *Bombi Scandinaviae monographice tractato et iconibus illustrati.* 55 pp., 1 pl. (37 figs.), Londini Gothorum.
- _____. 1839-40. *Synopsis hymenopterologiae Scandinavicae.* 104 pp., 1 tab., 5 pls., Berling, Lund.
- Dalla Torre, K. W. [C. G.] v. 1878. Beitrag zur kenntnis der hymenopterenfauna Tirols. *Naturw. Abh., Innsbruck* 2: 259-278.
- _____. 1880. Unsere hummel- (*Bombus*) arten. *Der Naturhist.* 2(4): 30; *ibid.* 2(5): 40-41.
- _____. 1882. Bemerkungen zur gattung *Bombus* Latr., II. *Ber. naturw.-med. Ver., Innsbruck* 12: 14-31.
- _____. 1885. Zur biologie von *Bombus Gerstaeckeri* Mor. (*B. opulentus* Gerst.). *Zool. Anz.* 8: 691-693.
- _____. 1886. Heterotrophie. Ein beitrag zur insektenbiologie. *Kosmos* 18: 12-19.
- _____. 1890. Hymenopterologische notizen. *Wien. ent. Ztg* 9: 139.
- _____. 1896. Catalogus Hymenopterorum. X, Apidae. viii + 643 pp. Lipsiae.
- Dalla Torre, K. W. [C. G.] v., and H. Friese. 1894. Synonymischer katalog der Europäischen schmarotzerbienen. *Ent. Nachr.* 20(3): 33-43.
- _____. 1895. Synonymischer katalog der Europäischen sammelbiene. *Ibid.* 21: 21-26, 37-50, 53-62, 69-80.
- Darwin, C. 1841. Humble-bees. *Gdnrs' Chron.*, p. 550.
- _____. 1876. The effects of cross and self fertilisation in the vegetable kingdom. viii + 482 pp. Murray, London.
- Davidson, A. 1894. On the parasites of wild bees in California. *Ent. News* 5: 170-172.
- _____. 1911. The bumble bees of Los Angeles. *Bull. St. Calif. Acad. Sci.* 10: 66.
- De Geer, C. 1773. Mémoires pour servir à l'histoire des insectes. Vol. 3, viii + 696 pp., 44 pls. Hesselberg, Stockholm.
- Delmas, R. 1962. Notes zoogéographiques et systématiques sur les Bombidae. 1: La *Bombus bradmannicus* Vogt des Alpes Français. *Annls Abeille* 5(3): 175-179.
- Dias, D. 1953. The alimentary canal of *Bombus* (Hymenoptera: Bombidae). 51 pp., 45 figs., unpubl. M. S. Thesis, Cornell Univ.
- _____. 1957. Comparative notes on the ventral nerve cord of certain Apinae bees. *Rev. Agric.* 32(4): 279-289.
- _____. 1958a. Contribuição para o conhecimento da bionomia de *Bombus incarum* Franklin da Amazônia (Hymenóptera: Bombidae). *Revta bras. Ent.* 8: 1-20, 10 pls.
- _____. 1958b. Abnormal segmentation in "Bombus" affecting abdominal sternites, musculature and nerve cord (Hymenoptera, Apoidea). *Revta bras. Biol.* 18(4): 391-396.
- _____. 1960a. Nota sobre um ninho de *Bombus* construído acima do Chao (Hymenoptera, Apoidea). *Revta bras. Ent.* 9: 151-156.
- _____. 1960b. Procedures for handling preserved bumblebee specimens for population studies. *Turtox News* 38(10): 252-255.
- Didden, C. H. 1948. Merkwaardige behuizing van *Bombus agrorum* F. *Ent. Ber., Amst.* 12: 208-209.
- Dimmock, G. 1886. *Sphaerularia* in America. *Am. Nat.* 20: 73-75.
- Dittrich, R. 1886. Verzeichnis der in Schlesien bisher beobachteten *Bombus*-arten. *Z. Ent., N.F.*, Hft. 11, pp. 12-13.
- _____. 1903. Verzeichnis der bisher in Schlesien aufgefundenen Hymenoptera. 1, Apidae. *Z. Ent. N.F.*, Hft. 28, pp. 21-54.
- Doflein, F. 1921. Mazedonien. Erlebnisse und beobachtungen eines naturforchers im gefolge des Deutschen Heeres. VIII + 592 pp., 279 figs., 4 col. pls., 12 tabs. Fischer, Jena. (pp. 230, 372-374, 378, 588, 590).
- Donisthorpe, H. 1920. The phoresy of *Antherophagus*. *Entomologist's Rec.* 32(10): 181-187.
- Dover, C. 1922. A note on bees of the genera *Xylocopa* and *Bombus* in the Indian Museum. *Rec. Indian Mus.* 24 (Pt. 1): 88-89.
- Dozier, H. L. 1920. An ecological study of hammock and piney woods insects in Florida. *Ann. ent. Soc. Am.* 13: 325-380.

- Drenowski (Drenovsky), A. K. 1934. Beitrag zur insektenfauna von Bulgarien und Mazedonien. *Mitt. bulg. ent. Ges., Sofia* 8: 174–182. (pp. 176–178.)
- Drewsen, C. 1838. Bomborum psithyrorumque Daniae enumeratio critica. 8 pp., 1 pl., Haynae. (Separate of Drewsen and Schiødte, 1838.)
- Drewsen, C., and J. Schiødte. 1838. Fortegnelse over de Danske arter af slaegerne *Bombus* og *Psithyrus*. *Kröyer's Naturh. Tidsskr.* 2 (h. 2): 105–126, 1 pl. (Extract: Verzeichniss der Dänischen arten der gattungen *Bombus* und *Psithyrus*; von Chr. Drewsen und J. Schiødte. *Isis*, H. 5, cols. 325–331, 1841.)
- Ducke, A. 1898. Die bienenfauna Österreichisch Schlesiens. *Ent. Nachr.* 24(9): 129–145.
- _____. 1901. Beobachtungen über blütenbesuch, erscheinungszeit etc. der bei Para vorkommenden bienen. *Z. syst. Hym. Dipt.*, H. 1, pp. 25–32; *ibid.*, H. 2, pp. 49–67.
- _____. 1902. *Idem*. *Allg. Z. Ent.* 7: 321–326, 360–368, 400–405, 417–422. (pp. 325, 418.)
- _____. 1910. Contribution à la connaissance de la faune hyménoptérologique du Nord-Est du Brésil. *Ill. Rev. Ent., Caen* 28(3): 78–96, 97–122.
- _____. 1912. Die natürlichen bienengenera Südamerikas. *Zool. Jb., abt. syst.* 34: 51–116.
- Dufour, L. [J. M.]. (1836) 1837. Recherches sur quelques entozoaires et larves parasites des insectes orthoptères et hyménoptères. *Ann. Sci. Nat.* 7 (2 ser.): 5–20, pl. 1, A-figs. 1–16, B–1, 2, 2' and 2".
- Dumbleton, L. J. 1949. Bumble-bee species (*Bombus* spp.) in New Zealand. *N.Z. J. Sci. Tech.* 29: 308–312, 1 fig., (1948).
- Duncan, J. 1840. The natural history of bees. In: Jardine, Naturalist's Library, Ent., Vol. 6: viii + pp. [17]–301, 30 pls. Lizars, Edinburgh; Highly, and Curry, jun., London.
- Dunning, J. W. 1884. (Note on the early importation of humble-bees into New Zealand.) *Trans. R. ent. Soc. Lond.*, p. iii (Proceedings).
- _____. 1886. ("The importation of humble-bees into New Zealand".) *Ibid.*, pp. xxxii–xxxiv (Proceedings).
- Dusmet y Alonso, J. M. 1948–49. Los ápidos de Espaná, V. *Mem. R. Soc. Esp. Hist. nat., Madrid*, Tomo extraord. 1921, pp. 177–212.
- Dutilly, A. 1946. A list of insects of the Mackenzie River Basin. *Can. Fld Nat.* 60(2): 35–44.
- Dylewska, M. 1957. The distribution of the species of genus *Bombus* Latr. in Poland (an outline). *Acta zool. cracov.* 2(12): 259–278.
- _____. 1958. The *Bombus* Latr. and *Psithyrus* Lep. fauna of the Polish part of the Tatry Mountains. *Ibid.* 3(5): 138–197.
- Eidmann, M. 1935. Zur kenntnis der insektenfauna Südlabrador. 4: Beitrag zur kenntnis der fauna von Südlabrador, insbesondere des flussgebietes des Matamek River. *Arb. morph. taxon. Ent. Berl.* 2(2): 81–105.
- Ekstam, O. 1894. Zur kenntnis der blütenbestäubung auf Novaja Semlja. *Öfvers. K. VetenskAkad. Förh.* 2: 79–84.
- _____. 1897. Einige blütenbiologische beobachtungen. *Tromsø Mus. Årsh.* 18: 109–198 (1895).
- Elfving, R. 1958. Apidologiska meddelanden. *Notul. Ent.* 38(3): 90.
- _____. 1960a. Die hummeln und schmarotzerhummeln Finlands. *Fauna fenn.* 10: 1–43.
- _____. 1960b. Suomen kimalaiset. *Luonnon Tutk.* 64: 143–149.
- _____. 1964. Tärkeimmät kimalaisemme ja niiden määrittäminen. (The most important bumblebee species in Finland and their identification.) *Maatalous Koetoim.* (Helsinki) 18: 283–291. (In Finnish with summaries in German and English.)
- Eneis, W. 1935. Die hummelarten Schleswig-Holsteins. "Heimat" (Feb.), pp. 69–74.
- _____. 1941. Ueber einige seltenere hummeln und kuckuckshummeln Schleswig-Holsteins. *S. B. Ges. naturf. Freunde, Berlin, Jahrg.* 1940, pp. 288–293.
- Erichson, W. F. 1851. Hymenoptera, pp. 60–65. In: Middendorff, Reise in den Äussersten Norden und Osten Sibiriens 2(1), 516 pp., 32 pls.
- Erikson, E. V. 1908. Sur la psychologie des bourdons. *Rev. russ. Ent.* 8(1): 32–41.
- Erlandsson, S. 1948. *Bombus solstitialis* Panzer (Hym.) en bortglömd art i vår fauna. *Ent. Tidskr.* 69(1–2): 106–112.
- _____. 1950. *Bombus soroeensis* Fabr. (Hym.) en mindra känd art: vår fauna. *Ibid.* 71: 20–26, 2 figs.
- _____. 1953. *Bombus agrorum* F. ssp. *gotlandicus* n. ssp. (Hym.). *Ibid.* 74: 76–80, 1 fig.
- _____. 1960. Notes on Hymenoptera. *Ibid.* 81(3–4): 123–130.

- _____. 1963. Notes on Hymenoptera. 2: Contribution to the knowledge of the aculeate Hymenoptera in the Island of Bornholm. *Ibid.* 84(1-2): 65-68.
- Esaki, T., et al. 1932. Iconographia insectorum Japonicorum. 2241 pp. + 15 pp. (taxonomic arrangement), + 123 pp. (Japanese index), + 97 pp. (English index) and 24 plates. Hokuryukan, Tokyo.
- Etcheverry, M., and A. Valenzuela. 1960. Investigaciones biológicas sobre himenópteros de Chile, (Meliferos) de Claude Joseph. *Publ. Fac. Filos. Educ.*, No. 1, 60 pp., 18 pls.
- Etzel, A. 1859. (See under Schiødte, J. C., 1857.)
- Evans, J. D. 1896. List of Hymenoptera taken at Sudbury, Ont. *Can. Ent.* 28: 9-13.
- Evans, W. 1901. The pale variety of *Bombus smithianus*, White, in Scotland. *Entomologist's mon. Mag.* 37: 47.
- Eversmann, E. 1846. Hymenopterorum Rossicorum species novae vel parum cognitae, descriptae et partim depictae. *Bull. Soc. imp. Moscou* 19(1): 436-443, Tab. IV, V (col.).
- _____. 1852. Hymenopterorum Volgo-Uralensis. Fam. Anthophilarum seu apidarum. *Bull. Soc. Nat., Moscou* 3: 1-137.
- Fabricius, J. C. 1775. Systema entomologiae, etc. 28 unnumb. pp. (Prolegomena, etc.) + 832 pp. Flensburgi et Lipsiae.
- _____. 1776. Genera insectorum, etc. Prolegomena (12 unnumb. pp) + 310 pp. Bartschii, Chilonii.
- _____. 1781. Species insectorum, etc. 1: viii + 552 pp. Ernest, Bohnii, Hamburgi et Kilonii.
- _____. 1787. Mantissa insectorum, etc. 1: xx + 348 pp. Proft, Hafniae.
- _____. 1793. Entomologia systematica. 2: viii + 519 pp. Proft, Hafniae.
- _____. 1798. Supplementum entomologiae systematicae. 2 unnumb. + 572 pp. Proft et Storch, Hafniae. (Index alphabeticus, 52 pp. + Emendanda, 1 p., 1799.)
- _____. 1805. Systema piezatorum. xiv, pp. 15-440 and index, pp. 1-30. Brunsvigae.
- Fabricius, O. 1780. Fauna Groenlandica, etc. xvi + 452 pp., 1 pl. (with 12 figs.). Rothe, Hafniae and Lipsiae.
- Faester, K. 1959. In Dänemark getroffene arten von *Bombus* und *Psithyrus* (Hym., Apidae). *Ent. Meddr.* 29: 152-153.
- Fahringer, J., and H. Friese. 1921. Eine hymenopteren-ausbeute aus dem Amanusgebirge. (Kleinasiens und Nord-Syrien, südl. Armenien.) *Arch. Naturgesch.* 87 (A, 3): 150-180.
- Fairchild, D., and O. W. Barrett. 1906. Notes on the copulation of *Bombus fervidus*. *Proc. ent. Soc. Wash.* 8: 13-14, 1 pl.
- Fantham, H. B., and A. Porter. 1914. The morphology, biology and economic importance of *Nosema bombi* n. sp., parasitic in various humble-bees (*Bombus* spp.). *Ann. trop. Med. Parasit.* 8: 623-638.
- Fattig, P. W. 1923. The bumblebees of Florida. *Fla Ent.* 7: 25.
- _____. 1933. Food of the robber fly, *Mallophora orcina* (Wied.) (Diptera). *Can. Ent.* 65: 119-120.
- Ferton, C. 1901. Notes détachées sur l'instinct des hyménoptères mellifères et ravisseurs avec la description de quelques espèces. *Ann. Soc. ent., Fr.* 70: 83-148, 3 pls.
- Flamary, A. 1898. Contribution au catalogue des hyménoptères du Maconnais. *L'Ech., Rev. Linn. (Lyon)* 14(163): 61-63.
- Flemming, S. 1926. Ein auffalender nestbefund bei hummeln. *Zool. Jb., abt. syst.* 52: 395-406.
- Fletcher, J., and A. Gibson. 1908. Entomological Record, 1907. 38th *Rep. ent. Soc. Ont. (Canada)*, pp. 113-133.
- _____. 1909. Entomological Record, 1908. 39th *Rep. ent. Soc. Ont. (Canada)*, pp. 99-116.
- [Fletcher, J. J.] 1896. In: Notes and exhibits. *Proc. Linn. Soc. N.S.W.* 10 (s. 2): 537.
- Focke, W. O. 1880. Tabak und hummeln. *Kosmos* 6: 473-474.
- _____. 1883. Der rothe klee in Neuseeland. *Ibid.* 13: 687-688.
- Forbes, W. A. 1874. *Bombus lucorum*. *Entomologist* 7: 231.
- Forsius, R. 1925. Ueber *Bombus smithianus* Wh. *Medd. Soc. fauna fl. fenn.* 49: 9-11, 1 map (1922-23).
- Forsius, R., and A. Nordström. 1921. Verzeichnis der aus Finnland bisher bekannten apiden. *Notul. ent.* 1: 70-76.
- Fowler, C. 1902. The long-tongued bees (Apidae) of California. *Rep. Calif. agric. Exp. Sta* 1899-1901, Pt. 2, pp. 316-330.

- Fox, W. J. 1892. Report on the Hymenoptera collected in West Greenland. *Proc. Acad. nat. Sci. Philad.*, pp. 133-135.
- _____. 1893. Report on some Mexican Hymenoptera, principally from Lower California. *Proc. Calif. Acad. Sci.* 4(2): 1-25.
- _____. 1895. Third report on some Mexican Hymenoptera, principally from Lower California. *Ibid.* 5(2): 260-272, pl. 21.
- Franklin, H. J. 1907. Notes on Bombinae, with descriptions of new species. *Ent. News* 18: 90-93.
- _____. 1911. New North American Bombidae. *Trans. Am. ent. Soc.* 37: 157-168.
- _____. 1912. The Bombidae of the New World. *Ibid.* 38: 177-486.
- _____. 1913. *Idem. Ibid.* 39: 73-200, pls. 1-22.
- _____. 1915. Notes on Bombidae, with descriptions of new forms (Hym.). *Ent. News* 26: 409-417.
- _____. 1950. Cranberry insects in Massachusetts. *Mass. agric. Exp. Sta. Bull.* 445 (Pts. II-VII), 88 pp.
- _____. 1954. The evolution and distribution of American bumblebee kinds. *Trans. Am. ent. Soc.* 80: 43-51.
- _____. 1955. Measurements of some parts of some male bumblebees (Hym.). *Ent. News* 66: 65-68.
- Fraser, F. C. 1947. *Bombus jonellus* (Kby.) (Hym.) nesting in a discarded bird's nest. *Entomologist's mon. Mag.* 83: 280.
- Free, J. B. 1955a. Queen production in colonies of bumblebees. *Proc. R. ent. Soc. Lond.* 30(A) 1-3: 19-25.
- _____. 1955b. The adaptability of bumblebees to a change in the location of their nest. *Brit. J. anim. Behav. (Lond.)* 3: 61-65.
- _____. 1955c. The behavior of egg-laying workers of bumblebee colonies. *Ibid.* 3: 147-153.
- _____. 1955d. The division of labour within bumblebee colonies. *Insectes soc.* 2: 195-212.
- _____. 1955e. The collection of food by bumblebees. *Ibid.* 2: 303-311.
- _____. 1957. The effect of social facilitation on the ovary development of bumblebee workers. *Proc. R. ent. Soc. Lond.* 32: 182-184.
- Free, J. B., and C. G. Butler. 1959. Bumblebees. Appendices 3 (pp. 173-184) and 4 (pp. 185-189) by Yarrow. xiv + 208 pp., 46 phot. Macmillan, New York; Collins, London. (Krombein 1959, q.v.)
- Frey-Gessner, E. 1889. Une chasse au *Bombus alpinus* Lin., I-VIII. *Mitt. schweiz. ent. Ges.* 4: 17-18, 26, 31-32, 42, 49-50, 55-56, 63-65, 71-72.
- _____. 1890a. Une nouvelle chasse au *Bombus alpinus* Linn. *Ibid.* 4: 152-153, 162, 183-184, 193; 5: 2-3, 10-11, 18-19.
- _____. 1890b. Supplément aux chasses au *Bombus alpinus* Lin. *Ibid.* 5: 75-76, 81, 92-93.
- _____. 1890c. *Bombus agrorum* Fab. und *B. variabilis* Schmdk. *Ibid.* 8: 183-187.
- _____. 1890d. Die weissen alpenhummlen. *Bombus mucidus* Gerst., var. *mollis* Péréz und *B. pomorum* Pz. var. *elegans* Seidl (*mesomelas* Gerst.). *Ibid.* 8: 187-190.
- _____. 1890e. *Bombus alticola* Krchb., *rajellus* Kirby und *pyrenaeus* Péréz. *Ibid.* 8: 190-194.
- _____. 1892. Les bourdons du Valaia. *Bull. Soc. Murith.* 13: 32-36.
- _____. 1898. Ueber die erkennungszeichen der hochalpinen dreifarbigem hummellarbeiter *alticola*, *derhamellus* var. 3, *mendax* und *lapponicus*. *Mitt. schweiz. ent. Ges.* 10: 127-132.
- _____. 1898-1912. Fauna insectorum Helvetiae. Hymenoptera, Apidae. Volume 1: Gesellig lebende bienen, urbienen und schenkelsammler. *Ibid.* 10: 1-52 (1898), 53-84 (1899), 85-148 (1900), 149-180 (1903); 11: 181-212 (1903), 213-276 (1905), 277-340 (1906), 341-392, + Inhalt, III-VII, (1907). Volume 2: Bauchsammler und schmarotzerbienen. *Ibid.* 11: 1-48 (1907), 49-56 (1908), 97-192 (1909); 12: 193-240 (1910), 241-256 (1911), 257-319, + Inhalt, III-V (1912). N.B. The final part, pp. 303 et seq., entitled "Systematisches verzeichnis der bis jetzt in der Schweiz gefunden", treated solitary, social, and parasitic species. (Schaffhausen 1898-1907; thenceforth only Bern.)
- _____. 1902. *Bombus grandaeus* Heer. *Ibid.* 10: 419.
- _____. 1912. Tables analytiques des hyménoptères du Valais (suite). *Bull. Soc. Murith.* 37: 25-82 (1911). (Also, *Bull. trav. Murith. Soc. Valaisanne sci. nat.*)
- Friese, H. 1888. Die schmarotzbienen und ihre wirte. *Zool. Jb., abt. syst.* 3: 847-870.
- _____. 1893. Die bienenfauna von Deutschland und Ungarn. 80 pp. Berlin.
- _____. 1895a. Über unbekannte hummelnester. *Ent. Nachr.* 21: 100-103.

- 1895b. Apidae Europaeae. Theil 1. Schmarotzerbienen. 218 pp., 53 figs. Friedländer, Berlin.
1902. Die arktischen Hymenoptera mit ausschluss der tenthrediniden. In: Römer & Schäudinn's Fauna Arctica, 2(3): 439–500, Taf. III (col.). Jena.
1903. Neue *Bombus*-arten aus der Neotropischen Region. *Z. syst. Hym. Dipt.* 3: 253–255.
- 1904a. Über hummelleben im arktischen gebiete. (Hym.). *Allg. Z. Ent.* 9(21–22): 409–414.
- 1904b. Beitrage zur bienenfauna von Chile, Peru und Ecuador. *Z. syst. Hym. Dipt.* 4: 180–188.
- 1904c. Neue oder wenig bekannte hummeln des Russischen Reiches. *Ann. Mus. zool. Acad. imp. Sci., St. Petersburg* 9(4): 507–523 (1905). (Also appeared as 17 continuously paginated separate, 1905.)
- 1904d. Eine bienenausbeute von Java. (Hym.). *Allg. Z. Ent.* 9(7–8): 138–140.
- 1906a. Resultate einer reise des Herrn A. C. Jensen-Haarup in die gegend von Mendoza (Argentina). Hymenoptera, fam. Apidae. *Flora fauna* (Denmark) 8: 89–99.
- 1906b. Nachtrag zur bienen-ausbeute in Argentina von A. C. Jensen-Haarup in den jahren 1904–5. *Ibid.* 8: 99–102.
- 1908a. Ueber die bienen der Russischen Polarexpedition 1900–1903 und einiger anderen arktischen ausbeuten. *Mem. Acad. Sci., St. Petersburg*. Ser. 8, 18(13): 1–17, 1 pl. (Also, *Mem. Akad. nauk SSSR*, Ser. 8, Cl. Phys.-math., 18(13): 1–17, 1 pl.)
- 1908b. Hymenoptera II. Apidae. In: *Résultats de l'expédition scientifique Néerlandaise à la Nouvelle-Guinée en 1903 (sous les auspices de Arthur Wichmann)*. Zoologie. Vol. 5, pp. 353–359, pl. 15 (col.).
- 1908c. Die Apidae (blumenwespen) von Argentina nach den reisenergebnissen der Herren A. C. Jensen-Haarup und P. Jørgensen in den jahren 1904–1907. *Flora fauna, Silkeborg*, 107 pp. + 4 pp. index. Silkeborg, Denmark.
- 1909a. Neue varietäten von *Bombus* (Hym.). *Dt. ent. Z.*, H. 5, pp. 673–676.
- 1909b. Zur synonymie der apiden. (Hym.). *Ibid.*, Beiheft, pp. 124–128.
1910. Neue bienenarten aus Japan. *Verh. zool.-bot. Ges. Wien* 60: 404–410.
- 1911a. Neue varietäten von *Bombus* (Hym.), II. *Dt. ent. Z.*, H. 4, pp. 456–457.
- 1911b. Zur synonymie der *Bombus*-arten. *Ibid.*, H. 4, p. 684.
- 1911c. Neue varietäten von *Bombus*, III. *Ibid.*, H. 5, pp. 571–572.
1913. Über einige neue apiden. *Arch. Naturgesch.* 78 (A, 12): 85–89 (1912).
1914. Die bienenfauna von Java. *Tijdschr. Ent.* 57: 1–61.
- 1916a. Zur bienenfauna von Costa Rica (Hym.). *Stettin. ent. Ztg* 77: 287–350.
- 1916b. Über einige neue hummelformen (*Bombus*), besonders aus Asien (Hym.). *Dt. ent. Z.*, H. 2, pp. 107–110.
- 1918a. Wissenschaftliche ergebnisse einer forschungsreise nach Ostindien, etc. VII: Bienen aus Sumatra, Java und Ceylon. *Zoöl. Jb., abt. syst.* 41(h. 5): 489–520.
- 1918b. Ueber hummelformen aus dem Himalaja. *Dt. ent. Z.*, Hfn. 1–2, pp. 81–86.
1919. [Wasps and bees. In: Scientific results of the expedition of the Kuznetzov Brothers to the Arctic Ural, 1909.] *Mem. Acad. Sci., St. Petersburg*, Ser. 8, 28(15): 1–2. (Also, *Mem. Akad. nauk SSSR*, Ser. 8, Cl. Phys.-math., 28(15): 1–2.)
1921. Nachtrag zur bienenfauna von Costa Rica. *Stettin. ent. Ztg* 82(hfn. 1–2): 74–101.
- 1922–1923. Die Europäischen bienen (Apidae), das leben und wirken unserer blumenwespen, unsw. Vols. 1, 2, 1922; vols. 3, 4, 1923; 400 pp., 25 pls. Walter de Gruyter, Berlin and Leipzig.
- 1923a. Eine kriegsausbeute an apiden (bienen) aus Makedonien. *Zoöl. Jb., abt. syst.* 46: 175–216.
- 1923b. Wissenschaftliche ergebnisse der Schwedischen entomologischen reise des Herrn Dr. A. Roman in Amazonas 1914–1915. 8: Apidae. *Ark. Zool.* 15(13): 1–8.
- 1923c. Report of the scientific results of the Norwegian expedition to Novaya Zemlya 1921. No. 14. Hymenoptera, Apidae. pp. 3–9. Vidensk. i. Kristiania, Brøggers.

1924. Über auffallende hummelformen (Hym. Apid.). *Dt. ent. Z.*, H. 5, pp. 437–439.
1926. Die bienen, wespen, grab- und goldwespen. In: Schröder, Die insekten Mitteleuropas insbesondere Deutschlands, Bd. 1, Hymenoptera, Erster Teil, (viii) + 192 pp., 107 figs., 8 pls. Franckhische, Stuttgart.
- 1931a. Über *Bombus* und *Psithyrus*. *Konowia* 10(4): 300–304.
- 1931b. Wie können schmarotzerbienen aus sammelbienen entstehen? II. *Zool. Jb., abt. syst.* 62 (hfn. 1–2): 1–14.
1935. Apiden aus Nordst-Grönland. Skrifter 65, 10 pp. Norges Svalbard og Ishavs.-undersøk. Also part of: Zoological results of the Norwegian scientific expedition to East Greenland, IV. 25 pp. Dybwab, Oslo.
- Friese, H., and H. v. Wagner. 1904. Ueber die hummeln als zeugen natürlicher formenbildung. *Zool. Jb., Suppl. (Festschrift Weismann)* 7: 551–570, 2 pls. (col.).
1910. Zoölogische studien an hummeln I. Die hummeln der Deutschen fauna. *Zool. Jb., abt. syst.* 29: 1–104, 7 pls., 20 figs. (1909).
1912. *Idem.* II: Die hummeln der Arktis, des hochgebirges und der steppe. *Ibid., Suppl.* 15: 155–210, 5 pls., 30 figs. (Many text figures incorrectly numbered, especially to fig. 8, pl. 5, et seq.)
1914. *Idem.* IIa: Berichtigungen und ergänzungen zu I und II nebst theoretischen bemerkungen zur methodik der hummelforschung. *Ibid.* 37 (h. 2): 173–198, 1 pl.
- Friese, H., et al. 1923. Apidae, pp. 3–9. In: Scientific results of the Norwegian expedition to Novaja Zemlja. 1921. Number 14, 25 pp. Det Norske Vidensk.-akad., Oslo (Also, Videnskaps. i. Kristiania, Brøggers Boktrykkeri).
- Frionnet, C. 1901. La rareté des *Bombus* en Suisse. Réponse à M. B. Jacob. *Feuille jeun. Nat.* 32 (s. 4): 23.
1902. *Bombus* et *Psithyrus* de France et de Belgique. *Ibid.* 32: 165–169, 177–183.
- Frisch, K. v. 1952. Hummeln als unfreiwillige transportflieger. *Nat. Volk, Frankfurt am Main* 82: 171–174, 1 fig.
- Frison, T. H. 1916. Note on the habit of *Psithyrus variabilis* Cress. *Bull. Brooklyn ent. Soc.* 2: 46–47.
1917. Notes on Bombidae, and on the life history of *Bombus auricomus* Robt. *Ann. ent. Soc. Am.* 10: 277–286, 2 pls.
1918. Additional notes on the life history of *Bombus auricomus* Robt. *Ibid.* 2: 43–48, pl. 3.
- 1919a. Keys for the separation of the Bremidae, or bumblebees of Illinois, and other notes. *Trans. Ill. St. Acad. Sci.* 12: 157–165.
- 1919b. Report on the Bremidae collected by the Crocker Land Expedition of 1913–1917. *Bull. Am. Mus. nat. Hist.* 41: 451–459, pl. xxiv.
- 1921a. *Psithyrus laboriosus* in the nests of bumblebees (Hym.). *Can. Ent.* 53: 100–101.
- 1921b. New distribution records for North American Bremidae, with description of a new species (Hym.). *Ent. News* 32: 144–148.
- 1921c. *Antherophagus ochraceus* Mels. in the nests of bumblebees. *Am. Nat.* 55: 188–192.
- 1921d. Hymenopterous insects of the family Bremidae from the Pribilof Islands, Alaska. *Proc. Calif. Acad. Sci.* 11(14): 185–187.
1922. Further biological and systematic notes concerning *Bremus kincaidii* Ckll. and other closely related species (Hym. Bremidae). *Ent. News* 33: 214–216.
- 1923a. Biological studies of the Bremidae, or bumblebees, with special reference to the species occurring in Illinois. Unpubl. Ph.D. Thesis, Univ. Illinois, Urbana.
- 1923b. Systematic and biological notes on bumblebees (Bremidae; Hymenoptera). *Trans. Am. ent. Soc.* 48: 307–326.
1924. Notes on North American Bremidae. *Can. Ent.* 56: 292–296.
- 1925a. Contribution to the classification of the Bremidae (bumblebees) of Central and South America. *Trans. Am. ent. Soc.* 51: 137–165, pls. 5, 6.
- 1925b. The bumblebees of the Philippine Islands (Bremidae: Hymenoptera). *Philip. J. Sci.* 27: 113–121.
- 1926a. Descriptions and records of North American Bremidae, together with notes on the synonymy of certain species (Hymenoptera). *Trans. Am. ent. Soc.* 52: 129–145.
- 1926b. Contribution to the knowledge of the inter-relations of the bumblebees of Illinois with their animate environment. *Ann. ent. Soc. Am.* 19: 203–235, pl. xvii.

- _____. 1926c. Experiments in attracting queen bumblebees to artificial domiciles. *J. econ. Ent.* 19(1): 149-155.
- _____. 1927a. Experiments in rearing colonies of bumblebees in artificial nests. *Biol. Bull.* 52(1): 51-67, figs. 1-4, tab. 1.
- _____. 1927b. The development of the castes of bumblebees (Bremidae: Hym.). *Ann. ent. Soc. Am.* 20(2): 156-178, pls. ix, x.
- _____. 1927c. Records and descriptions of western bumblebees (Bremidae). *Proc. Calif. Acad. Sci.* 16(4): 365-380, 4 figs.
- _____. 1927d. The distribution of *Bremus kincaidii* (Cockerell). Bremidae: Hym. *Can. Ent.* 59: 32.
- _____. 1927e. A contribution to our knowledge of the relationship of the Bremidae of America north of Mexico (Hymenoptera). *Trans. Am. ent. Soc.* 53: 51-78, pls. xvi, xvii.
- _____. 1927f. The fertilization and hibernation of queen bumblebees under controlled conditions. *J. econ. Ent.* 20(3): 522-526.
- _____. 1928a. A contribution to the knowledge of the life history of *Bremus bimaculatus* (Cresson) (Hym.). *Entomologica Am.* 8 (n.s. 4): 159-214, pls. vi-ix.
- _____. 1928b. The bumblebees of the Philippine Islands (Bremidae: Hymenoptera). *Philip. J. Sci.* 37(3): 273-281, 1 pl.
- _____. 1928c. Records of bumblebees from Alberta, Canada (Bremidae: Hym.). *Can. Ent.* 60: 236-238.
- _____. 1928d. A new species of bumblebee from Guatemala (Bremidae: Hym.). *Bull. Brooklyn ent. Soc.* 23: 151-152.
- _____. 1929a. A contribution to the knowledge of the bionomics of *Bremus impatiens* (Cresson) (Hymenoptera). *Ibid.* 24: 261-282, pls. xxiv-xxvi.
- _____. 1929b. Additional descriptions, synonymy and records of North American bumblebees (Hymenoptera: Bremidae). *Trans. Am. ent. Soc.* 55: 103-118.
- _____. 1930a. The bumblebees of Java, Sumatra and Borneo (Bremidae: Hymenoptera). *Treubia* 12(1): 1-22, 8 figs.
- _____. 1930b. A contribution to the knowledge of the bionomics of *Bremus americanorum* (Fabr.). (Hymenoptera). *Ann. ent. Soc. Am.* 23: 644-665, 6 figs.
- _____. 1930c. A contribution to the knowledge of the bionomics of *Bremus vagans* (F. Sm.) (Hym.). *Bull. Brooklyn ent. Soc.* 25(2): 109-122, 1 fig.
- _____. 1930d. Observations on the behavior of bumblebees (*Bremus*): The orientation flight. *Can. Ent.* 62: 49-54.
- _____. 1932. Notes concerning some American bumblebees (*Bremus-Bombus*) described or determined by M. Spinola (Bremidae). *Bol. Mus. zool. Anat. comp.* (Univ. Torino) 42: 1-4.
- _____. 1933. Records and descriptions of *Bremus* and *Psithyrus* from India (Bremidae: Hymenoptera). *Rec. Indian Mus.* (Calcutta) 35(3): 331-342.
- _____. 1934. Records and descriptions of *Bremus* and *Psithyrus* from Formosa and the Asiatic mainland. *Trans. nat. hist. Soc. Formosa* 24(131): 150-185.
- _____. 1935. Records, notes and descriptions of *Bremus* from Asia (Bremidae: Hymenoptera). *Rec. Indian Mus.* (Calcutta) 37: 339-363.
- Frost, S. W. 1964. Insects taken in light traps at the Archbold Biological Station, Highlands County, Florida. *Fla. Ent.* 47(2): 129-161. (p. 161.)
- Fye, R. E., and J. T. Medler. 1954a. Temperature studies in bumblebee domiciles. *J. econ. Ent.* 47: 847-852, 1 fig., 6 gphs.
- _____. 1954b. Spring emergence and floral hosts of Wisconsin bumblebees. *Wis. Acad. Sci. Arts Lett.* 43: 75-82.
- _____. 1954c. Field domiciles for bumblebees. *J. econ. Ent.* 47(4): 672-676, 2 figs.
- Gabritschevsky, E. 1926. Convergence of coloration between American pilose flies and bumblebees (*Bombus*). *Biol. Bull.* 51: 269-286, 4 pls.
- Gaschott, O. 1922. Zur phylogenie von *Psithyrus*. *Zool. Anz.* 54: 215-231.
- _____. 1928. *Idem. Ibid.* 78: 224-228.
- Gemignani, E. V. 1931. [Note regarding *Bombus carolinus* (L.) F.] *Rev. Soc. ent. argent.* 3(17): 330.
- Geoffroy, M. 1799-1800. *Histoire abrégée des insectes, etc.* Vol. 2, 744 pp., 12 pls. Volland & Rémond, Paris. (pp. 403-407.) (Examined the First Edition, 1762, also.)
- Gerstaeker, A. 1869. Beiträge zur näheren kenntnis einiger bienen-gattungen. *Stettin. ent. Ztg* 30: 139-184, 315-367.

- _____. 1872. Nachträgliches über *Bombus*, pp. 282–298. In: Gerstaecker's Hymenopterologische beiträge 1–5. *Ibid.* 33(7–9): 250–308.
- Gibbons, H. I. 1935. The first cubital cell in certain Hymenoptera. *Ann. ent. Soc. Am.* 28: 47–52, pls. 1–3.
- Gibson, A. 1911. The entomological record for 1910. 41st Rep. ent. Soc. Ont. (Canada), pp. 101–120.
- _____. 1912. *Idem.*, 1911. 42nd Rep., *ibid.*, pp. 89–112.
- _____. 1914. *Idem.*, 1913. 44th Rep., *ibid.*, pp. 106–129.
- _____. 1915. *Idem.*, 1914. 45th Rep., *ibid.*, pp. 123–150.
- _____. 1916. *Idem.*, 1915. 46th Rep., *ibid.*, pp. 194–230.
- _____. 1917. *Idem.*, 1916. 47th Rep., *ibid.*, pp. 137–171.
- _____. 1918. *Idem.*, 1918. 48th Rep., *ibid.*, pp. 99–127.
- _____. 1930. Bumblebee occupying oriole nest. *Can. Fld Nat.* 44: 146.
- Gibson, A., and N. Criddle. 1920. The entomological record, 1919. 50th Rep. ent. Soc. Ont. (Canada), pp. 112–134.
- Girard, M. 1869. Études sur la chaleur libre dégagée par les animaux invertébrés et spécialement les insectes. *Ann. Sci. nat. zool.*, Ser. 5, 11: 135–274.
- Goedaert, J. 1662. Metamorphosis naturalis, ofte historische beschryvinge van den oirspronk, aerd, etc. (Pars secunda). 20 unnumb. + 288 pp. + 16 pp. index and 51 pls. Fierens, Middelburgh.
- _____. 1667. Metamorphoseos et historiae naturalis pars secunda, de insectis. Latinitate donata, commentariis, etc. 30 unnumb. pp. and frontisp. + 259 pp. and 51 pls. Fierensium et Martinum, Medioburgi. (Lister, q. v.)
- _____. 1700. Metamorphosis naturalis sive insectorum historia. Pars secunda, pp. 174–192, 1 pl. Gallet, Amstelodami.
- Goetze [most often Goezel], J. A. E. 1780. Degeer: Abhandlungen zur geschichte der insekten mit anmerkungen herausgegeben. Vol. 3, 6 unnumb. + 454 pp., index and 44 pls. Raspe, Nürnberg.
- Gosse, P. H. 1840. The Canadian Naturalist, xii + 372 pp. Van Voorst, London.
- Graeffe, E. 1902. Die apiden-fauna des Österreichischen Küstenlandes. *Verh. zoöl.-bot. Ges. Wien* 52(2): 113–135.
- Graenicher, S. 1910. New Zealand's experience with the red clover bumblebees. *Bull. Wis. nat. hist. Soc.* 8: 166–169.
- _____. 1911. Bees of northwestern Wisconsin. *Bull. Milw. publ. Mus.* 1(3): 221–249.
- _____. 1930. Bee-fauna and vegetation of the Miami Region of Florida. *Ann. ent. Soc. Am.* 23: 153–174.
- _____. 1935. Bee-fauna and vegetation of Wisconsin. *Ibid.* 28: 285–310.
- Grandi, G. 1934. Contributi alla conoscenza degli imenotteri melliferi e predatori, XIII. *Bol. Inst. Ent. Bologna* 7: 1–144, Tav. i–viii.
- _____. 1937. Contributi alla conoscenza degli imenotteri aculeati, XVI. *Ibid.* 9: 253–346, Tav. vii–viii.
- _____. 1954. *Idem.* XXVI. *Ibid.* 20: 81–255.
- _____. 1957. *Idem.* XXVII. *Ibid.* 32: 307–398.
- _____. 1961. Studi di un entomologo sugli imenotteri superiori. *Bol. Inst. Ent., Univ. Bologna* 25: 1–659, 414 figs.
- Greene, J. W. 1858. Descriptions of several new hymenopterous insects from the north west coast of America. *Ann. Lyc. nat. Hist. (New York)* 7: 11–12.
- _____. 1860. Review of the American Bombidae, together with a description of several species heretofore undescribed being a synopsis of the species of this family of hymenopterous insects thus far known to inhabit North America. *Ibid.* 7: 168–176.
- Greve, C. 1909. Hummeln in einem sperlingsnest. *Zool. Beob.* 50: 26.
- _____. 1910. Hummeln in einem nistkasten. *Ibid.* 51: 203–205.
- Gribodo, G. 1873. Contribuzioni alla fauna imenottero-ologica Italiana. *Bull. Soc. ent. ital.* 5: 73–87. (Separate, pp. 1–15.)
- _____. 1882. Alcune nuove specie e nuove genere di imenotteri aculeati. *Ann. Mus. civ. Genova* 18: 261–268. (Separate, pp. 1–8.)
- _____. 1883. Le crociere dell'yacht "Corsaro" del Capitano Armatore Enrico D. Albertis. IV: Imenotteri. *Ibid.* 18: 684–690. (Separate, pp. 1–7.)
- _____. 1892. Contribuzioni imenottero-ologiche. Sopra alcune specie nuove o poco conosciute di imenotteri antofili. *Bull. Soc. ent. ital.* 23: 103–119 (1891). (Separate, pp. 1–18.)

- _____. 1893-1894. Nuovi generi e nuove specie di imenotteri antofili, ed osservazioni sopra alcune specie già conosciute. *Ibid.* 25: 248-287, 388-428 (1893); *ibid.* 26: 76-136, 262-269, Addenda et emendanda (*ibid.* 26) 270-304, indice, pp. 305-314 (1894). (with C. Emery).
- _____. 1882. Imenotteri raccolti da G. Cavanna al Vulture, al Pollino ed in altri luoghi dell'Italia meridionale e central. (Ordo Hymenoptera). *Bull. Soc. ent. Ital.* 14: 81-84. (Gribodo separate, pp. 1-3.)
- Griffith, E. 1832. Supplement to Hymenoptera, pp. 567-570. To: Cuvier's Animal kingdom, Vol. 15, 796 pp., 140 pls. Whittaker, Treacher, London. (Figs. 1, 2 are reversed on plate facing p. 530.)
- Grütte, E. 1935. Zur abstammung der kuckucksbienen (Hymenopt., Apid.). *Arch. Naturgesch.* 4(n.f., 4): 449-534.
- _____. 1937. Zur kenntnis Zentralasiatischer arten von *Psithyrus* Lep. (Hym. Apid.). *Mitt. Dt. ent. Ges., E.V. (Berlin)* 7(10): 103-109, 6 figs.
- _____. 1940. Beitrag zur kenntnis des subgenus *Allopsithyrus* Popov (Hym. Apid.). *Dt. ent. Z., Hfn.* 1-4, pp. 204-223, 4 figs.
- Guérin-Méneville, F. E. 1835. Pl. 75, fig. 3. To: Iconographie du règne animal de G. Cuvier. (cf. below.)
- _____. 1844. Iconographie du règne animal de G. Cuvier, Vol. 3, 576 pp. (texte explicatif). [B. *dahlbomii*, n. sp., p. 459, *retro supra*.]
- Guiglia, D. 1941. Imenotteri aculeati raccolti dal sig. L. Ceresa nella Grande Sila (Calabria). (Scoliidae, Vespidae, Sphecidae, Apidae). *Atti Soc. Ital. Mus. civ. Stor. nat. Milan* 80 (2): 155-176.
- _____. 1948. I tipi di imenotteri del Guérin esisteni nelle collezioni del Museo di Genoa. *Ann. Mus. civ. Stor. nat. Genoa* 63: 175-191, 5 figs.
- _____. 1953. Ricerche zoologiche sul massiccio del Pollino (Lucania-Calabria). VIII: Imenotteri. *Ann. Inst., Mus. Zoöl., Univ. Napoli* 5(9): 1-28.
- Gundermann, E. 1908. Einige beobachtungen an hummelnestern. *Ent. Wochensbl.* 25: 30-31, 35-36.
- Gurr, L. 1957. Bumble bee species present in the South Island of New Zealand. *N.Z. J. Sci., Tech. A,* 38: 997-1001.
- Haas, A. 1946. Neue beobachtungen zum problem der flugbahnen bei hummelmännchen. *Z. Naturf. (Weisbaden)* 1: 596-600, 2 figs.
- _____. 1949a. Gesetzmässigkeiten und rätsel des hummelfluges. *Entomon (Munich)* 1: 37-40.
- _____. 1949b. Artypische flugelbohoren von hummelmännchen. *Z. vergl. Physiol.* 31: 281-307, 9 figs.
- _____. 1949c. Gesetzmässiges flugverhalten der männchen von *Psithyrus silvestris* Lep. und einiger solitärer apiden. *Ibid.* 31: 671-683, 4 figs.
- _____. 1962. Phylogenetically meaningful behavioral changes in bumblebees. 2. Report on behavior studies on a nest with worker-queen (*Bombus hypnorum*). *Z. Tierpsychol.* 19(3): 356-370. [Title and paper in German with English summary.]
- Haliday, A. H. 1836. (See under Curtis, J., et al., 1836.)
- Handlirsch, A. 1888a. Die hummelsammlung des K. K. naturhistorischen Hofmuseums. *Annln naturh. Hofmus. Wien* 3(h. 3): 209-250, taf. x.
- _____. 1888b. Vortrag über die variabilität und die geographical verbreitung der hummeln, welchen wir hier auszugsweise mittheilen, und demonstrierte zur erläuterung die wichtigsten formen der gattung *Bombus*. *Verh. zool.-bot. Ges. Wien* 38: 34-36.
- _____. 1891. Hummelstudien, I-II. *Annln naturh. Hofmus. Wien* 6: 446-454, 2 figs.
- Hänninen, P. 1962. Bumblebee species on red clover in central Finland. *Valt. maatal. koetoim. julk.*, No. 197, pp. 1-20 [21].
- Harrington, W. H. 1903. Hymenoptera (pp. 99-100). In: Entomological record, 1902. 33rd Rep. ent. Soc. Ont. (Canada), pp. 87-101.
- Harris, M. 1782. An exposition of English insects, etc., viii + 166 pp. + 4 unnumb. index pp. and 50 pls. (col.). White & Robson, London. (Essentially, a duplication of the original 1776 ed., not examined in detail.)
- Harris, T. W. 1833. Insects (Part IV, p. 589.) In: Report on the geology, mineralogy, botany and zoology of Massachusetts, vii + 692 pp. Adams, Amherst.
- _____. 1835a. Insects (Part VIII, pp. 33-82). In: Hitchcock et al., Catalogue of the animals and plants of Massachusetts. Adams, Amherst.
- _____. 1835b. Insects. *Ibid.*, pp. 553-602. (2nd ed.)
- Harrison, J. W. H. 1918. The pairing habits of certain bees. *Entomologist's Rec.* 30: 11-12.

- _____. 1948. Humble-bees (*Bombus*) at orchard flowers. *Entomologist's mon. Mag.* 84: 24.
- Harvey, F. L., and O. W. Knight. Insects collected at Jackman, Maine. *Psyche, Camb.* 8: 77-79.
- Härter, E. 1887. Ueber schmarotzerhummeln in einen neste der feldhummei (*Bombus agrorum*). *Dt. ent. Z.* 31(h. 1): 224.
- _____. 1890. Biologische beobachtungen an hummeln, 27. *Ber. oberhess. Ges. Nat. Heilkunde*, pp. 59-75.
- Hase, A. 1926. Über die nester der wachsmottenraupen und der aphomiaraupen. *Arb. biol. Abt. (Anst.-Reichsanst.), Berlin* 14: 555-565.
- Hasselrot, T. B. 1951. Artificiell odling av humler. *Faun. Revy* 4: 110-116.
- _____. 1952. A new method for starting bumblebee colonies. *Agron. J.* 44: 218-219.
- _____. 1953a. Meddelande från försöken med domesticering av humlor. *Medd. sv. Fröodlareförb.* 2: 62-68.
- _____. 1953b. Künstliche aufzucht von hummeln. *Schweiz. landw. Monatsh.* 3: 94-100.
- _____. 1960. Studies on Swedish bumblebees (Genus *Bombus* Latr.). Their domestication and biology. *Opusc. ent.*, Suppl. XVII, 192 pp., 51 figs.
- Haverhorst, P. 1909. De paring van *Bombus hortorum* L. *Ent. Ber., Amst.* 2: 305.
- Haviland, G. D. 1887. Humble bees. *Br. Bee J.* 15: 217.
- Hazeltine, W. E., and L. Chandler. 1964. A preliminary atlas for the identification of female bumble bees (Hymenoptera: Apidae). *J. Kans. ent. Soc.* 37(1): 77-87 (incl. 6 pls.).
- Hedicke, H. 1926. Beiträge zur apidenfauna der Philippinen (Hym.). (2. Beiträge zur kenntnis orientalischer apiden.) *Dt. ent. Z.*, H. 5, pp. 413-423.
- _____. 1930. Hymenoptera. 2 Teil. Insekten. In: Brohmer, Ehrmann u. Ulmer, Die Tierwelt Mitteleuropas, 5 (h. 1), pp. 1-246.
- _____. 1942. Beiträge zur synonymie der apiden (Hym.). V. Die beiden von Swederus beschriebenen bienen. *Mitt. dt. ent. Ges., E.V.*, 11(1-2): 9-10.
- Heer, O. 1836. Einfluss des alpenklimas sur die farbe der insekten. In: Froebel u. Heer, Mittheilungen aus dem Gegiete der Theoretischen Erdkunde, 1: 161-170.
- _____. 1850. Die insektenfauna der tertärgebilde von Oeningen und von Radoboj in Croatiens. 2: Abtheil. Neue Denkschr. *Allg. schweiz. Ges. naturw.* 11: 1-264, 17 taf.
- _____. 1865. Die urwelt der Schweiz. xxix + 622 pp., XI Taf., 1 mp. Schulthess, Zurich.
- _____. 1867. Fossile hymenopteren aus Oeningen und Radoboj. Neue Denkschr. *Allg. schweiz. Ges. naturw.* 22(3): 3-42, 3 taf.
- Heikertinger, F. 1919. Bionomische irrtümer. I: Der rotklee und die hummeln. *Z. Naturw. Erkundl., Unterricht*, pp. 374-376.
- Hellén, W. 1933. Hymenoptera Aculeata aus Finmarken in Norwegen. *Notul. ent.* 13(1-2): 41-43.
- Henriksen, K. L. 1937. Insects collected on the Fifth Thule Expedition. *Rep. 5th Thule Exped.*, 1921-24, 2(8): 1-34.
- _____. 1939. A revised index of the insects of Greenland, containing suppl. to list by Kai L. Henriksen and Will. Lundbeck: Greenland land arthropods (Medd. Grønl., Bd. 22, 1917). *Medd. Grønl.* 119(10): 1-111.
- Henriksen, K. L., and W. Lundbeck. 1917. Conspectus Faunae Groenlandicae. Pars secunda. Landarthropoder (Insects et Arachnida). *Medd. Grønl.* 22(2): 484-821. + 1 p. contents. (Also, issued as an identically paginated separate, Grønlands landarthropoder (Insecta et Arachnida Groenlandicae).)
- Henslow, G. 1878. The fertilization of the scarlet runner by humble-bees. *Gdnrs' Chron.* 10(n.s.): 561, 1 fig.
- Herbst, P. 1917. Durchsicht der von Spinola in der von Claude Gay 1851 herausgegebenen historia fisica y politica de Chile, Zoologia, vol. VI beschriebenen Apidae, nebst einigen einleitenden bemerkungen. *Dt. ent. Z.*, Hfn. 3-4, pp. 257-292.
- Herold, W. 1917. *Bombus hypnorum* L. in nistkästen. *Z. wiss. InsektBiol.* 13: 251-252.
- Herrick-Schäffer, [G. A. W.]. 1840. Nomenclator entomologicus. Verzeichnis der Europäischen insecten; zur erleichterung des tauschverkehrs mit preisen versehen. Zweites heft, viii + 40 and 244 pp., 8 taf. Pustet, Regensburg.
- Heslop Harrison (see under Harrison, J. W. H.).
- Hicks, C. H. 1929. Notes on a nest of *B. vosnesenskii* Radoszkowski. *Pan-Pacif. Ent.* 5: 97-100.

- Hicks, E. A. (1959). Checklist and bibliography on the occurrence of insects in birds' nests. 681 pp. Iowa State College Press. (Printed in Denmark.)
- Himmer, A. 1925. Körpertemperaturmessungen an bienen und anderen insekten. *Erlanger Jb. Bienenk.* 3: 44–115.
- _____. 1933. Die nestwärme bei *Bombus agrorum* (Fabr.). *Biol. Zbl.* 53: 270–276.
- Hingston, R. W. G. 1920. A naturalist in Himalaya. 300 pp. Witherby, London.
- Hitchcock, E., et al. 1833. *Rep. Geol. Min. Bot. Zool. Mass.* XII + 692 pp., illus. Adams, Amherst. (Pt. IV. Cat. Anim. Plts. Mass., pp. 543–652; Insects, Harris, pp. 566–595.)
- _____. 1835a. *Ibid.*, 702 pp., illus. 2nd ed. Adams, Amherst. (Pt. IV. *Idem.*, pp. 521–660. Insects, Harris, pp. 553–602.)
- _____. 1835b. Cat. Anim. Plts. Mass., 6 unnumb. + pp. 7–142. Adams, Amherst. (VIII: Insects, Harris, pp. 33–82.) (Separate, pp., *supra*.)
- Hobbs, G. A. 1957. Alfalfa and red clover as sources of nectar and pollen for honey, bumble, and leaf-cutter bees (Hymenoptera: Apoidea). *Can. Ent.* 89: 230–235.
- _____. 1958. Factors affecting value of bees (Hymenoptera: Apoidea) as pollinators of alfalfa and red clover. *Proc. 10th int. Congr. Ent.*, Vol. 4, pp. 939–942.
- Hobbs, G. A., J. F. Virostek, and W. O. Nummi. 1960. Establishment of *Bombus* spp. (Hymenoptera: Apidae) in artificial domiciles in southern Alberta. *Can. Ent.* 92(11): 868–872.
- Hobbs, G. A., W. O. Nummi, and J. F. Virostek. 1961. Food gathering behaviour of honey, bumble and leaf-cutter bees (Hymenoptera: Apoidea) in Alberta. *Can. Ent.* 93(6): 409–419.
- Høeg, O. A. 1924. Pollen on humble-bees from Novaya Zemlya. *Rep. Norweg. Exped. N. Zem.*, No. 27, 18 pp.
- _____. 1929. Pollen on humble-bees from Ellesmere Land. *K. norske Vidensk. selsk. Förh.* 2(16): 55–57. Trondhjem.
- Hoffer, E. 1881a. Biologische beobachtungen an hummeln und schmarotzerhummeln. *Mitt. naturw. Ver. Steierm.* 18: 68–92.
- _____. 1881b. Beschreibung eines instructiven nestes von *Bombus confusus* Schenck. *Ibid.* 18: 93–105, 1 pl.
- _____. 1881c. Verzeichniss der in der umgebung von Graz vorkommenden hummelarten. *Ibid.* 18: 106–109.
- _____. 1882a. Die hummeln Steiermarks. Lebensgeschichte und beschreibung derselben. I Hälfte. 31 Jber., Steiermärk. Landes-oberrealsch., Graz. 2 unnumb. + pp. 1–92, taf. A and pls. 1–2. (See [Katter, F.], 1882a, for review. Separate, Part 1, original pagination, Leuschner & Lubensky, Graz, 1883.)
- _____. 1882b. Die hummelbauten. *Kosmos* 12: 412–421, 4 figs.
- _____. 1883a. Sammeln die jungen hummelweibchen schon im ersten jahre ihres lebens pollen? *Ibid.* 13: 675–676.
- _____. 1883b. Die hummeln Steiermarks. Lebensgeschichte und beschreibung derselben. II Hälfte. 32 Jber., Steiermärk. Landes-oberrealsch., Graz. pp. 1–98, 3 pls. (No. 3, taf. IV–V.) (Separate, Part 2, original pagination, Leuschner & Lubensky, Graz, 1883.)
- _____. 1883c. Alte und neue beobachtungen über das familienleben der hummeln. *Mitt. naturw. Ver. Steierm.* (Grätz), pp. lvi–lxi.
- _____. 1884. Einige bisher unbekannte oder wenig bekannte hummelnester. *Kosmos* 14: 114–119.
- _____. 1885a. Neue hummelnester von den hochalpen. *Ibid.* 15: 291–300.
- _____. 1885b. Ueber einige hymenopteren aus der umgebung von Travnik in Bosnien. *Wien. ent. Ztg.* 4(h. 1): 11–14.
- _____. 1885c. Ein sehr lehrreiches nest des *Bombus terrestris* L. *Ibid.* 4(h. 3): 84–89.
- _____. 1886. Wunderbares erinnerungsvermögen der hummeln. Ein beitrag zur tierpsychologie. *Kosmos* 18: 111–115.
- _____. 1888. Beiträge zur hymenopterenkinde Steiermarks und der angrenzenden länder. *Mitt. naturw. Ver. Steierm.* 24: 65–100 (1887).
- _____. 1889. Die schmarotzerhummeln Steiermarks. Lebensgeschichte und beschreibung derselben. *Ibid.* 25: 82–159, 1 pl. (1888).
- _____. 1905. Ueber des farbenvariieren der hummeln. *Ibid.* 41: lxv–lxvii.
- Hoffmann, W. E. 1938. Coleoptera and Hymenoptera from Kwantung including Hainan Island. *Lingnan Sci. J.* 17(3): 439–460.
- Holdhaus, K. 1912. Kritisches verzeichnis der boreoalpinen tierformen (Glazielrelikte) der Mittel- und Südeuropäischen hochgebirge. *Ann. naturh. Hofmus., Wien* 26(3–4): 339–440.

1929. Die geographische verbreitung der insekten. In: Schroeder's Handbuch der entomologischen 2: 592–1058. Fischer, Jena.
- Holm, Sv. N. 1960. Experiments on the domestication of bumblebees (*Bombus Latr.*), in particular *B. lapidarius* L., and *B. terrestris* L. *K. vet.- og Landbohøjsk. Aarsskr.*, pp. 1–19. (Also, *Yb. R. Vet. agric. Coll.* (Copenhagen), same pagination.)
- Holm, Sv. N., and H. Haas. 1961. Erfahrungen und resultate dreijähriger domestikationsversuche mit hummeln. *Albrecht-Thaer-Arch.* 5(4): 282–304.
- Holmberg, E. L. 1879. Sobre las especie del genero *Bombus* halladas en la República Argentina. *Ann. Soc. cient. argent.* 8: 154–162.
1903. Delectus hymenopterologicus Argentinus. *An. Mus. nac. Buenos Aires*, Ser. 3, 9: 377–383.
- Holmgren, A. E. 1872. Insekter från Nordgrönland, samlade af Prof. W. E. Nordenskiöld år 1870. *Öfvers. K. VentensskAkad Förh.* 29(6): 97–105.
1883. [Hymenoptera and Diptera, pp. 139–161.] In: *Insecta a viris doctissimis nordenskiöld illum ducem sequentibus in insulis Waigatsch et Novaja Semlia anno 1875 collecta.* *Ent. Tidskr.*, Årg. 4, H. 3, pp. 139–194 (with C. Aurivillius).
- Hopkins, I. 1914. History of the humble-bee in New Zealand: Its introduction and results. *Bull. N.Z. Dep. Agric.*, No. 46 (n.s.), 29 pp. (With black and white photos of Sladen's 1912 col. pls. as follows: I, lower one-half of II, III, upper two-thirds of V.)
- Höppner, H. 1897a. Über zwei unbekannte oder weniger bekannte hummelnester. *Ent. Nachr.* 23(21): 313–316.
- 1897b. Ueber die bei Freissenbüttel vorkommenden farbenvarietäten des *Bombus soroensis* F. *Ibid.* 23(22): 329–331.
- 1901a. Bienenfauna der dünen und weserabhänge zwischen Uesen und Baden. *Abh. naturw. Ver. Bremen* 15: 231–255.
- 1901b. Weitere beiträge zur biologie nordwestdeutscher hymenopteren. II: Über das vorkommen mehrerer *Bombus*-arten in einem neste. *Allg. Z. Ent.* 6: 132–134, 1 fig.
1902. Weitere beiträge zur biologie nordwestdeutscher hymenopteren. VI: Über einige nestbauten des *Bombus soroensis* F., var. *proteus* Gerst. *Ibid.* 7(16): 298–301, taf. 2.
- Horber, E. 1961. Beitrag zur domestikation der hummeln. Untersuchungen über die natürliche überwinterung, die lagerung im kühlschrank und die kontinuierliche haltung ganzer völker von *Bombus hypnorum* L. (Apidae, Hym.). *Vjschr. naturf. Ges. Zürich* 106: 424–447.
- Howard, L. O. 1891. Exhibition of specimens. In: Proceedings, Entomological Society, Washington. *Insect Life* 3: 431.
1901. The insect book. XXVII + 429 pp., 48 pls., 264 figs. Doubleday, Page, New York.
1918. An unusual bumblebee's nest. *Ent. News* 29: 114–115.
- Howard, L. O., and W. F. Fiske. 1911. The importation into the United States of the parasites of the gipsy moth and the brown-tailed moth. *U.S. Dep. Agric., Bur. Ent. Bull.* 91, 344 pp. (p. 45.)
- Hüber, P. 1801. Observations on several species of the genus *Apis*, known by the name of humble-bees, and called Bombinatrices by Linnaeus. *Trans. Linn. Soc. Lond.* 6: 214–298, pls. 25–27.
- Hudson, G. V. 1918. *Bombus terrestris* L. at midwinter in New Zealand. *Entomologist's mon. Mag.* 4: 212.
- Hudson, W. H. 1892. Humblebees and other matters. (pp. 154–161.) In: The naturalist in La Plata, vii + 388 pp., 4 pls. Chapman & Hall, London.
- Hulkkonen, O. 1928. Zur biologie der Südfinnischen hummeln. *Ann. Univ. Åboensis (Turku)*, Ser. A, 3(1): 1–18.
- Ihering, R., v. 1903. Biologische beobachtungen an Brasilianischen *Bombus*-nestern. *Allg. Z. Ent.* 8: 447–453, 5 figs.
- Illiger, K. 1806. II. William Kirby's familien der bienenartigen insekten, mit zusätzungen, nachweisungen und bemerkungen. *Mag. Insektenk.* 5: 28–175.
- Ingham, A. G. 1948. Save the bumble bees. *Org. Gard.* 13(5): 49.
- Jackson, L. O. 1920. Bumblebees of District of Columbia and vicinity. *Proc. ent. Soc. Wash.* 22(7): 162–168.
- Jacob, B. 1901. La rareté des *Bombus* en Suisse—Question. *Feuille jeun. Nat.* 31(s. 4): 293.
- Jacobs-Jessen, U. F. 1959. Zur orientierung der hummeln und einiger anderer hymenopteren. *Z. vergl. Physiol.* 41(6): 597–641.

- Jacobson (Iakobsen), G. G. 1899. List of the insects of Novaya Zemlya. In: Compte rendu de l'expédition envoyé par l'Académie Impériale des Sciences à l'île de Novaïa Zemlia en été 1896. *Mem. Acad. Sci. St. Petersbourg*, Ser. 8, 8(4): 171-244. (Also, *Mem. Akad. nauk SSSR*, Ser. 8, Cl. phys.-math., 8: 171-244, 1898.)
- _____. 1955. Le nid et la nidification chez quelques abeilles des Andes tropicales. *Ann. Sci. nat.* (zoöl. ser. 11), *Paris* 17: 311-349, 22 figs.
- Jany, E. 1950. Der "Einbruch" von erdhummeln (*Bombus terrestris* L.) in die blüten der feuerbohne (*Phaseolus multiflorus* Willd.). *Z. argen. Ent.* 32: 172-183, 5 figs.
- Jarvis, T. D. 1906. Bumble-bees that fertilize the red clover. 36th Rep. ent. Soc. Ont. (Canada), pp. 128-129 (1905).
- _____. 1907. Two insects affecting red clover seed production. 37th Rep. ent. Soc. Ont. (Canada), pp. 41-45 (1906).
- Joergensen, P. 1909. Beobachtungen über blumenbesuch, biologie, verbreitung usw. der bienen von Mendoza (Hym.). Teil II. *Dt. ent. Z.*, H. 2, pp. 211-227.
- _____. 1911. Los crisiidios y los himenópteros aculeatos de la Provincia de Mendoza. *An. Mus. nac. Buenos Aires* 22: 267-338.
- _____. 1912. Revision der apiden der Provinz Mendoza, Republik Argentina. *Zoöl. Jb., abt. syst.* 32: 89-162.
- Johansen, F. 1910. I. General remarks on the life of insects and arachnids in northeast Greenland. In: Number 2, The insects of the Danmark [sic!] Expedition [to Greenland's northeast coast, 1906-1908]. *Meddr. Grönland* 43: 35-54, 5 figs.
- Jordan, R. 1936a. Ein weg zur zwangsläufigen nestgründung überwinterter *Bombus*-weibchen an einem bestimmten platz. *Arch. Bienenk.* 17: 39-44.
- _____. 1936b. Beobachtung der arbeitsteilung im hummelstaate (*Bombus muscorum*). *Ibid.* 17: 81-91.
- Jurine, L. 1801. (cf. Anon.)
- _____. 1807. Nouvelle méthode de classer les hyménoptères et les diptères. Hyménoptères. Volume 1, 319 + 4 pp., 14 pls. (col.). Paschoud, Genève.
- [Katter, F.J.] 1881. Schmiedeknecht, concerning "Zur speziesfrage". *Ent. Nachr.* 7(22): 321-323.
- [_____] 1882a. Hoffer, E. "Ueber den sogenannten trompeter in den hummelnestern". *Ibid.* 8(12): 178-182.
- [_____] 1882b. Hoffer, E. "Ueber die lebensweise des *Apathus (Psithyrus) campestris* Pz." *Ibid.* 8(12): 182-186.
- [_____] 1882c. Hoffer, E. "Die hummeln Steiermarks, lebensgeschichte und beschreibung derselben". *Ibid.* 8(18-19): 253-260.
- Keating, W. H. 1824. Narrative of an expedition to the source of St. Peter's River, Lake Winnepeek, Lake of the Woods, etc. . . . in . . . 1823 . . . under the command of S. H. Long. . . . Compiled from the notes of Major Long, Messrs. Say, Keating & Colhoun, by W. H. Keating. (Appendix) 2 vol. illust. 8°, London, 1825. Vol. II: Appendix. Pt. I contains: I. Zoology, by T. Say; II: Botany, by de Schweinitz.
- Kellicott, D. S. 1881. Observations and notes. *Bull. Buffalo Soc. nat. Sci.* 4: 31.
- _____. 1883. (See under Osborn.)
- Kellogg, V. L. 1905. American insects. vii + 674 pp. Holt, New York. (p. 519.)
- Kerr, W. E. 1960. Evolution of communication in bees and its role in speciation. *Evolution* 14(3): 386-387.
- Khan, M. A. 1957a. *Sphaerularia bombi* Duf. (Nematoda: Allantonematidae) infesting bumblebees and *Sphaerularia hastata* sp. nov. infesting bark beetles in Canada. *Can. J. Zool.* 35(4): 519-523.
- _____. 1957b. *Sphaerularia unguukecauda* sp. nov. (Nematoda: Allantonematidae) from the douglas fir beetle, *Dendroctonus pseudotsugae* Hopk., with key to *Sphaerularia* species (Emended). *Ibid.* 35(6): 635-639.
- Kirby, W. 1802. Monographia Apum Angliae. Vol. 1, xxii + 258 pp., 14 pls.; vol. 2, 388 pp., 4 pls. Ipswich, England. (Publ. by the author.)
- _____. 1824. Land invertebrate animals (Insects, pp. 214-219). In: A supplement to the appendix of Captain Perry's voyage for the discovery of a north-west passage, in the years 1819-20. An account of the subjects of natural history. pp. 181-310, (129), 6 pls. Murray, London.
- _____. 1837, Part 4, the insects. In: Richardson, Fauna Boreali-Americana; or the zoology of the northern parts of British America, etc. xxxix + 325 pp., 8 pls. Fletcher, Norwich.

- Kirby, W., and W. Spence. 1818. An introduction to entomology; or elements of the natural history of insects. Vol. 2, 529 pp. For Longman, Hurst, Rees, Orme & Brown by Taylors, London.
- Kirchner, L. [A.J.]. 1857. Die bienen des Budweiser Kreises. *Lotos* 7: 30–39, 49–55, 69–78, 121–126, 165–170, 180–190, 213–214, 228–234, 242–247, 1 taf.
- _____. 1867. Catalogus Hymenopterorum Europae. 285 pp. Vindobonae. (Herausgegeben zool-bot. Ges. Wien.)
- Kirchner, O. V. 1911. Blumen und insekten. 440 pp., 2 pls., 159 figs. Leipzig.
- Kivirikko, E. 1951. *Aphomia sociella* L. (Lep., Pyralidae) als bewohner von nistkästen. *Ann. ent. fenn.* 7: 207.
- Klapálek, F. 1905. Die hummeln Böhmens. *Arch. Landesdf. Bohmen* 12(3): [1]–57.
- Kloet, G. S., and W. D. Hincks. 1945. A check list of British insects. Iix + 483 pp. Stockport, England. (Publ. by the authors.)
- Klug, F. 1807. V. Kritische revision der bienengattungen in Fabricius neuem piezatensystems, etc. *Mag. Insekt.* 6: 200–228.
- Knechtel, W. K. 1939. Hummeln des bucegi Rumania. *Bull. Soc. Nat. Român., Bucharest*, No. 14, pp. 50–69, 2pls.
- _____. 1955. Fauna Republícii populare Romîne. Insecta. Hymenoptera subfamilia Apinae. *Acad. Rep. pop. Rom., Bucharest* 9(fasc. 1): 1–111, 46 figs.
- Kono, H., and K. Tomanuki. 1928. Insekten – ausbeute aus Nord-Sachalin. *Insecta matsum.* (Sapporo) 2(3): 128–129.
- Körner, L., and S. Zarapkin. 1938. Über gerichtete variabilität. VII. Die färbungsvariation bei *Bombus lapponicus* Fabr.–weibchen. *Z. Morph. Ökol. Tiere* 34: 739–752.
- Korckman, H. 1938. Havaintoja pölyttävien kimalaisten kielen pituudesta, työskentelytavasta ja -nopeudesta Tammistossa v. 1937. *Luon. Yst.* 42: 124–132.
- Krause, G. 1904. Zaunkönig, kuckuck, hummel. *Ornith. Monatschr.* 29(9): 365–368.
- Krausse, A. H. 1908a. *Bombus terrestris dettoi* m. *Int. ent. Z.* (Guben) 2(20): 132.
- _____. 1908b. Zwei neue hummelform aus Schweden: *Bombus pratorum aureus* m. und *Bombus soroënsis quattreicolor* m. *Ibid.* 2(20): 133.
- _____. 1908c. Eine neue hummelform von Sardinien: *Bombus hortorum arborensis* m. *Ibid.* 2(21): 139–140.
- _____. 1908d. Die formen von *Bombus terrestris* L. *Ibid.* 2(24): 163.
- _____. 1908e. Eine neue hummelform aus Lapland. *Bombus lapponicus pulchrior* m. *Ent. Wbl.* (Leipzig) 25: 76.
- _____. 1908f. Zwei neue hummelformen von Sardinien: *Bombus terrestris limbarae* m. und *Bombus terrestris gallurae* m. *Ibid.* 25: 78.
- _____. 1908g. Eine neue hummelformen von Sardinien: *Bombus hortorum Wolffii* m. *Ibid.* 25: 94.
- _____. 1908h. *Bombus hortorum Ichnusae* m. eine neue Sardische hummelform. *Ibid.* 25: 174.
- _____. 1908i. Eine neue Sardische hummelform: *Bombus hortorum Haeckeli* m. *Ibid.* 25: 174.
- _____. [Krauze]. 1908j. Bombologische notizen. *Societas ent.* 23(18): 138–140.
- _____. 1909a. Bombologische bemerkungen. I: Ueber *Bombus terrestris* L., speziell über die Sardisch-Corsischen formen dieser spezies. *Ibid.* 23(24): 185–187.
- _____. 1909b. *Idem.* II: Ueber *Bombus hortorum* L., speziell über die Sardisch-Corsischen formen dieser spezies. *Ibid.* 24(11): 85–87.
- _____. 1909c. Zur hummelfauna Sardinien und Corsicas. *Bol. Soc. ent. ital.* 40(trim. 3–4): 219–224 (1908).
- _____. 1909d. *Bombus hortorum Eleonorae* m. *Int. ent. Z.* (Guben) 3(3): 15.
- _____. 1910a. Hummelleben auf Sardinien. *Ent. Rdsch.* 27: 15–17.
- _____. 1910b. Hummelleben auf Sardinien in winter. *Ibid.* 27: 23–24.
- _____. 1911. *Bombus terrestris limbarae* A. H. Krausse, und *Bombus terrestris sardous* H. Friese. *Int. ent. Z.* (Guben) 5(29): 206.
- Kriechbaumer, J. 1854. Beiträge zur kennnniss Deutscher bienen. I. Die schmarotzerhummel. *Linn. Ent.* 9: 170–188.
- _____. 1870. Vier neue hummelarten. *Verh. zool.-bot. Ges. Wien* 20: 157–160.
- [J.] 1873. Bemerkungen über einige hummelarten. *Stettin. ent. Ztg* 34(7–9): 335–339.
- _____. 1876. Das studium der hymenopteren, X. *Ent. Nachr.* 11: 165–168.
- Kristensen, K. 1906a. Humlebierne (*Bombus*). *Flora fauna, Silkeborg* 8: 34–61.
- _____. 1906b. *Bombus pomorum*. *Ibid.* 8: 130–132.

- Kristof, L. 1883. "Eigene beobachtungen über das leben einheimischer hummeln" verbunden mit einer besprechung der darüber von Prof. Dr. E. Hoffer im 31. und 32. Jahresberichte der Steierm. Landes-Oberrealschule (1882-1883) veröffentlichten monographie. *Mitt. naturw. Ver. Steierm.*, pp. 64-74.
- Kröber, O. 1924. 35. Conopidae, pp. 1-48, 4 pls. In: Lindner, Die fliegen der Palaearktischen Region, Lief. 1.
- _____. 1930. Familie Conopidae (blasenkopffliegen), pp. 119-142, 40 figs. In: Dahls' and Bischoff's, Die tierwelt Deutschlands, etc., Teil 20.
- Krogh, A., and E. Zeuthen. 1941. The mechanism of flight preparation in some insects. *Fr. exp. Biol.* 18: 1-10.
- Krombein, K. V. 1947. An unnoticed subgeneric name in *Bombus*. *Proc. ent. Soc. Wash.* 49: 170.
- _____. 1959. Book review—"Bumblebees," by Free and Butler. *Science* 130: 975.
- Krombein, K. V., et al. 1958. Hymenoptera of America north of Mexico—synoptic catalog. *Agriculture Monogr.* 2, Suppl 1. 305 pp. (October.)
- Krombein, K. V., B. D. Burks, et al. 1967. *Ibid.* Suppl. 2. 584 pp. (February.)
- Kronfeld, M. 1888. Zur blumenstetigkeit der bienen und hummeln. *Verh. zool.-bot. Ges. Wien* 38: 785-786.
- _____. 1890. *Aconitum* und *Bombus*. *Bot. Jb.* 11: 19-20, 1 fig., 1 pl.
- Krüger, E. 1915. Biologisches von der hummel. *Verh. naturw. Ver. Ham.* 22: 49-50.
- _____. 1916. Untersuchungen zur natürlichen verwandtschaft der hummeln. *Ibid.* 23: 86.
- _____. 1917. Zur systematik der Mitteleuropäischen hummeln (Hym.). *Ent. Mitt.* 6: 55-66.
- _____. 1920. Beiträge zur systematik und morphologie der Mittel-europäischen hummeln. *Zool. Jb., abt. syst.* 42: 289-464, taf. 3-7, 8 figs.
- _____. 1924. Analytische studien zur morphologie der hummeln. No. 1. Die indices des kopfes der hummelweibchen. *Ibid.* 48: 1-128, 14 pls.
- _____. 1928. Über die farbenvariäten der hummelart *Bombus agrorum* F., I. Z. Morph. Ökol. Tiere 11: 361-494, figs. 1-95.
- _____. 1931. *Idem.* II. *Ibid.* 24: 148-237, figs. 1-50.
- _____. 1939. Die hummeln und schmarotzerhummeln von Sylt und dem benachbarten festland. *Schr. naturw. Ver. Schlesw.-Hols.* 23(h. 1): 28-123.
- _____. 1940. Ueber die farbenvariäten der hummelart *Bombus variabilis*. Z. Morph. Ökol. Tiere 37: 276-386, 1 pl., 71 figs.
- _____. 1949. Beobachtungen von der Insel Sylt. *Bombus*, No. 57, pp. 247-248.
- _____. 1951a. Phänoanalytische studien an einigen artender untergattung *Terrestribombus* O. Vogt. (Hymen. Bomb.). I Teil. *Tijdschr. Ent.* 93: 141-197, 22 figs. (1950).
- _____. 1951b. Ueber die bahnfluge der männchen der gattungen *Bombus* und *Psithyrus* (Bombidae, Hymenopt.). Z. Tierpsychol. 8: 61-75, 1 fig.
- _____. 1954. Phänoanalytische studien an einigen arten der untergattung *Terrestribombus* O. Vogt (Hymenoptera, Bombidae). II Teil. *Tijdschr. Ent.* 97: 263-298, 10 figs.
- _____. 1956. *Idem.*, *Ibid.* 99(1-2): 75-105.
- _____. 1958. *Idem.* (Hymenoptera, Bombiidae [sic!]). III Teil. *Ibid.* 101(3-4): 283-344.
- Kruseman, G. 1937. [A note on the occurrence of *Bombus jonellus* in Holland, with flight records.] *Tijdschr. Ent.* 80: 63-64 (*Verslag Ned. ent. Ver.*).
- _____. 1947. Tabellen tot het bepalen van de nederlandse soorten der genera *Bombus* Latr. en *Psithyrus* Lep. *Ibid.* 88: 173-188.
- _____. 1948. [In: "Korte mededelingen".] *Ent. Ber., Amst.* 12(282): 263-264.
- _____. 1950a. Note sur quelques races de *Bombus agrorum* (F.) nec Gmel. *Ibid.* 13: 43-47.
- _____. 1950b. Is *Bombus agrorum ramoniooides* Krug. a relict from Doggersland? *Proc. 8th int. Congr. Ent.*, pp. 427-428 (1948).
- _____. 1951. Afwijkende *Bombus terrestris* L. *Ent. Ber., Amst.* 13(309): 232.
- _____. 1952. Subgeneric division of the genus *Bombus* Latr. *Trans. 9th int. Congr. Ent.*, Vol. 1, pp. 101-102 (1951).
- _____. 1953a. *Psithyrus meridionalis* Rich., ab. *deboeri*, nov. ab. *Ent. Ber., Amst.* 14: 266.
- _____. 1953b. *Bombus laesus mocsaryi* Kriechb. trouvé en France. *Ibid.* 14: 266.
- _____. 1953c. *Psithyrus norvegicus* Sp.-Sn. *Ibid.* 14: 266.
- _____. 1953d. Note on *Bombus jonellus* (Kirby). *Ibid.* 14: 382.

- _____. 1955. Vindplaatsen van *Bombus magnus* Vogt in de collectie van het zoologisch museum te Amsterdam (Hym.). *Ibid.* 15: 398.
- _____. 1958a. *Bombus agrorum* (F.) in Sweden. *Opusc. ent.* 23(hfn. 1-2): 76.
- _____. 1958b. Notes sur les bourdons pyrénéens du genre *Bombus* dans les collections Néerlandaises. *Beaufortia* (Zool. Mus., Amsterdam) 6(72): 161-170, 1 pl. (col.).
- _____. 1959. Enkele zoogeografische opmerkingen over de hommelfauna van Zweden (Hym., Apid.). *Ent. Ber., Amst.* 19(1): 49-51.
- _____. 1960. Over regionale convergentie bij hommels (Hym., Bomb.). *Ibid.* 20(12): 241-243.
- _____. 1961. *Bombus confusus* Schenck dans les Pyrénées-orientales. *Vie Milieu* 11 (fasc. 4): 688 (1960).
- Kugler, H. 1943. Hummeln als blütenbesucher. *Ergebn. Biol.* 19:143-323.
- Kupchikova, L. M. 1954. [Pollination of red clover by bumblebees in the Komi, SSSR.] *Trans. Komi fil. an., SSSR* 2: 83-90. (Entirely in Russian.)
- _____. 1959. Nesting of bumblebees in the Komi, SSSR. *Ent. Obozr.* 38(3): 540-545. (In Russian; transl., "Entomological Review" 38(3): 484-490, 1960.)
- LaBerge, W. E. 1956. Catalogue of the types in the Snow Entomological Museum. Part I (Hymenoptera). *Univ. Kans. sci. Bull.* (Pt. I): 501-531.
- LaBerge, W., and M. C. Webb. 1962. The bumblebees of Nebraska. *Nebr. agric. Exp. Stn Res. Bull.* 205, 38 pp.
- Laidlaw, W. B. R. 1930. Notes on some humble bees and wasps in Scotland. *Scott. Nat.*, pp. 121-125, 135-136.
- _____. 1931a. Additional notes on humble bees in Scotland. *Ibid.*, pp. 23-24.
- _____. 1931b. Notes and observations on humble bees in Aberdeen. *Ibid.*, pp. 181-183.
- _____. 1932. Gynandromorphic form of *Bombus* and other notes on bees and wasps in Scotland. *Ibid.*, pp. 25-57.
- Landois, H. 1900. *Bombus lapidarius* in copula. *Westphal. Ver. Wiss. Kunst.* 28(Jber.): 28-29.
- Langhoffer, A. 1916. Blütenbiologische beobachtungen an apiden. III. *Bombus. Z. wiss. InsektsBiol.* 12: 310-318.
- Latreille, P. A. 1802. Histoire naturelle. Générale et particulière des crustacés et des insectes. Vol. 3, 467 pp. Dufart, Paris.
- _____. 1805. *Idem.* Vol. 13, 432 pp.; vol. 14, 432 pp. Dufart, Paris.
- Lavrekin, F. A. 1946. Polymorphism in honeybees and the problem of many queens. *Pchelovodstvo, Mosk.* 23(2-3): 28-34. (In Polish.)
- Laclercq, J. 1960. Fleurs butinées par les bourdons (Hym. Apidae, Bombinae) dans la région Liégeoise (1945-1959). *Bull. Inst. Agron. Stns Rech. Gembloux* 28(2): 180-198.
- Leech, H. B. 1947. A *Psithyrus insularis* queen in a *Bombus mixtus* nest. *Can. Ent.* 79: 134.
- Legge, M. M. 1937. Parasitic larvae in *B. terrestris* (L.). *Parasitology* 29: 524-525, 5 figs.
- Lehmensick, R. 1956. Erfolgreiche versuche zur hummelzucht in geschlossenen räumen. *Zool. Anz.* 157: 110-113.
- Leonard, M. D., et al. 1928. A list of the insects of New York, with a list of the spiders and certain other allied groups. *Cornell Univ. agric. Exp. Stn Mem.* 101, 1121 pp., 1 fig., 1 mp.
- Lepeletier (de St. Fargeau), A. L. M. 1832. Observations sur l'ouvrage institute "Bombi Scandinaviae Monographico Tractato", etc. *Ann. Soc. ent. Fr.* 1: 366-382.
- _____. 1836. Histoire naturelle des insectes. Hymén[optères]. Vol. 1, 547 pp. Roret (Libr. Encly.), Paris.
- _____. 1841. *Idem.* Vol. 2, pp. 1-690, and Atlas, 16 pp. (48 pls.)
- Lesse, H. d. 1952. Hymenoptera of French Polar Expedition 1949 to Greenland. *Bull. Soc. ent. Fr.* 57: 53-58.
- Leuchart, R. 1885a. Über die entwicklung der *Sphaerularia bombyi*. *Zool. Anz.* 8: 273-277.
- _____. 1885b. Über *Sphaerularia bombyi*. (Nachtrag und berichtigung.) *Ibid.* 8: 358.
- Leuckart, R. 1887. Neue beiträge zur kenntniss des baues und der lebensgeschichte der nematoden. *Abh. Sächs. Akad. Wiss. (Leipzig)* 22: 567-704, taf. 1-3.
- Lie-Pettersen, O. J. 1900. Bidrag til kundskaben om vestlandets *Bombus-* og *Psithyrus-* arter. *Bergens Mus. Årb.*, No. 3, 19 pp. (1901).

- _____. 1901. Biologische beobachtungen an Norwegischen hummeln. *Ibid.*, No. 6, pp. 3–10 (1902).
- _____. 1904. Entomologiske bidrag til skjærgårdsfaunaen i det vestlige Norge. *Ibid.*, No. 11, pp. 3–25 (1905).
- _____. 1906a. Lidt om vores humlebier og deres liv. *Naturen* 30: 193–213, 4 figs.
- _____. 1906b. Neue beiträge zur biologie die Norwegischen hummeln. *Bergens Mus. Årb.*, No. 9, pp. 1–42, 1 fig.
- Lindhard, E. 1911. Om rødkløverens bestøvning og de humlebiarter, som herved er virksomme. *Tidsskr. Plåvl* (København) 18: 719–737, 2 figs.
- _____. 1912. Humlebien som Husdyr. Spredte træk af nogle danske humlebiarters biologi. *Ibid.* 19: 335–352, 4 figs.
- _____. 1921. Om rødkloversracer med kort kronrør og blomsterbesøgende bier. *Ibid.* 27: 653–680, 5 figs.
- Lindroth, C. H. 1928. Zur land-evertebratenfauna islands, I. *Göteborgs K. Vetensk.-o. VitterhSamh. Handl.* 1(no. 6, ser. B, 5 föl.): 1–52.
- _____. 1931. Die insektenfauna islands und ihre probleme. *Zool. Bidrag, Uppsala* 13: 105–599.
- _____. 1957. The faunal connections between Europe and North America. 344 pp., 61 figs., 11 diagrs. Almqvist & Wilksell, Stockholm.
- Linné, C. 1746. Fauna Suecia. 24 unnumb. + 408 pp., 2 pls. Laurentii Salvii, Stockholmiae.
- _____. 1758. Systema naturae, 10th ed. 823 pp., + 1 p. emenda, + addenda. Laurentii Salvii, Holmiae.
- _____. 1760. *Idem.* 824 pp. Joannes Joachimus Langius, Praefatus, Halae Magdeburgiae. (Reprinting of above.)
- _____. 1761. Fauna Suecia. 45 unnumb. + 579 pp., 2 pls. Laurentii Salvii, Stockholmiae.
- _____. 1767. Systema naturae, 12th ed. Vol. 1(2), pp. 533–1327, + 36 unnumb. pp., + indexes, appendix, and addenda. Laurentii Salvii, Holmiae.
- _____. 1771. Regni animalis appendix, pp. 521–552. In: Mantissa plantarum altera (or Mant. plant., vol. 2), generum editionis VI. & specierum editionis II., 6 unnumb. pp. + 587 pp., 1 p. addenda. Laurentii Salvii, Holmiae.
- Linsley, E. G. 1944. Vernal flight of males in some western bumblebees, (Hymenoptera, Bombidae). *Bull. Brooklyn ent. Soc.* 39: 48–49.
- Linsley, E. G., and C. D. Michener. 1942. Notes on some Hymenoptera from the vicinity of Mt. Lassen, California. *Pan.-Pacif. Ent.* 18(1): 27–29.
- Lister, M. 1682. Johannes Godartius of insects, done into English and methodized, with the additions of notes. 140 pp., 144 pls. (Portrait by Persyn, and 14 pls. etched by Francis Place). (Bees, Sect. 5, pp. 95–101.)
- Løken, A. 1949. Bumble bees in relation to *Aconitum septentrionale* in central Norway (Oyer). *Nytt Mag. Naturvid.* 87: 1–60. *Idem.* 1950, *Norsk ent. Tidsskr.* 8: 1–16.
- _____. 1954. Observations of bumble bee activity during the solar eclipse, June 30, 1954. *Naturv. rekke*, No. 13, 6 pp. (Also, *Bergens Mus. Årb.*, 1954.) (Review in: *Glean. Bee Cul.*, 83(7): 424, 1955.)
- _____. 1958a. Pollination studies in apple orchards of western Norway. *Proc. 10th int. Congr. Ent.*, Vol. 4, pp. 961–965.
- _____. 1958b. *Bombus sylvarum* v. *nigrescens* Perez new to Norway (Hymenoptera, Apidae). *Norsk ent. Tidsskr.* 10(hfn. 4–5): 236–238.
- _____. 1960. Preliminary notes on Norwegian species of *Bombus* (Hymenoptera, Apidae). *Ibid.* 11(3): 107–110.
- _____. 1961. Observations on Norwegian bumble bee nests (Hymenoptera, Apidae, *Bombus*). *Ibid.* 11(hfn. 5–6): 255–268.
- _____. 1966. Notes on Fabrician species of *Bombus* Latr. and *Psithyrus* Lep., with designations of lectotypes (Hym., Apidae). *Ent. Meddr* 34(3): 199–206.
- _____. 1968. (See under Meidell.)
- Lord, J. K. 1866. The naturalist in Vancouver Island and British Columbia. vii + 375 pp. Bentley, London.
- Lovell, J. H. 1907. The bumble bees of southern Maine. *Ent. News* 18: 195–200.
- _____. 1918. The flower and the bee, plant life and pollination. xvii + 286 pp. Scribner's Sons, New York. (Also, Constable, London, 1919.)
- Lubbock, J. 1861. VI: On *Sphaerularia bombi*. *Nat. Hist. Rev.* 1: 44–57, pl. 1 (14 figs.).
- Lundbeck, W. 1891a. Notitser om Grønlands entomologiske fauna. *Ent. Meddr* 3: 45–52.

- 1891b. IV: Entomologiske undersøgelser i vest-Grønland, 1889 og 1890. *Medd. Grønl.* 7: 107–144, tav. v–vii.
1897. Hymenoptera Groenlandica. *Vidensk. Meddr dansk naturh. Foren. (Kjøbenhavn)*, pp. 220–251 (1896).
- Lutz, F. E. 1916. The geographic distribution of Bombidae (Hymenoptera), with notes on certain species of boreal America. *Bull. Am. Mus. nat. Hist.* 35: 501–521.
1935. Field book of insects. 510 pp., 100 pls. Putnam's Sons, New York. (pp. 436–441, 3rd ed.)
- Lutz, F. E., and T. D. A. Cockerell. 1920. Notes on the distribution and bibliography of North American bees of the families Apidae, Meliponidae, Bombidae, Euglossidae, and Anthophoridae. *Bull. Am. nat. Hist.* 42: 491–641.
- Maa, T. C. 1935. A list of hymenopterous insects collected at Shaoshan in 1933. *Entomology Phytopath.* (Hanchow) 3(9): 179–189.
1936. A new *Bombus* from Chekiang (Hym., Bombidae). *Ibid.* 4(20): 413–416.
1937. List of Chinese *Psithyrus*. *Ibid.* 5: 273–275.
1948. On some eastern Asiatic species of the genus *Psithyrus* Lepel. (Hymenoptera: Bombidae). *Mus. Heude (Notes Ent. chin.)* (Shanghai) 12(fasc. 3): 17–37, 23 figs.
1953. An inquiry into the systematics of the Tribus Apidini, or honeybees (Hym.). *Treubia* 21(3): 525–640.
- Macek, J. 1936. [Note on relaxing specimens, referred to by May (May 1941, q.v.).] *Čas. čsl. Spol. ent. (Acta Soc. ent. Bohem.)* 33(1–2): 94.
- MacDougall, R. S. 1929. A nest of *Bombus lapidarius* parasitised by *Psithyrus rupestris*. *Proc. R. ent. Soc. Lond.* 3(3): 80.
- MacGillivray, A. D. 1906. A study of the wings of the Tenthredinoidea, a superfamily of Hymenoptera. *Proc. U.S. nat. Mus.* 29(1438): 569–654, 44 pls. (p. 620.)
- Magnus, P. 1891. Eine kleine beobachtung über den besuch der blüthen des löwenmauls (*Antirrhinum majus* L.) durch hummeln. *Naturw. rdsch., Braunschwe.* 6: 383–384.
- Maidl, F. 1922. Beitrage zur hymenopterenfauna Dalmatiens, Montenegro und Albaniens. *Annln naturh. Mus. Wien* 35: 36–106.
- Manning, A. 1956. Some aspects of the foraging behaviour of bumble bees. *Behaviour* 9: 164–201.
- Maréchal, P. 1946. Notes biologiques. 27–30. (30. Remarques sur parasite des bourdons.) *Lambillionea* 46: 131–137.
- Marlatt, C. L. 1890. An ingenious method of collecting *Bombus* and *Psithyrus*. *Proc. ent. Soc. Wash.* 1: 216.
- Marschner, H. 1927. Ueber die hummeln des riesengebirges. *Societas ent.* (Stuttgart) 42: 33–34.
- Marshall, J. 1945. Justice for the bumblebees (*Bombus* spp.). *Collier's Mag.* 116: 34.
- Marshall, W. 1902. Allgemeines über den insektenstaat. Hummeln und meliponen. Hfn. 27 u. 28, pp. 1–42. Hochschul-Vorträge. Seele, Leipzig.
- Matsumura, S. 1911. Erster beitrag zur insekten-fauna von Sachalin. *J. Coll. Agric. (Tohoku) Hokkaido imp. Univ. (Sapporo)* 4(1): 1–145.
- Maurizio, A. 1953. Weitere untersuchungen an pollenhöschen. *Beih. schweiz. Bienenztg.* 2 (h. 20): 485–556.
- Mavromoustakis, G. A. 1949. On the bees (Hymenoptera, Apoidea) of Cyprus. Part I. *Ann. Mag. nat. Hist.*, Ser. 12, 1: 541–587 (1948).
- May, J. 1937. Bionomie rodu *Bombus* Latr. a *Psithyrus* Lep. (I.) *Čas. čsl. Spol. ent. (Acta Soc. ent. Bohem.)* 34: 115–116. (Also, German summary under title, Zur bionomie der gattungen *Bombus* Latr. und *Psithyrus* Lep. (I.). *Ibid.* 34: 116–118.)
1938. *Idem.* (II.) (Hym. Apid.). *Ibid.* 35: 71–80. (Followed by German summary under *idem.* (II.).)
1941. *Idem.* (III.) (Hym. Apid.). *Ibid.* 38: 49–53. (Followed by German summary under *idem.* (III.).)
1942. Subgenus *Allopsithyrus* Popov in Böhmen und Mähren (Hym. Apid.). *Sb. ent. Odd. Zem. Mus., Praze* 20: 223–231.
1943. Pačmeláci (*Psithyrinae*) v Čechách a na Moravě. *Čas. čsl. Spol. ent. (Acta Soc. ent. Bohem.)* 40: 11–29. (With German summary under title, Die schmarotzer-hummeln (*Psithyrinae*) in Böhmen und Mähren. (Hym. Apid.), *ibid.* 40: 22–29.)

- _____. 1943-1944. Beitrag zur systematik einiger arten der schmarotzer-hummeln—*Psithyrus* Lep. (Hymen. Apoid.). *Sb. ent. Odd. Zem. Mus., Praze* 21-22: 231-275.
- _____. 1948. Bionomie rodu *Bombus* Latr. a *Psithyrus* Lep. (IV)—Čmeláci v Krkonošich. (Bionomie des genres *Bombus* Latr. et *Psithyrus* Lep. (IV—Les bourdons dans les monts des Geants.) (Hym. Bombidae). *Čas. čsl. Spol. ent. (Acta Soc. ent. Bohem.)* 45(3-4): 146-155. (Czechoslovakian with French résumé, pp. 153-155.)
- _____. 1959. Čmeláci v CSR (Die hummeln der Tschechoslowakei). *CSAZV*, p. 170. (Czechoslovakian with Russian and German summaries.)
- Meade-Waldo, G. 1916. Notes on the Apidae (Hymenoptera) in the collection of the British Museum, with descriptions of new species. *Ann. Mag. nat. Hist.*, Ser. 8, 17: 448-470.
- Medler, J. T. 1957. Bumblebee ecology in relation to the pollination of alfalfa and red clover. *Insectes soc.* 4: 245-252.
- _____. 1958. Principles and methods for the utilization of bumblebees in cross-pollination of crops. *Proc. 10th int. Congr. Ent.*, Vol. 4, pp. 973-981.
- _____. 1959. A nest of *Bombus huntii* Greene (Hymenoptera). *Ent. News* 70: 179-182.
- _____. 1962a. Morphometric studies on bumble bees. *Ann. ent. Soc. Am.* 55: 212-218.
- _____. 1962b. Measurements of the labium radial cell of *Psithyrus* (Hymenoptera: Apidae). *Can. Ent.* 94(4): 444-447.
- _____. 1962c. Development and absorption of eggs in bumblebees (Hymenoptera: Apidae). *Ibid.* 94(8): 825-833.
- Meehan, T. 1902. Observations on the flowering of *Lobelia cardinalis* and *Lobelia syphilitica*. In: Contributions to the life-history of plants, No. XVI. *Proc. Acad. nat. Sci. Philad.* 54: 33-36.
- Meer Mohr, J. C. v. d. and M. A. Lieftinck. 1947. Over de biologie van *Antherophagus ludekingi* Grour. (Col.) in hommelenesten (*Bombus* Latr.) op Sumatra. *Tijdschr. Ent.* 88: 207-214 (1945).
- Meidell, O. 1934. Fra dagliglivet i et homlebol. *Naturen* 58: 85-95.
- _____. 1944. Notes on the pollination of *Melampyrum pratense* and the "honeystealing" of humble-bees and bees. *Bergens Mus. Årb.*, No. 11, 12 pp. (1946).
- _____. (Løken). 1968. *Bombus jonellus* (Kirby) (Hym., Apidae) has two generations in a season. *Norsk. ent. Tidssk.* 15(1): 31-32.
- Meijere, J. C. H. de. 1903. Beiträge zur kenntniss der biologie und der systematischen verwandtschaft der conopiden. *Tijdschr. Ent.* 46(afl. 4): 144-225 (1904).
- _____. 1912. Neue beiträge zur kenntniss der conopiden. *Ibid.* 55(afl. 3): 184-207.
- Mel'nicenko, A. N., V. N. Dmitrieva, E. A. Filimonova, and T. N. Chemina. 1949. [Case of facultative parasitism in bumblebee queens.] *Uchen. Zap. gorkov. gos. Univ.* 14: 73-79. (Entirely in Russian.)
- Memminger, E. R. 1887. Humblebees and *Rhododendron nudiflorum*. *Bot. Gaz.* 12: 142.
- Menge, [F.] A. 1856. Lebenszeichen vorweltlicher, im Bernstein eingeschlossener thiere. In: Progr. Petrischule, Danzig, pp. 1-32.
- Merriam, C. H. 1884. *Dicentra* punctured by humble-bees. *Bull. Torrey bot. Club* 2: 66.
- Méunier, F. 1888a. Prodrome pour servir à la monographie des espèces, variétés Belges, du genre *Bombus* Latr. *Naturalista sicil.* 7: 145, 245.
- _____. 1888b. Tableau dichotomique des espèces, variétés Belges du genre *Bombus* Latreille. *Ibid.* 7: 173-175.
- _____. 1888c. Tableau dichotomique des espèces, variétés Belges du genre *Psithyrus* Lep. *Ibid.* 7: 175-176.
- _____. 1890. Description d'une espèce nouvelle ou peu connue de *Bombus* d'Ecuador. *J. Sci. (Lisboa)* 11(2): 66.
- Michener, C. D. 1939. The distributional history of North American bees. *Proc. Sixth Pacif. Sci. Congr.* Vol. 4, pp. 297-303.
- _____. 1944. Comparative external morphology, phylogeny and a classification of the bees. (Hymenoptera). *Bull. Am. Mus. nat. Hist.* 82: 151-326, 259 figs.
- _____. 1947a. Bees of a limited area in southern Mississippi (Hymenoptera; Apoidea). *Am. Midl. Nat.* 38(2): 443-455.
- _____. 1947b. A character analysis of a solitary bee, *Hoplitis albifrons* (Hymenoptera, Megachilidae). *Evolution* 1(3): 172-185.

- 1953a. Comparative morphological and systematic studies of bee larvae with a key to the families of hymenopterous larvae. *Univ. Kans. sci. Bull.* 35(Pt. 2): 987-1102.
- 1953b. Problems in the development of social behavior and communications among insects. *Trans. Kans. Acad. Sci.* 56(1): 1-15.
- 1954a. Bees of Panama. *Bull. Am. Mus. nat. Hist.* 104: 1-175, 115 figs.
- 1954b. Observations on the pupae of bees (Hymenoptera; Apoidea). *Pan-Pacif. Ent.* 30: 63-70.
- 1958a. Morphologically meaningful vs descriptive terminologies for use by taxonomists, with comments on interordinal homologies of male genitalia. *Ibid.* 1: 583-585.
- 1958b. The evolution of social behavior in bees. *Proc. 10th int. Congr. Ent.* Vol. 2, pp. 441-447.
- Michener, C. D., and M. H. Michener. 1951. American social insects. xiv + 267 pp. Van Nostrand Co., Toronto, New York, London.
- Michener, C. D., and W. E. LaBerge. 1954. A large *Bombus* nest from Mexico. *Psyche, Camb.* 61: 63-67.
- Milliron, H. E. 1939. The taxonomy and distribution of Michigan Bombidae, with keys. *Mich. Acad. Sci.* 24(2): 168-182 (1940).
- 1960a. Recognition of bumblebee type specimens, with notes on some dubious names (Hymenoptera: Apidae). *Bull. Brooklyn ent. Soc.* 55(4): 87-99.
- 1960b. A gynandromorphic specimen of *Psithyrus fernaldae* Fkln. (Hymenoptera: Apidae). *Ibid.* 55(5): 109-113.
- 1961a. Revised classification of the bumblebees—a synopsis (Hymenoptera: Apidae). *J. Kans. ent. Soc.* 34(2): 49-61.
- 1961b. Notes on the nesting of *Bombus morio* (Swederus) (Hymenoptera: Apidae). *Can. Ent.* 93(11): 1017-1019.
- 1962a. A gynandromorph of *Bombus flavifrons* Cresson (Hymenoptera: Apidae). *Bull. Brooklyn ent. Soc.* 57(2): 45-46.
- 1962b. Taxonomic notes on some American bumblebees (Hymenoptera: Apidae; Bombinae). *Can. Ent.* 94(7): 728-735.
1967. A successful method for artificially hibernating *Megabombus f. fervidus* (F.). and notes, on a related species (Hymenoptera: Apidae; Bombinae). *Can. Ent.* 99: 1321-1332.
- Milliron, H. E., and D. R. Oliver. 1966. Bumblebees from northern Ellesmere Island, with observations on usurpation by *Megabombus hyperboreus* (Schönh.) (Hymenoptera: Apidae). *Can. Ent.* 98: 207-213.
- Mitchell, T. B. 1962. Bees of the eastern United States. Vol. 2. *N.C. agric. Exp. Stn Tech. Bull.* 152, 557 pp., 134 figs., 18 tabs.
- Miyamoto, S. 1955. (See under Taniguchi, 1955.)
- 1957a. Biological studies on Japanese bees IV. Behavior study on *Bombus ardens* Smith in early stage of nesting. *Sci. Rep., Hyogo Univ. Agric.* 3 (Ser. agric. biol.): 1-5.
- 1957b. *Idem.*, V. Behavior study on *Bombus ardens* Smith in developing stage of nest. *Ibid.* 3: 6-11.
- 1957c. *Idem.*, VI. Observations on the nest of *Bombus ardens* Smith. *Ibid.* 3 (1): 12-14.
- 1959a. On the individuality in the behavior of workers of *Bombus ardens* Smith and *Bombus diversus* Smith. *Akitu* 8(2): 35-36.
- 1959b. On the nest of *Bombus diversus* Smith which collapsed before completion (Biological studies on Japanese bees, XI). *Ibid.* 8(4): 85-90.
- 1959c. Biological studies on Japanese bees, IX. Relationship between bees and flowers (Part 2). *Jap. J. Ecol.* 9(6): 228-239.
1960. Observations on the behavior of *Bombus diversus* Smith (Biological studies on Japanese bees, XIII). *Insectes soc.* 7(1): 39-56.
- 1961a. Flower-visiting habits of bumblebees (Biological studies on Japanese bees, XIX). *Jap. J. appl. Ent. Zool.* 5(1): 28-38.
- 1961b. Comparative studies on the flower-visiting habits of Japanese bees (Biological studies on Japanese bees, XXV). *Jap. J. Ecol.* 11(1): 38-49.
1963. *Bombus ignitus* Smith. (On the nest of *Bombus ignitus* Smith.) *Kontyū* 31(1): 27-32.
- McLachlan, R. 1877. The insects of the Arctic Expedition. [Collection by Captain Feilden, the naturalist.] *Entomologist's mon. Mag.* 13: 181, 229.

- McLachlan (M'Lachlan), R. 1879. Report on the Insecta (including Arachnida) collected by Captain Feilden and Mr. Hart between the parallels at 78° and 83° north latitude, during the recent Arctic expedition. *J. Linn. Soc. (Zool.)* (London) **14**: 98–122.
- Mocsáry, A. 1892. Hymenoptera in Expeditione Comitis Belae Széchenyi in China et Tibet a Dom. G. Kreitner et Ludovico Lóczy anno 1879 collecta. *Természetr. Füz.* **15**(3 füzet.): 126–131.
- Moczár, L. 1938. Zur ökologie zweier apiden. *Zool. Anz.* **123**: 90–95.
- _____. 1947. Angaben zur ethologie des *Hoplomerus spinipes* L., *Bombus derhamellus* K. und *Megachile centuncularis* L. (Hym., Vespidae, and Apidae). *Folia ent. hung.* **2**: 13–17. (In Hungarian.)
- _____. 1953a. Faunnenkatalog der hummeln (*Bombus* Latr.) (Cat. Hym. IV). *Ibid.* **6** (n.s.): 197–228. (In Magyar with German summary.)
- _____. 1953b. Système et écologie des bourdons (*Bombus* Latr.) de la Hongrie et de ses régions voisines. *Annls hist.-nat. Mus. natn. hung.* (Budapest) **4** (n.s.): 131–159. (In Magyar with French summary.)
- Mohr, N. 1786. Forsog til en islandsk naturhistorie, med adskillige økonomiske samt andre anmarkninger. 413 pp., 7 pls. C. F. Holm, Kiobenhavn. (p. 93.)
- Montgomery, B. E. 1951. The status of bumblebees in relation to the pollination of red clover in New Zealand. *N.Z. Sci. Rev.* **10**(4): 47–50. (Reprint: Orig. publ. in *Proc. 6th Mtg., N.C. States Br., Am. Ass. econ. Ent.*, pp. 51–55.)
- _____. 1952. The management of bumblebees. *Am. Bee J.* **92**: 332–333.
- _____. 1956. The anthophilous insects of Indiana. 1: A preliminary annotated list of the Apoidea. *Proc. Indiana Acad. Sci.* **66**: 125–140.
- Morawitz, F. 1867a. Ein beitrag zur hymenopteren-fauna der Ober-Engadins. *Hor. Soc. ent. ross.* **5**: 39–71 (1868).
- _____. 1867b. Ueber einige faltenwespen und bienen aus der umgegend von Nizza. *Ibid.* **5**: 145–156 (1868).
- _____. 1869. Die bienen des gouvernements von St. Petersburg. *Ibid.* **6**: 27–71.
- _____. 1870. Beitrag zur bienenfauna Russlands. *Ibid.* **7**: 305–333.
- _____. 1871. Neue Südeuropäische bienen. *Ibid.* **8**: 201–231.
- _____. 1872a. Neue Südrußische bienen. *Ibid.* **9**: 45–62 (1873).
- _____. 1872b. Synonymische bemerkungen. *Ibid.* **9**: 63 (1873).
- _____. 1872c. Nachtrag zu den bienen des gouvernements St. Petersburg. *Ibid.* **9**: 151–159 (1873).
- _____. 1874. Die bienen Daghestans. *Ibid.* **10**: 129–189.
- _____. 1875a. Apidae. In: Fedtschenko [Expedition in Turkestan]. Vol. 2, Pt. 5, ii + 303 pp., 3 pls. (col.). St. Petersbourg. (In Russian.)
- _____. 1875b. Die bienen (Mellifera). In: Fedtschenko, Reise in Turkestan. Zoologischen Theil. Vol. 2, Ser. 9, Pt. 5, Fasc. I, p. 160. (cf. 1875a.)
- _____. 1876a. Compte rendu de l'excursion entomologique dans le Caucasus, 1875. *Hor. Soc. ent. ross.* **12**: vii–x, (bulletin) (1876–1877).
- _____. 1876b. Zur bienenfauna der Caucasusländer. *Ibid.* **12**: 3–69 (1876–1877).
- _____. 1877a. Die bienen (Mellifera). In: Fedtschenko, Reise in Turkestan. Zoologischen Theil. Vol. 2, Ser. 9, Pt. 5, Fasc. II, p. 144, tab. 3. (cf. 1875a.)
- _____. 1877b. Nachtrag zur bienenfauna Caucasiens. *Hor. Soc. ent. ross.* **14**: 1–112 (1878.)
- _____. 1880. Ein beitrag zur bienen-fauna Mittel-Asiens. *Bull. Acad. imp. Sci. (St. Petersbourg)* **26**: 333–389.
- _____. 1881. Die Russischen *Bombus*-arten in der sammlung der Kaiserlichen Akademie der Wissenschaften. *Ibid. (St. Petersbourg)* **27**: 213–265 (1882). (Also in: *Mélang. Biol. (St. Petersbourg)* **11**: 64–144.)
- _____. 1883a. Neue Russisch-Asiatische *Bombus*-arten. *Hor. Soc. ent. ross.* **17**: 235–245.
- _____. 1883b. Erwiderung auf die kritik des Herrn Radoszkowsky, Russische *Bombus*-arten betreffend. *Bull. Soc. imp. Nat. (Moscou)* **58**(Pt. 2): 28–35.
- _____. 1886. Insecta in itinere cl. N. Prezewalskii in Asia centrali novissime lecta. I: Apidae. *Hor. Soc. ent. ross.* **20**: 195–229.
- _____. 1888. Hymenoptera Aculeata nova. Descripsit. *Ibid.* **22**: 224–302.
- _____. 1890. Insecta a cl. G. N. Potanin in China et in Mongolia novissime lecta, XIV. Hymenoptera Aculeata II. *Ibid.* **24**: 349–385.
- _____. 1892. Hymenoptera Aculeata Rossica nova. *Ibid.* **26**: 132–181.
- _____. 1893. Supplement zur bienenfauna Turkestans. *Ibid.* **28**: 1–87 (1894).

- Morice, F. D., and J. H. Durant. 1914. XII: The authorship and first publication of the "Jurinean" genera of Hymenoptera; being a reprint of a long-lost work of Panzer's, with a translation into English, an introduction, and bibliographical and critical note. *Trans. R. ent. Soc. Lond.*, Pts. 3, 4, pp. 339–436 (1915).
- Morimoto, R., K. Iwata, and K. Yasumatsu. 1951. Observations on *Bombus diversus* Smith (Hymenoptera, Apidae). *Mushi* 22: 51–58, 2 figs.
- Morley, C. 1898. A list of the Hymenoptera-Aculeata of the Ipswich district. *Entomologist* 31: 12–17, 38–41.
- Morrill, A. W. 1903. New Apoidea from Montana. *Can. Ent.* 35: 222–226.
- Morse, R., and N. E. Gray. 1961. Insect invaders of the honeybee colony. *Bee World* 42 (7): 179–181.
- Motschulsky, V. 1859. VI. Métérologie entomologique pour St. Petersbourg, 1858. *Etud. ent. Helsingfor* 8: 176–187.
- Moure, J. S. (Pé. J.). 1943a. Algunas himenópteros Peruanos. *Bol. Mus. nat. Hist.*, "Javier Prado", (Lima) 7: 267–270.
- _____. 1943b. Abelhas de Batatais (Hym. Apoidea). *Arg. Mus. Paran.* 3: 145–203.
- _____. 1943c. Notas sobre abelhas da coleção Zikan (Hym. Apoidea). *Revta Ent., Rio de J.* 14: 447–484.
- _____. 1944a. Apoidea da coleção do Conde Amadeu A. Barbiellini (Hym. Apoidea). *Ibid.* 15(1–2): 1–18.
- _____. 1944b. Abelhas de Monte Alegre (Est. S. Paulo) (Hym. Apoidea). *Pap. Anal. (Dept. Zool., Sec. Agric.) S. Paulo* 6(10): 103–126.
- _____. 1944c. Abejas del Perú. *Bol. Mus. nat. Hist.*, "Javier Prado", (Lima) 8: 67–75.
- _____. 1946a. Notas sobre as Mamangabas. *Bol. Agric., Curitiba* 4 (Nos. 12–13): 3–32, 3 pls.
- _____. 1946b. *Idem*. *Ibid.* 5 (Nos. 12–13): 21–50.
- _____. 1947. Notas sobre algumas abejas de la Provincia de Salta (Hymen. Apoidea). *Revta Soc. ent. argent.* 13: 218–253.
- _____. 1948. Notas sobre algumas abejas de Tacanas, Tucuman, Argentina, I. (Hymenopt. Apoidea). *Revta Ent., Rio de J.* 19(1–2): 313–346.
- _____. 1949. *Idem*. II. *Ibid.* 20(1–3): 437–460.
- _____. 1960. Notes on the types of the neotropical bees described by Fabricius (Hymenoptera: Apoidea). *Studia ent.* 3 (fasc. 1–4): 97–160.
- Moure, J. S., P. Nogueira-Neto, and W. E. Kerr. 1958. Evolutionary problems among Meliponinae (Hymenoptera, Apidae). *Proc. 10th int. Congr. Ent.*, Vol. 2, pp. 481–493.
- Moure, J. S., and S. F. Sakagami. 1962. As mamangabas sociais do Brasil (*Bombus Latreille*) (Hymenoptera, Apoidea). *Studia ent.* 5 (fasc. 1–4): 65–194, 19 figs., 13 tabs., 5 mps.
- Muesebeck, C. F. W., K. V. Krombein, H. K. Townes, et al. 1951. Hymenoptera of America north of Mexico—synoptic catalog. *Agriculture Monogr.* 2, 1420 pp.
- Müller, H. 1871. Anwendung der Darwinistischen Lehre auf bienen. *Verh. naturh. Ver. preuss. Rheinl.* (Westphal.), pp. 1–96, 2 pls.
- _____. 1879. *Bombus mastrucatus*, ein dysteleolog unter den alpinen blumenbesuchern. *Kosmos* 5: 422–431.
- Müller, Hans. 1944. Beiträge zur Kenntnis der bienenfauna Sachsen (Hym. Apid.). *Mitt. Dt. ent. Ges.*, E. V., 13(5–10): 65–108.
- Müller, Hans, and M. Sieber. 1929. Die bienenfauna des oberen Sächsischen Erzgebirges. *Z. wiss. InsektoBiol.* 24: 50–57.
- Müller, M. 1913. Beiträge zur Kenntnis unserer hummeln. *Arch. Naturgesch.* 79 (Abt. A., h. 1): 118–123.
- _____. 1918. Über seltene märkische bienen und wespen in ihren Beziehungen zur heimischen Scholle. *Dt. ent. Z.* (hfn. 1–2), pp. 113–132.
- _____. 1931. Über seltene märkische bienen. (Apid. Hym.). *Mitt. Dt. ent. Ges.*, E. V., 2 (No. 6): 82–84.
- _____. 1935a. [Note.] In: Sitzungsberichte. *Ibid.* 6 (Nos. 5–10): 51 (1936).
- _____. 1935b. *Psithyrus barbutellus* Kirby und *P. maxillosus* Klug. (Apid., Hym.). *Ibid.* 6 (Nos. 5–10): 73–76 (1936).
- Müller, O. F. 1764. Fauna insectorum Fredrichsdalina, etc. xxiv + 96 pp. Hafniae et Lipsiae, [Germany].

- 1776. Zoologiae Danicae prodromus, seu animalium Daniae et Norvegiae indigenarum characteres, nomina, et synonyma imprimis popularium. 32 + 282 pp. Hal-lager, Hofniae.
- Munakata, M., and S. F. Sakagami. 1958. Zum verfliegen der hummeln unter den künstlich zusammengesetzten völkchen. *Kontyû* 26(1): 15–19.
- Munroe, E. 1956. Canada as an environment of insect life. *Can. Ent.* 88(7): 372–476.
- Murtfield, M. E. 1883. [Note.] In: *Proc. ent. Cl., A.A.A.S.* (See under Osborn.)
- Myers, J. G. 1935. Ethological observations on the citrus bee, *Trigona silvestriana* Vachal, and other neotropical bees (Hym., Apoidea). *Trans. R. ent. Soc. Lond.* 83(Pt. 1): 131–142.
- Nadig, A. (Sr. and Jr.). 1933. Beitrag zur kenntnis der hymenopteren fauna von Marokko und Westalgerien. Erster Teil: Apidae, Sphegidae, Vespidae. *Iber. naturf. Ges. Graubündens* (Chur.) 71(n. f.): 37–107, 4 figs.
- 1934. Beitrag zur kenntnis der orthopteren- und hymenopteren-fauna von Sardinien und Korsika. *Ibid.* 72(n.f.): 3–39, 2 figs.
- Neave, F. 1926. Notes on some Alberta Bombidae (Hymen.). *Ent. News* 37: 252–254.
- 1933. The Bremidae of Manitoba. *Can. J. Res.* 8: 62–73.
- Nevinson, E. B. 1923. The survival of *Bombus cullumanus* Kby. *Entomologist's mon. Mag.* 59:277.
- Newman, E. 1834. Attempted division of British insects into natural orders. *Ent. Mag.* 2: 379–431 (1835).
- Newport, G. 1837. On the temperature of insects and its connexion with the functions of respiration and circulation in this class of invertebrate animals. *Phil. Trans. R. Soc. (Lond.)*, pp. 259–338.
- Nielsen, E. T. 1938. Temperatures in a nest of *Bombus hypnorum* L. *Vidensk. Meddr dansk naturh. Foren.* (Kjøbenhavn) 102: 1–6.
- Nielsen, J. C. 1907. X. The insects of East-Greenland. In: Carlsbergfondets expedition til Ost- Grönland, udført; aarene 1898–1900 under ledelse af G. Amdrup. *Meddr Grönland* 29(2): 363–409.
- 1910. II: A catalogue of the insects of northeast Greenland with descriptions of some larvae. Part of: Nr. 2, The insects of the "Danmark" Expedition [to Greenland's northeast coast, 1906–1908]. *Ibid.* 43: 55–68, 2 pls.
- Niemela, P. 1948. Einige von der Kareischen landenge her nach Finnland in ausbreitung begriffene bienenarten (Hym.). *Ann. ent. fenn. (Suom. hyönt. Aikak.)* 13: 175–179 (1947). (In Finnish with German summary.)
- Nikol'skaya, M. N., and V. V. Popov. Hymenoptera. In: Animal world of the U.S.S.R. Vol. 5, pp. 318–351.
- Nordman, A. 1958. Humlornas starka decimering under de maritima betonade vintrarna på åland och följderna härv för klöverfröedlaren (Hym.). *Notul. ent.* 38(2): 51.
- Nørgaard, H. S. 1960. Experiments on the domestication of bumblebees (*Bombus Latr.*), in particular *B. lapidarius* L. and *B. terrestris* L. *K. vet.- og Landbohøisk. Aarskr.*, pp. 1–19.
- Nottidge, T. 1884. Note on the importation of humble-bees into New Zealand. *Proc. R. ent. Soc. Lond.*, p. 3.
- Nye, W. P., and G. E. Bohart. 1962. Observations of the visits of honey bees and bumble bees to bladder senna (*Colutea arborescens*). *Ann. ent. Soc. Am.* 55(2): 259–261.
- Nylander, W. 1848. Adnotationes in expositionem monographian apum borealium. *Not. Sällsk., fauna fl. fenn. Förh.* 1 (För. häf.): 165–282, 1 pl.
- 1852. Revisio synoptica apum borealium, comparatis speciebus. *Europae mediae. Ibid.* 1 (And. häf.): 225–286.
- Okamoto, H. 1924. The insect fauna of Quelpart Island. *Bull. agric. Exp. Stn, Gov.-Gen., Chosen* 1(2): i–iv, 47–233, 4 pls., 1 mp.
- Olafsen [Olafsson], E. & B. Povlsen [Palsson]. 1772. Reise igiennem Island—. Vol. 1, 10 + 618 pp., 41 pls. Jonas Lindgrens, Soröe. (p. 603.)
- Olivier, [A. G.]. 1789. Introduction (and A-Bom.). In: Encyclopédie méthodique. Histoire naturelle. Insectes. Vol. 4, pp. 1–331. Panckoucke, Paris & Plomteux, Liège.
- Olliff, A. S. 1895. Successful introduction of humble bees into New South Wales. *Entomologist's mon. Mag.* 31(s.1, or 6, s.2): 67.
- O'Rourke, F. J. 1955. *Bombus pratorum* L. in County Cork. *Ir. Nat. J.* 11: 337–338.
- 1956. The Bombidae of County Cork. *Ibid.* 12: 17–19.
- 1957a. *Bombus distinguendus* Mor. one of the rarer Irish bumble bees. *Ibid.* 12(7): 187–189. (Also as separate, pp. 1–2.)

- 1957b. A Dublin supplement; notes on the zoology of the Dublin area. *Ibid.* 12(7): 189-190.
- Osborn, H. 1883. In: Meeting of the Entomological Club of the American Association for the Advancement of Science [Proceedings]. *Can. Ent.* 15: 169-176.
- Osculati, G. 1850. Esplorazione delle regioni equatoriali lungo il napo ed il fume delle Amazzoni frammento di un viaggio fatto nelle due Americhe negli anni 1846-48. 320 pp., 11 pls. (col.) and 2 maps. Milano.
- Osorno, E., and H. Osorno. 1938. Notas biologicas sobre algunas especies de *Bombus* de los alrededores de Bogata, Colombia, Sud America. *Revta Ent., Rio de J.* 9(1-2): 31-39. (In Spanish.)
- Osorno-Mesa, E., and H. Osorno-Mesa. 1961. Annotations on the social bees of the family Bombidae. *Acad. Col. Cien. Exact., fis., Nat. Rev.* 11(43): 213-214. (In Spanish.)
- Packard, A. S. 1865. The humble bees of New England and their parasites; with notices of a new species of *Anthophorabia*, and a new genus of Proctotrupidae. *Proc. Essex Inst. (Salem)* 4: 107-140, 1 pl.
1868. The home of the bees. *Am. Nat.* 1: 364-378, 596-606, 1 pl., 4 figs.
1870. Guide to the study of insects, etc. 2nd ed., viii + 702 pp. Naturalist's Book Agency, Salem; Trübner, London.
- 1877a. Explorations of the Polaris Expedition to the North Pole. *Am. Nat.* 11: 51-53.
- 1877b. The insects of the American ("Polaris") Arctic Expedition. *Entomologist's mon. Mag.* 13: 228-229.
1897. Notes on the transformations of the higher Hymenoptera, III. *Jl N.Y. ent. Soc.* 5: 109-120.
- Pallas, P. S. 1771. Reise durch verschiedene provinzen des Russischen Reichs in den jahren 1768-1769. Vol. 1, 504 pp., + 25 copper pls. (Anhang: Descriptiones fugitivae animalium atque plantarum annis 1768 et 1769 observatorum, pp. 453-504; *fragrans*, pp. 178 and 474.) Akad. Buchhandlung, St. Petersburg. (Also the 1788 French version, vol. 1, 706 pp. + appendix, pp. 707-773 + 2 pp. errata, no pls. La Grange, by Ballard et Fils, Paris.) (*fragrans*, pp. 242 and 735.)
- Palm, N. B. 1948a. Normal and pathological histology of the ovaries in *Bombus* Latr. (Hymenopt.) with notes on the hormonal interrelations between the ovaries and the *corpora alata*. *Opusc. ent.*, suppl. VII, pp. [1] 3-101.
- 1948b. Parasitic action on *Bombus* queens. *Proc. 8th int. Congr. Ent.*, pp. 289-292, 2 figs. (1950).
1949. The pharyngeal gland in *Bombus* Latr. and *Psithyrus* Lep., with a description of a case of pathological development of the pharyngeal gland. *Opusc. ent.* 14: 27-47, 8 figs.
- Palmer, R. 1923. Occurrence of *Bombus cullumanus* (Kirby) in Bedfordshire. *Entomologist's mon. Mag.* 59: 277.
- Panfilov, D. V. 1951. Bumblebees of the subgenus *Cullumanobombus* Vogt (Hymenoptera, Apoidea). *Trudy vses. ént. Obshch.* (Akad. nauk SSSR, Moscow) 43: 115-128, 7 figs. (In Russian.)
1956. Contribution to the taxonomy of bumblebees (Hymenoptera, Bombinae), including description of new forms. *Zool. Zh. (Moscow)* 35: 1325-1334, 3 figs. (In Russian with English summary on p. 5 in suppl.)
- Panzer, G. W. F. 1801a. (See under Anon. 1801.)
- 1801b. Faunae insectorum Germaniae initia, oder Deutschlands insecten, etc. 7 Jahrg., Hfn. 73-84. Nürnberg.
1805. *Idem, Ibid.* 8 Jahrg., Hfn. 85-96, + 15 pp. Index Systematicus. Nürnberg (1801-1805).
1806. Kritische revisions der insektenfaune Deutschlands. Bd. II, 12 unnumb. + 271 pp., 2 pls. Nürnberg.
- Parks, H. B. 1919. A bumblebee's nest. *Am. Bee J.* 59(12): 410-411.
- Patton, W. H. 1879. List of a collection of aculeate Hymenoptera made by Mr. S. W. Williston in northwestern Kansas. *U.S. geol. geog. Surv. Bull.* 5(3): 349-370.
- Pawlowsky, E. N. 1911. Zur kenntnis des anatomisch-histologischen baues des geschlechtsapparates der hymenopteren, I. Das männliche geschlechtsapparat von *Bombus*-arten. *Rev. russ. ent.* 11(2): 221-234. (In Russian with German summary.)
- Pedersen, M. W., and G. E. Bohart. 1950. Using bumblebees in cages as pollinators for small seed plots. *Agron. J.* 42(10): 608.

- _____. 1953. Factors responsible for the attractiveness of various clones of alfalfa to pollen-collecting bumble bees. *Ibid.* **45**(11): 548–551.
- Pendlebury, H. M. 1923. Four new species of *Bombus* from the Malay Peninsula. *J. fed. Malay St. Mus. (Kuala Lumpur)* **11**: 64–67.
- Pérèz, J. 1879. Contribution à la faune des apiaires de France. 1^{re} partie. *Acta Soc. Linn. (Bordeaux)* **33**: 119–229.
- _____. 1883. *Idem*, 2^{me} partie. Parasites. *Ibid.* **37**: 205–380, 2 pls.
- _____. 1890a. Catalogue des mellifères du sud-ouest. *Ibid.* **44**: 133–200.
- _____. 1890b. Sur la faune apidologique du sud-ouest de la France. *C. r. Ass. fr. Avanc. Sci.* **111**: 991–993.
- _____. 1894. De l'organe copulateur mâle des hyménoptères et de sa valeur taxonomique. *Ann. Soc. ent. Fr.* **63**: 74–81, 8 figs.
- _____. 1895. Voyage de M. Ch. Alluaud aus îles Canaries (Novembre 1889–Juin 1890). Hyménoptères. *Ibid.* **64**: 191–201.
- _____. 1905. Hyménoptères recueillis dans le Japon central, par M. Harmand, ministre plénipotentiaire de France à Tokio. *Bull. Mus. natn. Hist. nat., Paris*, pp. 23–39. (Also, pp. 79–87, 148–157, *ibid.*)
- _____. 1909. Sur quelques variétés de bourdons de la Corse. *Acta Soc. Linn. (Bordeaux)* **72**: clvii–clix.
- Pérez, M. Q. 1927. Los apidos de Espana género *Bombus* Latr. *Ann. Inst. Nac.*, 2^a ensen., Valencia, *Trab. lab. hist. Nat.*, No. 16, 121 pp. (including 10 pls. and index).
- _____. (Quilis Pérez). 1932. Los Psithyros Espanóles. *Eos (Madrid)* **8**: 185–222.
- Perkins, R. C. L. 1890. The distribution of *Bombus smithianus*, White. *Entomologist's mon. Mag.* **26**: 111.
- _____. 1921. Variation in British *Psithyrus* and remarks on *Bombus pomorum*. *Ibid.* **57**: 82–87.
- Petch, C. E. 1939. General index to the 38 annual reports of the Entomological Society of Ontario, 1900–1937. (*Bombus*, pp. 38–39.) Ont. [Canada] Dep. Agric., 267 pp.
- Petersen, B. 1956. The zoology of Iceland, Hymenoptera. Vol. 3, Pts. 49–50, 176 pp. Munksgaard, Kjøbenhavn, and Reykjavik.
- Pfeiffer, I. 1846. Reise nach dem Skandinavischen Norden und der insel Island im Jahre 1845. 2 vols., Budapest. Arthropods, vol. 2, pp. 256–258 (p. 258). (Also, 1852 English version "A visit to Iceland and the Scandinavian North". 354 pp., Ingram, Cooke, London, p. 273.)
- Pitelka, F. A. 1954. Use of a bird nest by bumblebee. *Pan-Pacif. Ent.* **30**(3): 220.
- Pittioni, B. 1937a. Der blütenbesuch der alpenhummeln. *Bl. Naturk. Naturschutz Nieder-öst.* **24**(10): 138–141.
- _____. 1937b. Hummelfauna des Kalsbachtales in Ost-Tirol. Ein beitrag zur ökologie und systematik der hummeln Mitteleuropas. *Festschrift zum 60 geburst. Embrik Strand*, **3**: 64–122, 45 figs., 2 geogr. profiles, 2 tabs. and 1 mp.
- _____. 1937c. Eine hummelausbeute aus dem Elburs-Gebirge (Iran). Ein beitrag zur kennnis der paläarktischen hummeln und schmarotzer-hummeln. *Konowia* **16**(h. 2): 113–129.
- _____. 1938a. Die hummeln und schmarotzerhummeln der Balkan-Halbinsel mit besonderer berücksichtigung der fauna Bulgariens. I: Allgemeiner Teil. *Mitt. kgl. nat. Inst., Sofia* **11**: 12–69.
- _____. 1938b. Neue und wenig bekannte hummeln der Paläarktis (Hymenopt., Apidae). *Konowia* **17**(2–3): 244–263, Taf. I–II (1939).
- _____. 1939a. Die hummeln und schmarotzerhummeln der Balkan-Halbinsel mit besonderer berücksichtigung der fauna Bulgariens. II: Specieller Teil. *Mitt. kgl. nat. Inst., Sofia* **12**: 49–122, incl. Taf. I–IV.
- _____. 1939b. *Bombus (Agrobombus) Bureschi* sp. nov., eine neue hummelart von der Balkanhalbinsel und einige weitere interessante neue hummelformen. *Arb. bulg. naturf. Ges.* **18**: 81–90.
- _____. 1939c. *Tanguticobombus* subg. nov. (Hymenopt. Apidae). *Zool. Anz.* **126**(7–8): 201–205.
- _____. 1940a. Die hummeln und schmarotzerhummeln von Venezia Tridentina. 2: Beitrag zur zoogeographischen erforschung der ostalpen und zur oekologie der gattungen *Bombus* und *Psithyrus*. *Memorie Mus. Stor. nat. Venezia trident.* (Trento) **5**(1): 3–44.
- _____. 1940b. Analytische untersuchungen an die hummelfauna des Witoscha—und Ljulin—gebiete in Bulgarien. Eine zoogeographisch–ökologische studie. *Mitt. bulg. ent. Ges., Sofia* **11**: 101–137.

1941. Die variabilität des *Bombus agrorum* F. in Bulgarien. Eine variatiens-statistische untersuchung unter berücksichtigung geographischer und ökologischer factoren. *Mitt. kgl. nat. Inst., Sofia* 14: 238–311, 27 figs.
- 1942a. Hummeln als blütenbesucher. *Mitt. bulg. ent. Ges.* 12: 63–126, 3 figs.
- 1942b. Die borealpine hummeln und schmarotzerhummeln. I: Teil. (Hym., Apidae, Bombinae). *Mitt. kgl. nat. Inst., Sofia* 15: 155–218.
- 1942c. *Idem*. II: Teil. *Ibid.* 16: 1–78, 21 figs., 5 mps. (1943). (Also, *Mitt. bulg. ent. Ges.* 13: 1–77, 1943.)
1949. Beiträge zur kennntnis der bienenfauna So.–Chinas. Die hummeln und schmarotzerhummeln der ausbeute J. Klapperich (1937–38) (Hym., Apoidea, Bombini). *Eos* (Madrid) 25: 241–284, 3 figs.
1950. Das problem der formenbildung. Ein deutungsversuch mit hilfe der klimaökologischen formel. *Bonn. zool. Beitr.* 1: 254–261 (1951).
1953. Eine bienenausbeute aus Apulien (Hymenoptera, Apidae). *Memorie Biogeogr. adriat.* (Venice) 2: 49–62, 5 figs.
- Pittioni, B., and R. Schmidt. 1942. Die bienen des südöstlichen Niederdonau. I: Apidae, Podaliridae, Xylocopidae und Ceratinidae. *Natur Kult., Niederdonau*, H. 19, pp. 1–41. Kühne, Leipzig.
- Plateau, F. 1902. L'ablation des antennes chez les bourdons et les appréciations d'Auguste Forel. *Ann. Soc. ent. Belg.* 46: 414–426.
- Plath, O. E. 1922a. A unique method of defense of *Bremus (Bombus) fervidus* Fabricius. *Psyche, Camb.* 29: 180–187.
- 1922b. Notes on *Psithyrus*, with records of two new American hosts. *Biol. Bull.* 43: 23–44, 1 pl.
- 1922c. Notes on the nesting habits of several north American bumblebees. *Psyche, Camb.* 29: 189–202.
- 1923a. Observations on the so-called trumpeter in bumblebee colonies. *Ibid.* 30: 145–154.
- 1923b. Breeding experiments with confined *Bremus (Bombus)* queens. *Biol. Bull.* 45(6): 325–341.
- 1923c. The bee-eating proclivity of the skunk. *Am. Nat.* 57: 571–574.
- 1923d. Notes on the egg-eating habits of bumblebees. *Psyche, Camb.* 30: 193–202.
- 1924a. Do anaesthetized bees lose their memory? *Am. Nat.* 58: 162–166.
- 1924b. Miscellaneous biological observations on bumblebees. *Biol. Bull.* 47(2): 65–78.
1925. The role of bumblebees in the pollination of certain cultivated plants. *Am. Nat.* 59: 441–451.
- 1927a. Notes on the nesting habits of some of the less common New England bumblebees. *Psyche, Camb.* 34: 122–127, 2 figs.
- 1927b. *Psithyrus laboriosus*, an unwelcome guest in the hives of *Apis mellifica*. *Bull. Brooklyn ent. Soc.* 22: 121–125, 2 figs.
- 1927c. Notes on the hibernation of several North American bumblebees. *Ann. ent. Soc. Am.* 20: 181–191.
- 1927d. Natural grouping of Bremidae (Bombidae) with special reference to biological characters. *Biol. Bull.* 52(5): 394–410, 6 figs.
1934. Bumblebees and their ways. xvi + 201 pp. Macmillan, New York.
- Poda, N. 1761. Insecta Musei Graecensis, etc. 6 unnumb. pp. + 127 pp. + 12 unnumb. pp. (index and errata), 2 pls. Widmanstadii, Graecii. (Facs. ed., Junk, Berlin, 1915.)
- Pohjakallio, O. 1938. Kimalainen puna-apilan pölyttäjänä. *Luon. Yst.* 42: 61–67.
- Pohjakallio, O., K. Multamäki, and S. Nuorvala. 1937. Puna-apilan jaloustusteknilliisiä. *Valt. maatalouskoet. julk.* (Staat. Landwirts. Versuch.), No. 93, pp. [1]–66. (With German summary.)
- Poole, T. B. 1952. Bumble bees. *Amat. Ent.* 11: 9–10, 19–20, 27–29, 38–40, 45–47, 78–79, 87–90, 96–98, 104–105, 111–114. [Series corporated, 1953, with minor substits, addits. of figs. as "Collecting bumble bees"; cf. A.E.S., Lft. 25, 20 pp., 2 col. pls. London.]
- Popov, V. B. (Also, V. and V. V.) 1923. Contribution à l'étude de la faune des bourdons des environs d'Ekatheinbourg (Hymenoptera, Bombidae et Psithyridae). *Ann. Univ. Oural* 3: 259–268. [Also, Contribution on the bumble bee fauna in the Yekaterinburg area (Hymenoptera, Bombidae and Psithyridae). *Isv. Urol'sk. Gos. Univ.* 3: 259–268.]
- 1924a. Forme nouvelle de *Bombus* de l'Ural (Hymenoptera, Bombidae). *Russ. ent. Obozr.* 18: 255–256.

- 1924b. [Individual tendencies in bumble bee coloration (Hymenoptera, Bomidae).] *Zap. ural'. Obshch. Lyub. Yestestvozn.* 39: 115–116. (Entirely in Russian.)
- 1927a. New forms of the genus *Psithyrus*, Lep. *Konowia* 6: 267–274.
- 1927b. Zur geographischen verbreitung von *Psithyrus vestalis* Fourcr. und *Psithyrus distinctus* Pér. *Rev. russ. Ent.* 21: 128–132.
1930. [Note on *Agrobombus smithianus* White (Hymenoptera, Bombidae).] *Ibid.* 24(1–2): 95–99, 5 figs. (English translation in: *Russ. ent. Obozr.* 24: 95–99, 5 figs.)
1931. Zur kenntnis der Paläarktischen schmarotzerhummeln (*Psithyrus* Lep.). *Eos, Madr.* 7(2): 131–209, 26 figs.
- 1934a. Notiz über *Psithyrus naipatchianus* (Matsumura) (Hymenoptera, Bomidae). *Mushi* 7(1): 1–2.
- 1934b. [Die bienenfauna des Kortschetaver gebiets in nördlichen Kuzaxstan.] *Arb. kazast. Stützp., Acad. wiss. USSR*, (Leningrad) Lf. 1, pp. 51–63. (In Russian.)
1935. [Beiträge zur bienenfauna von Tadzhikistan (Hymenoptera, Apidae).] *Trav. fil., Acad. Sci., USSR* (Tadzhikistan), No. 5, pp. 351–408. (In Russian.)
- 1936a. Beiträge zur synonymie einiger bienenarten. *Konowia* 15 (hfn. 3–4): 159–161.
- 1936b. [Bees of the genus *Psithyrus* Lep. from Prof. Fr. Klapálek's collection, (Hymenoptera, Apidae).] *Sb. ent. Odd Zem. Mus. Praze* 14: 200–203.
1937. [Some peculiarities of the geographical distribution and variation of *Psithyrus rupestris* F., in connection with the distribution and variation of the genus *Lapidariobombus* Vogt, (Hymenoptera, Apidae).] *Zool. J., Moscow* 16(4): 664–676. (In Russian.)
1945. [Parasitism in bees, its characteristics and evolution.] *Zh. obshch. Biol.* 6 (3): 183–204. (In Russian.)
1948. [Interspecific and intergeneric parasitism and evolution of Hymenoptera.] *Dokl. Akad. Nauk SSSR* 60: 745–748. (In Russian.)
- 1951a. [Bumblebees, pp. 158–174. In: The Kondar Pass—an experimental biological monograph.] *Izd. Akad. nauk. SSSR* (Moscow–Leningrad). (In Russian.)
- 1951b. [The importance of bees in lucerne pollination.] *Tr. vsesoyuzn. ent. Obshch.* 43: 65–82. (In Russian.)
- 1952a. [The bee fauna (Hymenoptera, Apoidea) of southwestern Turkmenia and its ecological distribution.] *Tr. zool. Inst., Akad. nauk SSSR* 10: 61–117, 13 figs. Leningrad. (In Russian.)
- 1952b. [Fauna of Apidae and its distribution in the central part of the state forest strip, Mount Vishnevaya to the Caspian Sea.] *Ibid.* 11: 142–165. (In Russian.)
1954. [On the fauna of bees (Hymenoptera, Apoidea) in the southern part of western Oblast.] *Ibid.* 16: 351–374. (In Russian.)
1958. Hymenoptera. In: Animal world of the U.S.S.R. (Mountainous regions of the European part of the U.S.S.R.) Vol. 5, pp. 100–115.
1960. [On Radozkowski's collection of Hymenoptera.] *Ent. Rev., Akad. nauk SSSR* 39: 237. (In Russian.)
1967. Bees (Hymenoptera, Apoidea) of central Asia and their host plants. *Akad. Nauk SSSR* (Zool. Inst. Tr.) 38: 11–329. (In Russian.)
- Postner, M. 1952. Biologisch-ökologische untersuchungen an hummeln und ihren nestern. *Vöreff. Mus. nat.-völk.-handl., Bremen* (A) 2(1): 45–86, 2 mps.
1953. Kopulationsverhalten bei den gattungen *Bombus* und *Psithyrus* (Apidae, Hymenoptera). *Zool. Anz.* 151: 300–306, 5 figs.
- Poulton, E. B. 1904. (See Saunders, 1904.)
- Pouvreau, A. 1962. A contribution to the study of *Sphaerularia bombi* (Nematoda, Tylenchida), a parasite of *Bombus* queens. *Annls Abeille* 5(3): 181–189. (In French with English summary.)
- 1963a. On the presence of *Sphaerularia bombi* (Nematoda, Tylenchida, Allantomatidae) in the genus *Psithyrus* (Hymenoptera, Apidae, Psithyrinae). *C. r. Acad. Sci. (Paris)* 256(1): 282–283.
- 1963b. Observations sur l'accouplement de *Bombus hypnorum* L. (Hyménoptère, Apidae) en serre. *Insectes soc.* 10(2): 111–118. (With summaries in German and English.)
- Pringle, J. W. S. 1961. The flight of the bumblebee. *Nat. Hist.* 70(7): 20–29.
- Procter, W. 1946. Biological survey of the Mount Desert Region. The insect fauna. 566 pp. Wistar Inst., Phila. (Revised.)

- Provancher, L. 1882. Fauna Canadienne. *Naturaliste can.* 13 (No. 153): 265–269. (Bombinae only.)
- _____. 1883. Petite faune entomologique du Canada, particulièrement de la Province de Québec. Hyménoptères. Vol. 2, vii + v + 830 pp. Darveau, Québec. (Bombinae, pp. 733–737.)
- _____. 1886–1889. Additions et corrections. To: Faune entomologique du Canada, hyménoptères, volume 2. 475 pp., + 1 p. errata. Darveau, Québec. (Bombinae, pp. 342–345, 1888.)
- Putnam, F. W. 1864. Notes on the habits of some species of humble-bees. *Proc. Essex Inst., Salem* 4: 98–104.
- Radoszkowski (Also, Radoszkowsky), O. 1859. Sur quelques hyménoptères nouveaux ou peu connus de la collection du musée de l'Académie des Sciences de St. Petersbourg. *Bull. Soc. imp. Nat., Moscou* 32 (Pt. 2, no. 4): 479–486, tab. 5 (col.).
- _____. 1862. *Idem.* *Ibid.* 35(Pt. 1): 589–598, tab. 6.
- _____. 1867a. Matériaux pour servir à l'étude des insectes de la Russie. IV: Notes sur quelques hyménoptères de la tribu apides. *Hor. Soc. ent. ross.* 5: 73–90, pl. 3 (1868). (Also as separate, pp. 1–18.)
- _____. 1867b. In: Miscellanea. *Ibid.* 5(1): 167.
- _____. 1874. Matériaux pour servir à une faune hyménoptérologique de la Russie. *Ibid.* 10(2–3): 190–195. (Also as separate, pp. 1–6.)
- _____. 1876a. In: Séance de la Société Entomologique de Russie, du 6(18) Octobre, 1875. *Ibid.* 12: xii.
- _____. 1876b. Matériaux pour servir à une faune hyménoptérologique de la Russie. (Suite.) *Ibid.* 12(1): 82–110, pl. 2. (Also as separate, pp. 1–29, 1 pl.)
- _____. 1877a. In: Séance du 3 (15) Mai, 1876, de la Société Entomologique de Russie. *Ibid.* 13: vii–viii.
- _____. 1877b. Essai d'une nouvelle méthode pour faciliter la détermination des espèces appartenant au genre *Bombus*. *Bull. Soc. imp. Nat., Moscou* 52(Pt. 2): 169–219, pls. iia, iib. (1878). (Also appeared as separate, diff. pgd.) (For original announcement of intention of this work see *In: Séance de la Société Entomologique de Russie*, du 8 (20) Avril, 1874. *Hor. Soc. ent. ross.* 11: vi, 1875.)
- _____. 1878. *Idem.* *Ibid.* 53(Pt. 1): 76–91, pls. iia, iib.
- _____. 1881. In: Sitzungen der Russischen Entomologischen Gesellschaft. *Ibid.* 16: v.
- _____. 1883. Sur quelques espèces Russes appartenant au genre *Bombus*. *Bull. Soc. imp. Nat., Moscou* 58(Pt. 1): 168–226.
- _____. 1884. Revision des armures copulatrices des mèles du genre *Bombus*. *Ibid.* 59: 51–92, tabs. 1–4.
- _____. 1886. Faune hyménoptérologique Transcaspienne, [I]. *Hor. Soc. ent. ross.* 20: 3–56, pls. i–ii.
- _____. 1887a. *Idem.* [II]. *Ibid.* 21: 88–101, pls. 2–5.
- _____. 1887b. Hyménoptères de Korée, [I]. *Ibid.* 428–436. (Also separate, pp. 1–9.)
- _____. 1888a. Etudes hyménoptérologiques. I: Revision des armures copulatrices des mèles. II: Description de nouvelles espèces Russes. *Ibid.* 22: 315–337, tabs. 12–15.
- _____. 1888b. Faune hyménoptérologique Transcaspienne, [III]. *Ibid.* 22: 338–349. (Also separate, pp. 1–12.)
- _____. 1889. Notice sur le genre *Bombus*. *Bull. Soc. imp. Nat., Moscou*, N.S., 3(2): 202–209.
- _____. 1890a. Faune hyménoptérologique Transcaspienne, [IV]. *Hor. Soc. ent. ross.* 23: 306–312.
- _____. 1890b. Hyménoptères de Korée, [II]. *Ibid.* 24: 229–232.
- _____. 1890c. Hyménoptères récoltés sur le Mont Ararat. *Ibid.* 24: 502–510. (Also as separate, pp. 1–9.)
- _____. 1893a. Faune hyménoptérologique Transcaspienne, [V]. *Ibid.* 27: 38–81. Suppl., *ibid.* 27: 490–493. (Also as separate, pp. 1–44.)
- _____. 1893b. Descriptions d'hyménoptères nouveaux. *Rev. Ent., Fr.* 12: 241–245.
- Rapp, O. 1938. Die bienen Thüringens unter besonderer berücksichtigung der faunistisch-ökologischen geographie auf der literatur und beobachtungen von G. Jänner, G. Müller, H. Maertens, C. Beer, A. Petry und anderer entomologen. vi + 170 pp. Goecke, Krefeld.
- Rau, P. 1922. Ecological and behavior notes on Missouri insects. *Trans. Acad. Sci., St. Louis* 24: 1–71, 4 pls.

- _____. 1924. Notes on captive colonies and homing of *Bombus pennsylvanicus* DeGeer. *Ann. ent. Soc. Am.* **17**: 368–381, 1 pl.
- _____. 1937. A note on nest-founding in the bumblebee, *Bombus americanorum*. *Bull. Brooklyn ent. Soc.* **32**: 61.
- _____. 1941a. The nesting habits of *Bombus medius* Cresson, the Mexican bumblebee. *Psyche, Camb.* **48**: 166–168.
- _____. 1941b. A population study of a bumblebee colony, *Bombus americanorum* Fabr. *Ent. News* **52**: 70–73.
- _____. 1941c. A note on oviposition by the queen bumblebee, *Bombus americanorum* Fabr. *Can. Ent.* **73**: 55.
- Rayment, T. 1935. A cluster of bees. 752 pp. Endeavour Press, Sydney.
- Réaumur, R. A. F. de. 1742. Histoire des bourdons vélus, dont les nids sont de mousse. *Mem. serv. l'hist. des Insectes* **6**: 1–38, 4 pls. L'imprimerie Royale, Paris.
- Reid, J. A. 1938. Observations concerning aculeate Hymenoptera. *Entomologist's mon. Mag.* **74**: 275–277.
- Reinig, W. F. 1930a. Untersuchungen zur kenntnis der hummelfauna des Pamir-hochlandes. *Z. Morph. Okol. Tiere* **17** (hfn. 1–2): 68–123.
- _____. 1930b. Phaenoanalytische studien über rassenbildung. I: *Psithyrus rupestris* Fabr. *Zool. Jb., abt. syst.* **60**: 257–280 (1931).
- _____. 1931. Über die zusammensetzung der hochmontanen apiden-fauna der Pamir (Hym.). *Dt. ent. Z.*, H. 1, pp. 60–64.
- _____. 1932. Beiträge zur faunistik des Pamir-gebietes. *Wiss. ergebn. Alai-Pamir Exped.*, T. III, 1: 1–192. *Idem. ibid.* 2: 197–312.
- _____. 1933a. Entomologische ergebnisse der Deutsch-Russischen Alai-Pamir Expedition, 1928 (III). 7: Hymenoptera. VIII (Genus *Bombus* Fabr.). *Nachtrag. Dt. ent. Ztg.*, pp. 163–174 (1934).
- _____. 1933b. Ueber die verteilung der haartypen bei hummeln und ihre mutmassliche bedeutung für die färbung. *S. B. Ges. naturf. Freunde* (Berl.), pp. 102–110 (1934).
- _____. 1934. Über die bedeutung der individuellen variabilität für die entstehung geographischer rassen. *Ibid.* pp. 50–69 (1935).
- _____. 1935a. Über die bedeutung der individuellen variabilität für die Zentralasiatischen fauna (Hym. Bombidae). *Abh. Pamir Exped.* 1928, 7, pp. 175–247.
- _____. 1935b. On the variation of *Bombus lapidarius* and its cuckoo, *Psithyrus rupestris* Fabr., with notes on a mimetic similarity. *J. Genet.* **30**: 321–356. (p. 15.)
- _____. 1936a. Beiträge zur kenntnis der hummelfauna von Mandschukuo. *Mitt. Dt. ent. Ges.*, E.V., **7**(1): 2–10.
- _____. 1936b. *Bombus cingulatus* Wahlb. (Hym. Apid.). *S.B. Ges. naturf. Freunde* (Berl.), pp. 13–138 (1937).
- _____. 1937a. Die holarktis. Ein beitrag zur diluvialen und alluvialen geschichte der zirkumpolar faunen- und florengebiete. i–vi + 124 pp. Fischer, Jena.
- _____. 1937b. Melanismus, albinismus und rufinismus. Ein beitrag zum problem der entstehung und bedeutung tierischer färbungen. 122 pp., 27 illus. Thieme, Leipzig.
- _____. 1937c. [Bumblebees and the Hindukusch Expedition, 1936. In: Sitzungsberichte.] *Mitt. Dt. ent. Ges.*, E.V., **7**(No. 10): 100–101.
- _____. 1938. Elimination und selektion. Eine untersuchung über merksmalsprogressionen bei tieren und pflanzen auf genetisch-und historisch-chorologischer grundlage. i–viii + 146 pp., 29 figs. Fischer, Jena.
- _____. 1939a. Die genetisch-chorologischen grundlagen der gerichteten geographischen variabilität. *Z. indukt. abstamm- u. VererbLehre* (Berl.) **76**: 206–308. (Also, *Jver. Dt. Ges. Vererbwiss.* (Berl.) **13**: 29: 206–308, Wurzburg.)
- _____. 1939b. Die hummeln der reisen von E. Pfeiffer (1936) und E. Pfeiffer und Dr. W. Forster (1937) in den Elburs. *Mitt. münchen. ent. Ges.* **29**: 145–148.
- _____. 1939c. Die evolutionsmechanismen, erläutert an den hummeln. *Zool. Anz.*, suppl., **12**: 170–206, 23 figs. (Also in, *Verh. Dt. zool. Ges.* **41**, Leipzig.)
- _____. 1940. Beiträge zur kenntnis der hummelfauna von Afghanistan (Hym. Apid.). Ergebnisse der reise von H. und E. Kotzschi in den Hindukusch im jahr 1936. *Dt. ent. Z.* (hfn. 1–4), pp. 224–235.
- Rensch, B. 1933. Zoologische systematik und artbildungsproblem. *Verh. dtsch. zool. Ges.*, pp. 19–83. Köln.
- Retzius, A. J. 1783. Caroli De Geer, genera et species insectorum, etc. vi + 7–220 pp. Crusium, Lipsiae.

- Rhymashevskii, V. K. 1948. [Role of various races of honeybees and bumblebees (Bombidae) in the pollination of red clover.] *Selekts. Semenov.* 15(6): 33-37. (In Russian.)
- Richards, O. W. 1927a. The specific characters of the British humblebees (Hymenoptera). *Trans. R. ent. Soc. Lond.* 75(2): 233-268, pls. 22-25, 5 figs.
- _____. 1927b. Some notes on the humble-bees allied to *Bombus alpinus* L. *Tromsø Mus., Årsh.* 50 (Nr. 6): 3-32 (1931).
- _____. 1928a. On a collection of humble-bees (Hymenoptera, Bombidae) made in Ladakh by Col. R. Meinertzhangen. *Ann. Mag. nat. Hist.*, Ser. 10, 2: 333-336.
- _____. 1928b. *Bombus* and *Volucella* in the Himalayas. *Entomologist's mon. Mag.* 64 (or ser. 3, 14): 107-108. (With append. by P. Sack.)
- _____. 1928c. A revision of the European bees allied to *Psithyrus quadricolor*, Lepeletier (Hymenoptera, Bombidae). *Trans. R. ent. Soc. Lond.* 76(Pt. 2): 345-365, pl. 11.
- _____. 1928d. Notes on aculeate Hymenoptera captured in France, with the description of a new race of *Crossocerus elongatulus* V. de Lind. *Bull. Soc. ent. Fr.* pp. 218-224.
- _____. 1929a. On two new species of humble-bees in the collection of the British Museum, constituting a new group of the genus *Psithyrus*. *Ann. Mag. nat. Hist.*, Ser. 10, 3: 139-143.
- _____. 1929b. A revision of the humble-bees allied to *Bombus orientalis* Smith, with the description of a new subgenus. *Ibid.* 3: 378-386.
- _____. 1929c. Parallel colour-variations in humblebees from the Himalayas. *Proc. R. ent. Soc., Lond.* 3(3): 75-76.
- _____. 1929d. The types of the humble-bees described by Gribodo (Hymenoptera, Bombidae). *Entomologist's mon. Mag.* 65: 58-59.
- _____. 1930. The humble-bees captured on the expeditions to Mount Everest (Hymenoptera, Bombidae). *Ann. Mag. nat. Hist.*, Ser. 10, 5: 633-658.
- _____. 1931. A new species of Indian humble-bee in the collection of the British Museum (Hymenoptera, Bombidae). *Ibid.*, Ser. 10, 8: 529-533.
- _____. 1933. Variation in *Bombus jonellus* Kirby (Hymenoptera, Bombidae). *Ibid.* 12: 59-66.
- _____. 1934. Some new species and varieties of oriental humble-bees (Hym. Bombidae). *Stylops* 3(Pt. 4): 87-90.
- _____. 1935a. *Bombus muscorum* (Linnaeus) and *B. smithianus* White (Hym.). *Trans. Soc. Br. Ent.* 2(1): 73-85, pl. 5.
- _____. 1935b. Redescription of the type of *Psithyrus bellardii* Gribodo. *Annali Mus. civ. Stor. nat. Genova* 57: 5-6.
- _____. 1935c. Notes on the nomenclature of the aculeate Hymenoptera, with special reference to British genera and species. *Trans. R. ent. Soc. Lond.* 83: 143-176.
- _____. 1936. On a collection of humble-bees (*Bombus* and *Psithyrus*, Hymenoptera) from Cara Island, Argyllshire. *Entomologist's mon. Mag.* 72: 109-111.
- [] 1937a. A check list of the British Hymenoptera Aculeata. (pp. 94-116.) In: The generic names of British insects. Part 5. pp. 81-149. R. ent. Soc., London.
- _____. 1937b. The generic names of British Hymenoptera Aculeata (Annex to first report of the Hymenoptera subcommittee). (pp. 117-140.) In: *Ibid.*
- _____. 1938. The formation of species. Methods of studying the early stages of evolutionary divergence in animals. pp. 95-110. Evolution: Essays to Goodrich. De Beer (Editor), Oxford.
- _____. 1946. Observations on *Bombus agrorum* (Fabricius) (Hymen., Bombidae). *Proc. R. ent. Soc. Lond.* (A) 21(Pts. 7-9): 66-71.
- _____. 1949a. The significance of the number of wing-hooks in bees and wasps. *Ibid.* 24 (Pts. 7-9): 75-78.
- _____. 1949b. The evolution of cuckoo bees and wasps. *Proc. Linn. Soc. Lond.*, Sess. 161 (1948-49), Pt. 1, pp. 40-41.
- _____. 1950. Hymenoptera Aculeata in Pembrokeshire. *Entomologist's mon. Mag.* 86: 79-80.
- _____. 1951a. Endemic races of aculeate Hymenoptera. *J. Soc. Br. Ent.* 4: 1-4.
- _____. 1951b. The 3rd Danish expedition to central Asia. Zoological results 5. Bombidae (Insecta) from Afghanistan. *Vidensk. Meddr dansk. naturh. Foren.* (Kjøbenhavn) 113: 191-199.
- _____. 1953. The social insects. xiii + 219 pp. MacDonald, London.
- _____. 1956. Handbooks for the identification of British insects. Hymenoptera. Introduction and keys to families. Vol. 1, Pt. 1, 94 pp. R. ent. Soc., London.

- Ridgway, R. 1912. Color standards and nomenclature. iii + 43 pp., 53 pls. (col.). Washington, D.C. (Priv. publ.)
- Riley, C.V. 1870. (See Campbell, 1870.)
- 1890. Note. In: Short communications and exhibition of specimens. *Insect Life* 3: 87.
- Ritcher, P.O. 1933. The external morphology of larval Bremidae and keys to certain species (Hymenoptera). *Ann. ent. Soc. Am.* 26: 53–63, 2 pls. (33 figs.).
- Ritsema, C. 1880. [Gynandromorphic *Bombus mastrucatus* Gerst.] *Tijdschr. Ent.* 24: cxi (Verslag) (1881).
- 1884. Note XXX. [Synonymical remarks about certain Hymenoptera Aculeata.] *Notes Leyden Mus.* 6: 200.
- Robertson, C. 1890. Notes on *Bombus*. *Ent. News* 1: 39–41.
- 1897. North American bees—Descriptions and synonyms. *Trans. Acad. Sci St. Louis* 7(14): 315–356.
- 1903. Synopsis of Megachilidae and Bombinae. *Trans. Am. ent. Soc.* 29: 163–178.
- 1920. About *Bombus americanorum* F. *Bull. Brooklyn ent. Soc.* 15: 14–16.
- 1929. Flowers and insects; lists of visitors of 453 flowers. 221 pp. Science Press, Lancaster, Pa. (Priv. printing.)
- Rogenhofer, A., and K. W. v. Dalla Torre. 1881. Die hymenopteren in I. [J.] A. Scopoli's Entomologia Carniolica und auf den dazugehörigen tafeln. *Verh. zool.-bot. Ges. Wien* 31: 593–604 (1882).
- Rossius, P. 1790. Fauna Etrusca. Vol. 2, 348 pp., 10 pls. Masi, Liburni.
- Roussy, L. 1963. Sur l'origine et l'évolution probable des Apidae et de l'*Apis adamatica* de Heer. *Gaz. apic.* 64(670): 6–8.
- Rozen, J. G. 1951. A preliminary comparative study of the male genitalia of Andrenidae (Hymenoptera, Apoidea). *J. Kans. ent. Soc.* 24(4): 142–150.
- Rudow, [F.J] 1913. Die wohnungen und lebenstätigkeiten der honigsammelnden bienen, Anthophilidae. *Int. ent. Z.* 26: 165–166, 169–170, 173–174, 177, 181–182, 185, 189–190, 193–194, 201–202, 205–206, 209–210; 27: 2–3, 6–7, 10–11, 15–16, 21–22, 26–27, 34–35, 37–38, 46–47, 50–51, 57–58. (See also, 1918, *ibid.* 32: 4, re: *Calyptus bomborum* Rd.)
- Ruiz, P. F. 1942–43. Apidologia chilena. Segunda parte. *Revta chil. Hist. nat.* (Santiago) 46–47: 200–231 (1944).
- Ruthe, J. F. 1859. Verzeichniss der von Dr. Staudinger im Jahre 1856 auf Island gesammelten hymenopteren. *Ent. Z.* 20: 305–322, 362–379. (p. 379.)
- Ryckman, R. E. 1953. Notes on the ecology of *Bombus sonorus* in Orange County, California and new parasitic records. *Pan-Pacif. Ent.* 29(3): 144–146, 1 fig.
- Sack, P. 1925. (See under Richards, 1925b.)
- Safford W. E. 1917. Natural history of Paradise Key and the near-by Everglades of Florida. In: Smithson. Rep., pp. 377–434, pls. 1–65 (1919).
- Sagemehl, M. 1882. Verzeichniss der in Est-, Liv- und Curland bisher gefunden bienen. *Arch. Naturk. Liv-Ehst-und Kurlands* (or *Eesti loodust. Arch.*, Tartu), Ser. 2, 8: 451–466.
- Sakagami, S. F. 1950a. Einige vorsuche über den geschmacksinn der hummeln. *Kontyû* 18: 89–95.
- 1950b. Zur hummelfauna von Formosa. Systematische studien der hummeln I. *Ibid.* 18: 104–113. (In Japanese with German summary.)
- 1950c. Zwei schmarotzerhummeln von der Kurileninseln (Systematische studien der hummeln, II). *Insecta matsum.* 17(2): 80.
- 1951a. Einige beobachtungen über den blumenbesuch der hummeln. *Insect Ecol.* 3: 75.
- 1951b. *Bombus (Agrobombus) senilis* Smith und ihr nest. (Systemat. stud. III). *Mushi* 22: 9–15, 2 pls.
- 1953. Ueber *Bombus (Diversobombus) diversus* Smith (Systematische studien der hummeln IV). *J. (zool.) Fac. Sci. Hokkaido Univ.* (Sapporo) 11: 182–192, 4 figs.
- 1954. Ueber einige hummelarten von Hokkaido und Kurilen Inseln. Systematische studien der hummeln, V. *Kontyû* 21: 84–92.
- Sakagami, S. F., and K. Yoshikawa. 1961. Bees of Xylocopinae and Apinae collected by the Osaka city university biological expedition to southeast Asia 1957–58, with some biological notes. In: *Nat. & Life, S. E. Asia*, Vol. 1. viii + 454 pp, 1 map. Fauna & Flora Res. Soc., Kyoto, Japan. (pp. 409–444.)

- Sandhouse, G. A. 1943. The type species of the genera and subgenera of bees. *Proc. U.S. natn. Mus.* 92 (No. 3156): 519–619.
- Santokh, S., H. N. Baijal, V. K. Gupta, and K. Mathew. 1955. Entomological survey to the Himalayas, Part XIV. Notes on some insects collected by the second entomological expedition to the north-west Himalayas (1955), with descriptions of three new species of Odonata. *Agra Univ. J. Res. (sci), suppl.* 4, pp. 741–766, 4 figs.
- Saunders, E. 1884a. Little-known British Hymenoptera. *Entomologist's mon. Mag.* 20: 270–272.
- _____. 1884b. XII. Synopsis of British Hymenoptera. Anthophila; part II, Apidae. *Trans. R. ent. Soc. Lond.*, Pt. 2, pp. 159–250, pls. 5–12.
- _____. 1885. Little known British Hymenoptera. *Entomologist's mon. Mag.* 21: 226–228.
- _____. 1888. Index to Panzer's Fauna insectorum Germaniae. 48 pp. Gurney & Jackson, London.
- _____. 1890. Hymenoptera Aculeata of the British Islands. 391 pp., 52 pls. Reeve & Co., London.
- _____. 1903. On the relationship of aculeate inquilines and their hosts. *Entomologist's mon. Mag.* 14: 272–274.
- _____. 1904. Hymenoptera Aculeata from Majorca (1901) and Spain (1901–2). *Trans. R. ent. Soc. Lond.*, Pt. 3, pp. 591–660, + appendix (On mimicry of Aculeata by Asilidae and Volucella, pp. 661–665, by E. B. Poulton).
- _____. 1907. Wild bees, wasps and ants, and other stinging insects, etc. i–xiii + 144 pp., 4 pls. (col.). Routledge, London & New York.
- _____. 1909. Bombi and other aculeates collected in 1908 in the Berner Oberland by the Rev. A. E. Eaton, M. A. *Entomologist's mon. Mag.* 45(or 20: ser. 2): 83–84.
- Saunt, J. W. 1933. Some unusual insects from the nesting boxes in the nature reserve. *Proc. Coventry Distr. nat. Hist. scient. Soc.* 1(4): 72–73. (Coventry, England.)
- _____. 1934. Three seasons amongst the insects at Tile Hill Nature Reserve. *Ibid.* 1(5): 84–89.
- Say, T. 1837. Art. XVII: Descriptions of new species of North American Hymenoptera, and observations on some already described. *Boston J. nat. Hist.* 1(4): 361–416.
- Schenck, [A., (sometimes indicated)]. 1851. Beschreibung Nassauischer bienenarten. *Jber. Ver. Naturk. Herzogthum Nassau* (or, *Jb. nassauischer Ver. Naturk.*) 7: 1–106.
- _____. 1853. Nachtrag zu der beschreibung Nassauischer bienenarten. *Jber. Ver. Naturk. Nassau* (or, *ibid.*) 9(1): 88–306.
- _____. 1855a. Ueber einige schwierige genera und species aus der familie der bienen. *Ibid.* 10: 137–149.
- [_____] 1855b. Register zu der beschreibung Nassauischer bienen im heft vii, heft ix und x. *Ibid.* 10: 151–160.
- _____. 1860a. Verzeichniss der Nassauischen Hymenoptera Aculeata, hinzufügen der übrigen dem verfasser bekannt gewordenen Deutschen arten. *Stettin. ent. Ztg* 21: 132–157.
- _____. 1860b. Zu dem verzeichnisse der Nassauischen und übrigen Deutschen Hymenoptera Aculeata. (S. 132–157, d. jahrganges, [vol. 21, *Stettin. ent. Ztg.*]) *Ibid.* 21: 417–419.
- Schenck, A. 1859. Die Nassauischen bienen. Revision und ergänzung der früheren bearbeitungen. *Jber. Ver. Naturk. Herzogthum Nassau* (or, *Jber. nassauischer Ver. Naturk.*) 14(3): 3–414.
- _____. 1861a. Zusätze und berichtigungen zu der beschreibung der Nassauischen grabwespen (h. 12), goldwespen (h. 11), bienen (h. 14) und ameisen (hfn. 8 und 11). *Jb. Ver. Naturk., Nassau* (or, *Jb. nassauischer Ver. Naturk.*) 16(137): 139–206.
- _____. 1861b. Die bienen des Herzogthums Nassau. 419 pp. Niedner, Wiesbaden.
- _____. 1867. Beschreibung der Nassauischen bienen. Zweiter nachtrag. Zusätze zu Nassauischen arten und die beschreibung der übrigen Deutschen arten. *Jb. Ver. Naturk., Nassau* 21–22: (269) 271–382 (1868).
- _____. 1870. Bemerkungen zu einigen der im jahrg. 30 der [Stett.] entom. zeitung beschriebenen bienen. *Stettin. ent. Ztg* 31(1–3): 104–107.
- _____. 1871. Mehrere seltene, zum theil neue hymenopteren. *Ibid.* 32(7–9): 253–257.
- Schenck, [A.]. 1837a. Ueber einige streitige und zweifelhafte bienen-arten. *Berl. ent. Z.* 17: 243–259.
- [_____] 1873b. Erwiderung des Professor Schenck auf die anmerkung in der [Stettin] ent. zeit., 1872, ss. 294 und 295. *Stettin. ent. Ztg.* 34(4–6): 141–152.

- [] 1873c. Nachtrag zu dem artikel, s. 141 [In: *Stettin. ent. Ztg*, 1873]. *Ibid.* 34(4-6): 246-247.
- [] 1874. Aus der bienen-fauna Nassau's. *Berl. ent. Z.* 18: 161-173.
- [] 1875. *Idem.* *Dt. ent. Z.* 19(2): 321-332.
- Schilling, S. (1849) 1850. In Schlesien gesammelte hummelarten. Übers. *Arb. schles. gesell. lsch. f. vaterl. Cult.*, pp. 68-69.
- Schiødte, J. C. 1857. Udsigt over Grønlands land-, ferskvands- og strandbreds- arthropoder. (pp. 50-74.) In: Rink, Grønland, geographisk og statistisk beskrevet, Bd. 2. Kjøbenhavn. (For German translation, see Etzel, A., *Berl. ent. Z.* 3: 134-157, 1859.)
- Schirmer, C. 1911. Beiträge zur kenntnis der hymenopterenfauna der Provinz Brandenburg. *Berl. ent. Z.* 56: 153-171.
- 1912. Leben und treiben der hummeln. In: Sitzungsberichte der Berliner Entomologischen Verein fur die jahr 1911. *Berl. ent. Z.* 57: 45-46.
- 1915. Beiträge zur kenntnis der hymenopterenfauna der Provinz Brandenburg. Nachtrag. *Dt. ent. Z.*, pp. 454-457.
- Schmidt, H. 1918. Biologisches über die erdhummel (*Bombus terrestris* L.). a: Vom neste und beobachtungen beim ausheben. b: Nektar-entnahme aus den bluten von *Melampyrum sylvaticum*. *Z. wiss. InsektsBiol.* 14: 14-16, 2 figs.
- Schmiedeknecht, O. (or H. L. O.). 1878. Monographie der in Thüringen vorkommenden arten der hymenopteren-gattung *Bombus*. *Jena. Z. Naturw.* 12: 303-430, 2 pls.
- (1881. See under [Katter, F.])
- [O.] 1882a. Zur speciesfrage von *Bombus*. ergänzung. *Ent. Nachr.* 8(2): 21-22.
- 1882b-1886. Apidae Europaea. Two volumes (12 pts.), 1071 pp., 17 pls. Gumpert et Berolini, Berlin. (Vol. 1, 1882; vol. 2, 1884-1886. See also, Schroeder, Handbuch der Entomologie, vol. 3, p. 825.)
- 1907. Die hymenopteren Mitteleuropas. 804 pp. Fischer, Jena.
- 1930. Die hymenopteren Nord- und Mitteleuropas. 1062 pp., 127 figs. 2nd ed. Fischer, Jena.
- Schmitt, J. 1904. Monographie de l'isle d'Anticosti. vi + 367 pp., 46 figs., 1 mp.
- Schneck, J. 1886. How the humble-bee obtains nectar from *Physostegia virginiana*. *Bot. Gaz.* 2: 276.
- Schneider, A. 1883. Ueber die entwicklung von *Sphaerularia bombyi*. *Zool. Beitr.* 1(1): 1-10, 5 figs., 1 taf.
- 1885. Fortgesetzte untersuchungen ueber *Sphaerularia bombyi*. *Ibid.* 1(3): 247-251, 1 fig.
- Schneider, J. Sparre. (See under Sparre-Schneider.)
- Scholz, E. J. R. 1908. *Bombus hypnorum* und *Bombus muscorum* als relikte der waldfaune in Königshütte O/S. Jahresb. ver. Schles. Insektenk., n.f., hft. 33, p. 26.
- 1913. Bienen und wespen; ihre lebensgewohnheiten und bauten. 208 pp., 80 illus. Quelle und Mayer, Leipzig.
- 1924. Die Rassen des *Bombus soroensis* Fbr. und einige andere farbungsscheinungen bei hummeln. *Z. wiss. InsektsBiol.* 19: 3-8.
- Schonherr, C. J. 1809. Entomologiska anmärkningar och beskrifningar på några svenska nya insecter. *K. svenska Vetensk-Akad. Handl.* 30: 48-58, 1 pl.
- Schrantz, F. P. 1781. Enumeratio insectorum Austriae indigenorum. 548 pp., tabs. 1-4. Vindel.
- Schremmer, F. 1949. Bemerkungen zur ocellenfunktion bei hummeln. *Oester. Zool. Z.* (Vienna) 2: 242-274.
- Schrottky, C. 1903. Enumération des hyménoptères connu jusqu'ici de la République Argentine, de l'Uruguay et du Paraguay. *An. Soc. cient. argent.* 55: 80-91, 118-124, 176-186.
- 1908. Blumen und insekten in Paraguay. *Z. wiss. InsektsBiol.* 4(hfn. 1-3): 1-3.
- 1909. Himenópteros de Catamarca. *An. Soc. cient. argent.* 68: 233-272.
- 1913. La distribucion geographica de los hymenopteros Argentinos. *Ibid.* 75: 115-144, 180-286.
- Schluthess, A. 1924. Contribution à la connaissance de la faune des hyménoptères de l'Afrique du nord. *Bull. Soc. Hist. nat. Afr. N. Algiers* 15(6): 293-320.
- Schultze, A. 1947. [The bumblebee (*Bombus terrestris*), an unknown friend of the farmer.] *Frutas Madeira* 7: 41, 48. (In Portuguese.)
- Schulz, W. A. 1901a. Ueber das nest von *Bombus cayennensis* (L.). *Verh. zool.-bot. Ges. Wien* 51: 361-362.

- 1901b. Nachtrag zu meiner berichte über des nest von *Bombus cayennensis* (L.).
Ibid. 51: 762.
1906. Strandgut (pp. 77–269). In: Schulz, Spolia Hymenopterologica, iii + 356 pp., 1 Taf. Paderborn (Junfermann).
1912. Aelteste und alte hymenopteren Skandinavischer autoren. *Berl. ent. Z.* 57: 52–102.
- Schwan, B. 1953. Iakttagenser rörande rödklöver-pollinerande insekter åren 1942–1946. *Medd. svensk Fröodlareförb.* 2: 34–61.
- Schwarz, H. F. 1943. [Some Venezuelan bees.] Algunas abejas Venezolanas. *Boln Ent. venez.* 2(1): 27–34.
1948. Stingless bees (Meliponidae) of the Western Hemisphere. *Bull. Am. Mus. nat. Hist.* 90: xvii + 1–546.
- Scopoli, A. 1763. Entomologia Carniolica, sistens insecta Carnioliae indigena, etc. 420 pp. + preface, index, etc. Vindobonae.
- Scott, H. 1920. Notes on the biology of some inquilines and parasites in a nest of *Bombus derhamellus* Kirby; with a description of the larva and pupa of *Epuraea depressa* Illig. (=aestiva Auctt.: Coleoptera, Nitidulidae). *Trans. R. ent. Soc. Lond.*, pp. 97–127, 8 figs.
1937. An observation on *Bombus terrestris* Linn. *Proc. R. ent. Soc. Lond.*, Ser. A, 12 (Pts. 4–6): 51.
- Scudder, S. H. 1891. Index to the known fossil insects of the World, including myriapods and arachnids. Bull. 71, 744 pp. U.S. geol. Surv., Washington.
- Scullen, H. A. 1927. Bees belonging to the family Bremidae taken in western Oregon, with notes. *Pan-Pacif. Ent.* 4(2): 69–76.
1928. *Idem.* *Ibid.* 4(3): 121–128.
1930. Notes on the distribution and altitude range of Oregon Bremidae (Hymenoptera). *J. econ. Ent.* 23: 786–789.
- Sedgwick, A. 1898. A student's text-book of zoology. Vol. 1, xii + 619 pp. Sonnenschein, London; Macmillan, New York.
- Seidl, W. B. 1837. Die in Böhmen vorkommenden hummelarten. *Beitr. gesam. Natur.-Heilwiss.* 2: 65–73.
- Selons, E. 1910. Humble-bees and foxgloves. *Zoologist* 14: 327–336.
- Semenov-Tian Shansky, A. 1906. H. Friese, Neue oder wenig bekannte hummeln des Russischen Reiches (Rezension). *Rev. russ. Ent.* 6: 39–40.
1910. [The taxonomic limits of a species and of its subdivisions.] Die taxonomischen grenzen der art und ihrer unterabteilungen. *Zap. Akad. nauk, SSSR*, Ser. 8, No. 1, 29 pp. St. Petersburg. (In Russian.)
- Severin, H. C. 1925. The bumble-bees of South Dakota. *16th Rep. St. Ent. Sth. Dak.*, pp. 17–20.
- Shaw, G. 1806. General zoology, or systematic natural history. Vol. 6, pt. 2, Insecta. x + pp. 241–509, 60 pls. Kearsley, London.
- Short, J. R. T. 1959. On the skeleto-muscular mechanisms of the anterior abdominal segments of certain Hymenoptera. *Trans. R. ent. Soc. Lond.* 111 (Pt. 8): 175–203, 11 figs.
- Shuckard, W. E. 1866. British bees: An introduction to the study of the natural history and economy of the bees indigenous to the British Isles. 371 pp., 16 pls. Reeve, London.
- Sichel, [J.J.]. 1858. Note sur un insecte hyménoptère hermaphrodite (*Bombus lapidarius*). *Ann. ent. Soc. Fr.*, Ser. 3, Vol. 6. *Bull.* 17 (4^e trimestre): ccxlvii–ccxlix.
- J. 1862. Observations hyménoptérologiques. *Ibid.*, Ser. 4, 2: 119–122.
1865. Essai monographique sur le *Bombus montanus* et ses variétés. *Annls Soc. linn. Lyon* 11: 421–443.
1867. Hymenoptera fossoria et mellifera. (pp. 139–156.) In: Suppl. to Sausse, Hymenoptera, reise der Österreichischen Fregatte Novara, etc. [Novara Exped.], Zool. Theil, Bd. 2, 156 pp., 4 tafn.
- Sickmann, F. 1894. Beiträge zur kenntnis der hymenopteren-fauna des nordlichen China. *Zool. Jb., abt. syst.* 8: 195–236.
- Silvonen, L. 1942. Zur phänologie des fruhjahrauftreten der hummel (*Bombus*, Hym., Apidae). Eine vergleichende betrachtung. *Ann. ent. fenn.* (Suom. Hyönteistiet. Aikakausk.) 8(1): 83–102.
- Simpson, G. G. 1953. Life of the past. An introduction to palaeontology. 198 pp. Yale Univ. Press, New Haven, Conn. (Also, Oxford Univ. Press, Oxford, England.)

- Sistek, V. 1948. [Some observations about the reasons of the decrease of some kinds of bumblebees.] *Cesk. Akad. zeměd. Vest.* 22: 432–434. (In Czechoslovakian with Russian and English summaries.)
- Sitowski, L. 1947. Makatka (*Anthidium* F.) jako tepeciel pszczot i trzmieli zbierajacych mido. [*Anthidium* (*manicatum* (L.) F.) as a competitor of [honey]bees and bumblebees gathering honey.] *Rocz. nauk Rolnicz. Lęsynch* (Agric. & Forest. Ann.) 49: 434–436. (In Polish with English summary.)
- Sjöstdet, Y., and D. Hummel. 1934. Schwedisch-Chinesische wissenschaftliche expedition nach den nordwestlichen provinzen Chinas, unter der leitung von Dr. Sven Hedin und Prof. Sü Ping-chang. Insekten gesammelt vom Schwedischen arzt der expedition, Dr. David Hummel, 1927–1930. Einleitung. *Ark. Zool.* 25, A.(3): 1–34.
- Skorikov, A. S. (Also Skorikow, & sometimes only A.). 1907. [Formes nouvelles des bourdons (Hymenoptera, Bombidae). (Diagnoses préliminaires).] I. *Rev. russ. Ent.* 7 (2–3): 111–113 (1908). (In Russian, except Latin descriptions.)
- _____. 1908. [*Idem.*] II. *Ibid.* 8(3–4): 260–262 (1909). (In Russian except Latin descriptions.)
- _____. 1909a. [*Bombus mendax* Gerst. und seine varietäten, (Hymenoptera, Bombidae).] *Ibid.* 9(3): 328–330 (1910). (In Russian.)
- _____. 1909b. [Note sur la faune et la répartition géographique des bourdons au N.-Caucase.] *Trav. Soc. nat., l'Univ. Imp., Kharkow* 43: 77–84 (1910). (In Russian.)
- _____. 1909c. [Nouvelles formes des bourdons (Hymenoptera, Bombidae). (Diagnoses préliminaires).] III. *Rev. russ. Ent.* 9(4): 409–413 (1910). (In Russian except Latin descriptions.)
- _____. 1910. Revision der in der sammlung des weil. Prof. E. A. Eversmann befindlichen hummeln. *Hor. Soc. ent. ross.* 39: 570–584.
- _____. 1911. [*Bombus pratorum* (L.) et ses formes (Hymenoptera, Bombidae).] *Rev. russ. Ent.* 11(3): 380–382. (In Russian.)
- _____. 1912a. [*Bombus lapponicus* (F.) et ses formes (Hymenoptera, Bombidae).] *Ibid.* 12(1): 95–102. (In Russian.)
- _____. 1912b. Neue hummelformen (Hymenoptera, Bombidae), IV. *Ibid.* 12(3): 606–610. (In German.)
- _____. 1913. *Idem.* V. *Ibid.* 13(1): 171–175. (In German.)
- _____. 1914a. Les formes nouvelles des bourdons (Hymenoptera, Bombidae), VI. *Ibid.* 14(1): 119–129. (In Russian, subtitled in French.)
- _____. 1914b. *Hortobombus consobrinus* (Dahlb.) et ses variations (Hymenoptera, Bombidae). *Ibid.* 14(2–3): 283–286. (In Russian, subtitled in French.)
- _____. 1914c. *Subterraneobombus fedtschenkoi* (F. Mor.), un bourdon de Turkestan peu connu (Hymenoptera, Bombidae). *Ibid.* 14(2–3): 287–292. (In Russian, subtitled in French.)
- _____. 1914d. *Pratobombus leucopygus* (F. Mor.) et ses variations (Hymenoptera, Bombidae). *Ibid.* 14(2–3): 293–294. (In Russian, subtitled in French.)
- _____. 1914e. Contribution à la faune des bourdons de la partie méridionale de la province maritime. *Ibid.* 14(4): 398–407. (In Russian, subtitled in French.)
- _____. 1922a. [Palaearctic bumblebees. Part 1, General biology, including zoogeography.] *Bul. Sta. reg. protect. Plantes, Petrograd* 4: 1–160, 11 figs., 17 mps. (In Russian.)
- _____. 1922b. Faunae Petropolitanae catalogus. *Petrograd. agron. Inst. sci. Res., ent. Sta.* 2(11): 1–51. (In Russian.)
- _____. 1925. Neue hummel-formen (Hymenoptera, Bombidae), VII. *Rev. russ. Ent.* 19: 115–118. (In Russian, subtitled in German.)
- _____. 1927. [Clover cultivation and the pollinators.] *Izv. Gos. Inst., opytn. Agron.* 6: 460–469. (In Russian.)
- _____. 1931. Die hummelfauna Turkestans und ihre beziehungen zur Zentralasiatischen fauna (Hymenoptera, Bombidae). *Abh. Pamir-Exped.*, 1928, No. VIII, pp. 175–247, 42 figs.
- _____. 1933a. Zur fauna und zoogeographie der hummeln des Himalaya. *C. R. Acad. Sci., URSS*, No. 5, (n.s.), pp. 243–248. (In Russian; pp. 243–246 with descriptions of new species, varieties, and with summary in German, pp. 246–248.)
- _____. 1933b. Zur hummelfauna Japans und seiner nachbarländer. *Mushi* 6: 53–65, 1 pl., 1 cht.
- _____, A. [S.] 1937a. Vorläufige mitteilung über die hummelfauna Burmas. *Ark. Zool.* 30, B (1): 1–3.

- _____, A. S. 1937b. Die Grønländischen hummeln in aspekte der zirkumpolarfauna. *Ent. Meddr* 20: 37–64.
- Skou, J. P., S. N. Holm, and H. Hase. 1963. Preliminary investigations on diseases in bumble-bees (*Bombus* Latr.). *R. Vet. agric. Coll. Yb.*, Copenhagen, pp. 27–41, 15 figs.
- Skovgaard, O. S. 1936. Rødkløverens bestøvning, humelbier og humleboer. *K. danske Vidensk. Selsk. (skr. Nat. Math.)*, Afd. 6(9), 140 pp.
- _____. 1952. Humlebiers og honningbiers arbejdshastighed ved bestøvningen frødkløver. *Tidsskr. Landbrugets PlAvl* 55: 449–475.
- Sladen, F. W. L. 1896. Humble bees. *Br. Bee J.* 24: 37, 47–48.
- _____. 1898. *Bombus smithianus* near Rye. *Entomologist's mon. Mag.* 34: 254–255.
- _____. 1899. Bombi in captivity, and habits of *Psithyrus*. *Ibid.* 35: 230–234.
- _____. 1900. Humblebees in winter. *Br. Bee J.* 28: 72–74.
- _____. 1912a. *Bombus terrestris* L. and *ruderatus* F. (= *subterraneus* Smith) in New Zealand. *Entomologist's mon. Mag.* 48: 66.
- _____. 1912b. The humble-bee, its life-history and how to domesticate it, with descriptions of all the British species of *Bombus* and *Psithyrus*. xiii + 283 pp., 34 figs., 6 pls. (5 col.). Macmillan, London. (Also, privately published booklet, "The humble-bee, its life history and how to domesticate it", 1892.)
- _____. 1912c. Bumble-bees and their ways. 43rd *Rep. ent. Soc. Ont.* (Canada), pp. 50–56 (1913).
- _____. 1914a. Scarcity of bumble-bee nests in the vicinity of Ottawa. *Ottawa Nat.* 27: 69 (1913–1914).
- _____. 1914b. In: Meeting, Ottawa field-naturalist's club. *Ibid.* 27: 137 (1913–1914).
- _____. 1914c. In: Meeting of the entomological branch. *Ibid.* 27(12): 171–172.
- _____. 1915a. Inquiline bumble-bees in British Columbia. *Can. Ent.* 47: 84.
- _____. 1915b. In: Root, The ABC and XYZ of bee culture. Root. Co., Medina, Ohio. (pp. 171–177.)
- _____. 1919a. Notes on the Canadian representatives of British species of bees. *Can. Ent.* 51: 124–130.
- _____. 1919b. The wasps and bees collected by the Canadian Arctic Expedition, 1913–18. In: Report of the Canadian Arctic Expedition, 1913–18. Insects. Part G. Hymenoptera and plant galls. III. pp. 25G–35G.
- Smit, F. G. A. M. 1960. A checklist of insect-stamps. *Ent. Ber., Amst.* 20: 90–99.
- Smith, F. 1852a. VIII. Descriptions of some new and apparently undescribed species of hymenopterous insects from North China, collected by Robert Fortune, Esq. *Trans. R. ent. Soc. Lond.*, n.s., 2: 33–45.
- _____. 1852b. IX. Descriptions of some hymenopterous insects from northern India. *Ibid.*, n.s., 2: 45–48, 1 pl.
- _____. 1854. Catalogue of the hymenopterous insects in the collection of the British Museum. Part II, Apidae. pp. 199–465, 6 pls. British Museum (N.H.), London.
- _____. 1855a. *Idem*. Part I, Apidae-bees. 248 pp., 11 pls. London. (Extract in: *Ent. Ann.*, pp. 139–145, 1856.)
- _____. 1855b. New British bees discovered since the publication of Kirby's monographia. *Ent. Ann.* (2nd ed.), pp. 89–96.
- _____. 1857. Notes and observations on the aculeate Hymenoptera. *Ibid.*, pp. 27–38.
- _____. 1858. Notes on aculeate Hymenoptera, with some observations on their economy. *Ibid.*, 34–46.
- _____. 1859. Notes on the capture of rare species in 1858, with some observations on their economy, etc. *Ibid.*, 109–117.
- _____. 1861. Descriptions of new genera and species of exotic Hymenoptera. *J. Ent.* 1 (3): 146–155, 1 pl.
- _____. 1863. Notes on Hymenoptera. *Ent. Ann.*, pp. 51–64.
- _____. 1865. Notes on Hymenoptera. *Ibid.*, pp. 81–96.
- _____. 1866. (See Lord, 1866.)
- _____. 1866–1867. A revision of the British species of the genus *Bombus*. *Entomologist* 3: 240–243, 255–260, 267–269, 281–288, 293–[296]298.
- _____. 1868. Notes on Hymenoptera. *Ent. Ann.*, pp. 81–96.
- _____. 1869. Descriptions of Hymenoptera from Japan. *Entomologist* 4(62): 205–208.
- _____. 1870a. Notes on Hymenoptera. *Ent. Ann.*, pp. 19–30.

- 1870b. Appendix. [Descriptions of some new species of (Pompilidae, Sphegidae, Larridae, Crabronidae, Eumenidae) Apidae and Vespidae collected by Mr. Horne.] *Trans. zool. Soc. Lond.* 7(Pt. 3): 186–196, 4 pls. To: Horne, Notes on the habits of some hymenopterous insects from the north-west provinces of India, *ibid.* 7(Pt. 3): 161–185, 1870.
- 1871. A catalogue of British Hymenoptera; Aculeata. viii + 44 pp. Entomological Society of London.
- 1872. Notes on the aculeate Hymenoptera of South Devon, etc. *Ent. Ann.*, pp. 93–106.
- 1873. Descriptions of aculeate Hymenoptera of Japan, collected by Mr. George Lewis at Nagasaki and Hiogo. *Trans. R. ent. Soc. Lond.*, pp. 181–206.
- 1876a. Catalogue of British Hymenoptera in the collection of the British Museum. 2nd ed. Part 1: Andrenidae & Apidae. 236 pp., 11 pls. (same as in 1855 ed.). N.B. Second title page: "Catalogue of the British bees in the collection of the British Museum."
- 1876b. Exportation of humble-bees to New Zealand. *Entomologist* 9: 15–16.
- 1878a. Scientific results of the second Yarkand Mission, based upon the collections and notes of the late Ferdinand Stoliczka: Hymenoptera. Off. Supt. gov. Print., Calcutta. pp. 1–22, 1 pl.
- 1878b. List of Hymenoptera obtained by Mr. Ossian Limborg east of Moulmain, Tenasserim provinces, during the months of December 1876, January, March and April, 1877, with descriptions of new species. *J. asiatic Soc., Bengal* 47(3): 167–169.
- 1879. Descriptions of new species of Hymenoptera in the collection of the British Museum. xxi + 240 pp. British Museum (N.H.), London.
- 1891. Catalogue of British Hymenoptera in the British Museum. 2nd ed. Part 1, Andrenidae and Apidae. (Second title: "Catalogue of the British bees in the collection of the British Museum.") xi + 236 pp., 11 pls. (the same as in the 1855 and 1876 editions). *New issue*. British Museum (N.H.), London. [A third subtitle of this work appears on p. 1: "Catalogue of the bees of Great Britain."]
- Smith, J. B. 1890. Catalogue of insects found in New Jersey. 486 pp., 1st ed. Geol. Surv., N. J.
- Smith, R. C. 1943. Common insects of Kansas. *Rep. Kans. St. Bd Agric.*, vol. 62, no. 255, 440 pp.
- Smith, W. W. 1896. Enemies of humble-bees in New Zealand. *Entomologist* 29: 210–211 (ed. note, p. 212).
- Snider, R. J., and R. W. Husband. 1966. Collembola found in bumblebee nests. *Trans. Am. microsc. Soc.* 85(3): 473–475.
- Sniezek, J. 1894. O Krajowych gatunkach trzmieli. *Ber. fysiogr. Komm. Krak. Ak.* (also, *Sprawozd. Kom., Krajo*) 29: 1–22. (Summary in: *Zool. Zentbl.* 2: 176.)
- Snoflák, H. 1949. Bumble-bees (*Bombus*) and clover. *Vesmir* 50: 53–55 (1949–1950).
- Snow, F. H. 1906. List of the Hymenoptera collected in Arizona by the University of Kansas entomological expeditions of 1902, 1903, 1904, 1905 [and] 1906. *Trans. Kans. Acad. Sci.* 20(Pt. 2): 1–14.
- Soika, A. G. 1933. Quarto contributo alla conoscenza degli imenotteri del Lido di Venezia. *Bull. Soc. ent. ital.* 65(6): 140–145.
- Soot-Ryen, T. 1925. Entomologische notizen I. Hymenoptera Aculeata und Tubulifera aus dem nordlichen Norwegen. *Ibid.* 47(3): 1–15, 1 mp.
- Soukup, J. 1943. Algunos himenópteros Peruanos. *Bol. Mus. Nat., "Javier Prado"* 7(26–27): 253–274.
- Sparre-Schneider, J. 1894. Humlerne og deres forhold til flora' en i det arktiske Norge. *Tromsø Mus. Årsh.* 17: 133–143 (1895).
- 1896. Insektslivet i Jotunheimen. *Ibid.* 19: 113–146 (1898).
- 1904. Sydherø. Et lidet bidrag til kundskaben om den arktiske skjærgårds malakologiske og entomologiske fauna. *Ibid.* 27: 170–205.
- 1906. Hymenoptera Aculeata im arktischen Norwegen. *Ibid.* 29: 81–160 (1909), 1 pl.
- 1917. Die hummeln der Kristiania-gegend. *Ibid.* 40: 1–45 (1918).
- Spinola, M. 1805. Fauna Liguriae fragmenta. Decas 1, 21 pp., 1 pl. Genuae.
- 1806. Insectorum Liguriae species novae aut rariores, etc. Tome 1, fasc. 1. xvii + 159 pp., 2 pls. Gravier, Genuae. (Also, a second printing, 1808.)

- _____. 1851. Himénopteros. (pp. 153–569, 571–572.) *In: Gay, Historia fisica y politica de Chile. Zoologia.* Volume 6, 572 pp. Maulde & Renou, Paris. (Publ. by the author.)
- _____. 1853. Compte rendu des hyménoptères inédits provenants du voyage entomologique de M. Ghiliani dans le Para en 1846. *Mem. Acad. Sci., Torino*, Ser. 2, 13: 19–94.
- Stammer, H. J. 1951. Eine neue tracheenmilbe, *Bombacarus buchneri* n. g., n. sp. (Acar. Podapolipodidae). *Zool. Anz.* 146: 135–150.
- Stapel, C. 1933. Undersøgelser over humlebier (*Bombus* Latr.), deres udbredelse, traekplanter og betydning for bestøvningen af rødkløver (*Trifolium pratense* L.). *Tidsskr. Landbrugets Plavl* 39: 193–294.
- _____. 1943. Über die befruchtung der luzerne durch insekten in Dänemark. *Ent. Medd. ent. Foren.* 23: 224–239.
- Staudinger, O. 1857. Reise nach Island zu entomologischen zwecken unternommen. *Ent. Ztg.* 18: 209–289. (p. 220.)
- Stein, G. 1856a. Weitere beiträge zur biologie von *Sphaerularia bombi* Leon Dufour 1837. *Z. Parasitenk.* 17: 383–393.
- _____. 1956b. Beiträge zur biologie der hummeln (*B. terrestris* L., *B. lapidarius* L., v. a.). *Zool. Jber.* 84: 439–462.
- Steinberg, D. M. 1959. [Morphological adaptation of female ovaries in insects.] *Ent. Rev., Akad. nauk, SSSR* 38(3): 529–539. (In Russian with English summary.)
- _____. 1961. [Review of, "Bumblebees" by J. B. Free & C. G. Butler.] *Ibid.* 40(2): 482–483. (In Russian.)
- Stelfox, A. W. 1924. Notes on Irish aculeates with special reference to the Dublin district. *Ir. Nat. J.* 33: 13–25.
- _____. 1927. A list of the Hymenoptera Aculeata (*sensu lato*) of Ireland. *Proc. R. Ir. Acad.* 37 (Sect. B, no. 22): 201–355.
- Stellwaag, F. 1915. Aus dem leben der hummeln. *Naturw. Wochenschr.* 14: 465–471.
- _____. 1916. Die blumenstetigkeit der hummeln. *Z. wiss. InsektBiol.* 12: 26–32, 69–75.
- Step, E. 1932. Bees, wasps, ants and allied insects of the British Isles. xxv + 238 pp., 715 illustrs. Warne, London and New York.
- Stephen, J. F. 1829. The nomenclature of British insects, etc. ii + 68 pp. Baldwin, London.
- _____. 1846. Illustrations of British entomology. Suppl., vi + 32 pp., 15 pls. and 1 p. index. Bohn, London.
- Stephen, W. P. 1955. Alfalfa pollination in Manitoba. *J. econ. Ent.* 48: 543–548.
- _____. 1957. Bumble bees of western America (Hymenoptera: Apoidea). *Oreg. agric. Exp. Stn Tech. Bull.* 40: 2–163.
- Stevens, O. A. 1948a. Native bees. *N. D. agric. Exp. Stn Bi-mon. Bull.* 10(6): 187–194, 4 figs.
- _____. 1948b. *Idem. Ibid.* 11(2): 49–54, 2 figs.
- Stierlin, R. 1906. Über das leben der hummeln. *Mitt. naturw. Ges. Winterthur* 6: 130–144.
- Stiles, C. W. 1895. *Spherularia bombi* in America. *Ent. News* 6: 248–250, pl. 11.
- Stöckhert, F. (or, F. K.). 1921. Ueber einen fall von frontaler gynandromorphie bei *Bombus lapidarius* L. (Hym.). *Z. wiss. InsektBiol.* 16: 132–134.
- _____. 1924. Über gynandromorphie bei bienen und die beziehungen zwischen den primären und sekundären geschlechtcharakteren der insekten. *Arch. Naturgesch.* 90 (abt. A, h. 2): 109–131.
- _____. 1932. Die bienen Frankens (Hym. Apid.). Eine ökologisch-tiergeographische untersuchung. *Dt. ent. Z.*, 1932 Beiheft. viii + 294 pp. Berlin (1933).
- _____. 1954. Fauna apideorum Germaniae (Nachträge und ergänzungen zu F. K. Stoeckhert, Die bienen Frankens, D.E.Z., 1932 Beiheft, Berlin, 1933). *Abh. bayer. Akad. Wiss. math.-naturw. Klasse*, n.f., H. 65, pp. 1–87, 2 figs. München.
- Strand, E. 1905. Coleoptera, Hymenoptera, Lepidoptera und Araneae. (No. 3, pp. 1–30). *In: Report of the second Norwegian arctic expedition in the "Fram", 1898–1902. Volume 1, nos. 3–6 + 648 pp., 10 pls. (1904–1907). Norske Vidensk.-akad., Oslo, (& Vidensk.-selsk., Kristiania).* Brøgger, Oslo.
- _____. 1909. Beitrag zur bienenfauna von Paraguay. (Hym.). *Dt. ent. Z.*, pp. 227–237.

- _____. 1910. Beiträge zur kenntnis der hymenopterenfauna von Paraguay auf grund der sammlungen und beobachtungen von Prof. J. D. Anisitis. VII, Apidae. *Zool. Jb., abt. syst.* 29: 455–562.
- _____. 1913. H. Sauter's Formosa-ausbeute. Apidae I. (Hym.). *Dts. ent. Mus.*, Suppl. Ent. No. 2, pp. 23–67. Berlin-Dahlem.
- _____. 1917. Ueber einige Apidae des Deutschen entomologischen museums. *Arch. Naturgesch.* 58(11): 57–71.
- _____. 1918. Notizen zur hymenopterenfauna Deutschlands, I–III. *Int. ent. Z.* (Guben) 32(1): 2–4; *ibid.* 32(2): 7.
- Strelnikov, I. D. 1931. Influence des radiations solaires sur la température du corps des insectes. *C. r. Acad. Sci., Paris* 192: 1317–1319. (Also, *Dokl. Akad. nauk SSSR.*)
- Šustera, O. 1944. Úvod k prodromu našich vcel. Nynější a bývalé přírodní poměry Čech a Moravy. [Introduction to a preliminary account of our bees. Present and past natural affinity of Bohemia and Moravia.] *Sb. ent. Odd. zem. Mus. Praze* (or, *Acta ent. Mus. nat. Pragae*) 21–22(298): [441] 443–477, 1943–1944.) (In Czechoslovakian.)
- _____. 1958. Übersicht des systems der Paläarktischen und Mittel-europäischen gattung der superfamilie Apoidea (Hymenoptera). *Ibid.* 32: 443–463.
- Swammerdam, J. 1693. Historia insectorum generalis, in qua verissimae mutationem, etc. (Ex Belgica latinam fecit, H. C. Henninius.) 2nd ed. 16 unnumb. + 212 pp., 17 pp. indexes and 13 pls. Vries, Utrecht.
- _____. 1737. Bybel der natuur. Etc. Volume (or part) I. pp. 484–487, 536–537.
- Severin, Leydae. (Also, earlier (1652) and later (1758) editions of this work have been examined.)
- Swederus, N. A. 1787. Ett nytt genus, och femtio nya species af insekter. *Vetensk. Akad. Handl.* (Stockholm) 8: 181–201, 276–290.
- Swenk, M. H. 1907. The bees of Nebraska, III. *Ent. News* 18: 293–300.
- _____. 1938. Two new American bumblebees. *Pan-Pacif. Ent.* 14: 29–30.
- Taniguchi, S. 1955. (See also under Miyamoto.) Biological studies on the Japanese bees, II. Study on the nesting behavior of *Bombus ardens* Smith. *Scient. Rep. Hyogo Univ. Agric.* 2: 89–96.
- Thomson, C. G. 1870. Oefversigt af Sveriges humlor. *Opusc. ent.* 2(14): 251–261.
- _____. 1872. Hymenoptera Scandinaviae. (*Apis Lin.*). Vol. 2. 286 pp., 1 pl. Berling, Lundae.
- Thomson, G. M. 1891. The humble-bee in New Zealand. *N.Z. J. Sci.* 1: 16–26. (See also: *Entomologist's mon. Mag.* 27 (or Ser. 2, vol. 2): 131–132, 1891, and *Insect Life* 4: 157, 1891.)
- _____. 1922. The naturalisation of animals and plants in New Zealand. i–x + 607 pp. Univ. Press, Cambridge, England.
- Thorp, R. W. 1962. Notes on the distributions of some bumblebees of western North America. *Pan-Pacif. Ent.* 38(1): 21–28.
- Tillet, B. C. 1915. Mimicry—Some of nature's strategems. *Ottawa Nat.* 29(7): 74–76.
- Titus, E. S. G. 1902. Colorado Bombidae. *Can. Ent.* 34: 37–44.
- Tkalcu, B. 1959. Eine neue art der gattung *Psithyrus* Lep. aus Korea (Hymenoptera, Bombinae). *Čas. čsl. Spol. ent. or Acta Soc. ent. Čech.* 56(no. 3): 251–254.
- _____. 1960a. Zur hummelfauna der Apenninen (Hymenoptera, Bombinae). *Mem. Mus. civ. Storia Nat., Verona* 8: 23–68, 8 figs., 7 mps., 2 pls.
- _____. 1960b. Nouvelles formes de bourdons et bourdons parasites d'Europe centrale. *Bull. Soc. ent., Mulhouse* (Feb.–Mar.), pp. 9–12.
- _____. 1960c. Remarques sur quelques espèces de bourdons de Chine (Hymenoptera, Bombinae). *Ibid.* (Sept.–Oct.), pp. 66–71.
- _____. 1960d. Sur l'hibernation des bourdons. *Ibid.* (Dec.), pp. 96–97.
- _____. 1961a. Zwei Chinesische hummel-arten (Hymenoptera, Bombinae). *Čas. čsl. Spol. ent. or Acta Soc. ent. Čech.* 58(no. 1): 45–59.
- _____. 1961b. Zur hummelfauna der umgebung Kuku-Nors (Hymenoptera, Bombinae). *Ibid.* 58(no. 4): 344–379, 28 figs., 2 pls.
- _____. 1961c. Nouvelles formes de bourdons d'Europe centrale. *Bull. Soc. ent., Mulhouse* (Jul.–Aug.), pp. 55–56.
- _____. 1961d. Deuxième contribution sur l'hibernation des bourdons. *Ibid.* (Nov.–Dec.), pp. 105–106.
- _____. 1962a. Sur la faunistique des bourdons d'Espagne. *Ibid.* (Jan.–Feb.), pp. 14–16.

- 1962b. Bourdons capturés par M. Ed. Klinzig en 1960 et 1961. *Ibid.* (May-June), pp. 44-48.
- 1962c. Contribution à l'étude des bourdons du Japon. (I). (Hymenoptera, Apoidea). *Ibid.* (Nov.-Dec., 1962), pp. 81-100 (1963).
- Tournier, H. 1889. Descriptions d'espèces nouvelles. *L'Ent. Genev.*, Nos. 11-12, pp. 220-223 (1890).
- Townsend, C. H. T. 1936. The mature larva and puparium of *Brachycoma sarcophagina* (Townsend) (Diptera: Metopiidae). *Proc. ent. Soc., Wash.* 38: 92-98.
- Townsend, L. H. 1951. The hibernation of *Bombus impatiens* Cresson (Hymenoptera: Bombidae). *Ent. News* 62: 115-116.
- Trautmann, G. 1915. Ein äusserst seltener fund: *Antherophagus* Latr. *nigricornis* Fabr. an einer lebenden hummel. *Int. ent. Z.* (Guben) 9: 59.
- Trautmann, G., and W. Trautmann. 1915. Beitrag zur hummelkenntnis das Europäischen arktischen gebietes. *Ibid.* 9(no. 34): 189.
- Trautmann, W. 1913a. Beitrag zur kenntnis unserer hummelfauna *Bombus silvarum* v. *equestris*. *Ibid.* 7(no. 27): 182.
- 1913b. *Bombus hortorum* L. var. *starzmanni* n. v. *Ibid.* 7(no. 30): 203.
1914. Beitrag zur Europäischen hummel-forschung. *Ibid.* 7(no. 50): 333.
1915. *Bombus lapidarius* var. *alitcola* Kriechbaumer. *Ibid.* 8(no. 34): 189.
- Trojanowa, R. 1956. Zeszyt 35. Conopidae, pp. 3-40. In: Klucze do oznaczania owadów Polski, Części XXVIII. *Polski zwi. ent.*, Nr. 19 [n.s.].
- Tuck, W. H. 1896. Inquiline and other inhabitants in nests of aculeate Hymenoptera. *Entomologist's mon. Mag.* 7: 153-155.
1897. Coleoptera etc. in the nests of aculeate Hymenoptera. *Ibid.* 8: 58-60.
- Tucker, E. S. 1908. Additional results of collecting insects in Kansas and Colorado. *Trans. Kans. Acad. Sci.* 22(2): 276-304 (1909).
- Twinn, C. R. 1948. The poet's Hymenoptera. III: Bumble bees, the ichneumons, and the gall wasps. *Pests* 16(10): 20, 22.
- Uchida, T. 1926. Über eine *Psithyrus*-art von Sachalin. *Dobutsug. Zass., Tokyo* 38(452): 151-155.
1936. Einige hymenopteren aus dem berg Daisetsu. *Biogeography (Trans. Biogeogr. Soc., Japan)* 1: 63-74.
- Vachal, J. 1904. Voyage de M. G. A. Baer au Tucuman (Argentina). Hymenoptera mellifera. (Familia unica: Apidae). *Revta Ent. Caen* 23: 9-26.
1906. Apidae. [Bombinae, pp. 63-64.] In: Expédition Antarctique Belge. Résultats du voyage du S.Y. Belgica en 1897-1899 sous le commandement de A. de Gerlache de Gomery. Rapports scientifiques, etc. Vols. 7-9, Zool. (Insectes): 1-92, 5 pls. (col.). Commission de la Belgica, Anvers (Antwerp).
- Valkeila, E. 1961. Harvinainen *Bombus ruderarius* (Müll.) värimuunno läydetty Forssasta (Hym., Apoidea). [A rare aberration of *Bombus ruderarius* (Müll.) found in Forssa.] *Loun.-Häm. Loun.* 11: 83-84, 1 fig. (In Finnish.)
- Valle, O. 1935. Undersökningar över klöverarternas pollination och fröbildning. In: Beret, nord. jordbrugs. foren., femte Kongres, København, 1935. *Nord. Jordbrugsf.*, Hfn. 4-7, pp. 489-497.
- (1948) 1949. De olika humlearternas samt betydelse för rödklövers pollination. *Ann. Ent. fenn.* 14(Suppl.): 225-231. (With English summary.)
1955. Untersuchungen zur sicherung der bestäubung von rotklee. *Acta agric. fenn.* 83: 205-220.
1959. Kimalaiset ja mehiläiset puna-apilan pölyttäjinä. *Maatalous Koetim* 13: 227-237. (With English summary.)
- Van der Vecht, J. 1957. On some Hymenoptera from the collection of Guérin-Menville in the Leiden Museum. *Zool. Meded.* 35(3): 21-31.
- Vanhöffen, E. 1897. Die fauna und flora Grönlands. Insekten und spinnentiere. (pp. 141-159.) In: Grönland—Expedition der gesellschaft f. erdkunde zu Berlin, 1891-1893. Band 2. 383 pp.
- Van Ingen, G. 1887. Humblebees and petunias. *Bot. Gaz.* 12: 89.
- Vecht, J. (See under van der Vecht.)
- Verhoeff, C. 1892. Einige bemerkungen über apiden. *Berl. ent. Z.* 36(h. 1): 203-206.
- Verlaine, L. 1934. L'instinct et l'intelligence chez les hyménoptères, XXV. La spécialisation et la division du travail chez les bourdons. *Bull. Soc. Sci. Liège* 4: 81-86.
- Viereck, H. L. 1902. Hymenoptera of Beulah, New Mexico. (pp. 43-100.) In: Skinner, A list of the insects of Beulah, New Mexico. *Trans. Am. ent. Soc.* 29: 35-117 (1903).

- _____. 1903a. *Bombus gelidus* Cresson, *B. kincaidii* Ckll. *Ent. News* 14: 54.
- _____. 1903b. Maryland Hymenoptera (Aculeata). *Ibid.* 14: 119–122.
- _____. 1904. Synopsis of bees of Oregon, Washington, British Columbia and Vancouver. *Can. Ent.* 36: 93–100.
- _____. 1906. Notes and descriptions of Hymenoptera from the western United States. *Trans. Am. ent. Soc.* 32: 173–247.
- _____. 1923. Hymenoptera of the Pribilof Islands, Alaska. (p. 236.) In: North American fauna, no. 46, "A Biological Survey of the Pribilof Islands, Alaska" *U.S. Bur. Biol. Surv.*, pp. 229–236.
- _____. 1926. pp. 106–107. In: Criddle, The entomological record, 1925. 56th Rep. ent. Soc. Ont. (Canada), pp. 94–107.
- Viereck, H. L., et al. 1916. Guide to the insects of Connecticut. III. The Hymenoptera, or wasp-like insects of Connecticut. *Conn. geol. nat. hist. Surv. Bull.* 22. 824 pp., 10 pls.
- Villers, C. de. 1789. Caroli Linnaei entomologia, faunae Suecicae descriptionibus, etc. Vol. 3. 657 pp., 4 pls. Piestre et Delamolliere, Lugduni.
- Vitzthum, H. (Graf). 1931. *Bombus-parasitiden*. *Zool. Jb., abt. syst.* 60: 1–45.
- Vleugel, D. A. 1949. [Observations on the fanning and beginning of the day of the stone bumblebee, (*B. lapidarius* (L.).] *De Lev. Nat., Amsterdam* 52: 24–29. (In Dutch.)
- Vogt, O. 1908. Bombi (hummeln). (pp. 100–101.) In: Wissenschaftliche ergebnisse von Expedition Filchner nach China und Tibet, 1903–05. Band 10, T. 1. xii + 288 pp., 26 pls., 1 mp. Mittler, Berlin.
- _____. 1909. Studien über das artproblem. 1: Mitteilung. Über das variieren der hummeln. 1 T. *S. B. Ges. naturf. Freunde, Berlin*, pp. 28–84, 1 pl.
- _____. 1911. *Idem*. 2: Mitteilung. Über das variieren der hummeln. 2. T. (Schluss). *Ibid.* pp. 31–74.
- _____. 1947. Ethnos, ein neuer begriff der populations—taxonomie. *Naturwissenschaften* (Berl.) 34(h. 2): 45–52, 23 figs.
- Vogt, C., and O. Vogt. 1938. Sitz und wesen der krankheiten im lichte der topistischen hirnforschung und des variieren der tiere. II Teil, I hälften. Zur einfuhrung in das variieren der tiere. Die erscheinungszeiten der variation. *J. Psychol. Neurol., Leipzig* 48(hfn. 3–4): 169–324, 648 figs.
- Vollenhoven, S. C. Snellen van. 1873. Description d'un *Bombus* nouveau de l'isle de Sumatra. *Tijdschr. Ent.* 16: 229–230, 1 pl.
- [Voejkov, G. S.] 1953. [Natural changes in female bumblebees (Hymenoptera, Bombidae).] *Ent. Obozr.* 33: 174–181. (In Russian.) (Reviewed by Kupchikova, 1959, q.v.)
- Voejkov, G. S., et al. 1958. [The attempt to create an artificial population of bumblebees for the purpose of increasing the seed production of red clover.] *Trud., zool. Inst., Akad. nauk SSSR* 24: 247–270. (In Russian.)
- Vuyck, L. 1921a. Nederlandsche hommels. *De Lev. Nat., Amsterdam* 26(afl. 1): 7–16.
- _____. 1921b. *Idem*. Determinatie tabel voor de inlandsche soorten van de geslachten *Bombus* en *Psithyrus*. *Ibid.* 26(afl. 3): 70–75.
- _____. 1921c. Nederlandsche hommels. *Ibid.* 26(afl. 4): 92–108.
- _____. 1921d. *Idem*. *Ibid.* 26(afl. 5): 5–122.
- _____. 1922. *Idem*. *Ibid.* 27(afl. 2): 38–48.
- _____. 1923. *Idem*. *Ibid.* 28(afl. 1): 7–16; *Ibid.* 28(afl. 3): 65–72.
- _____. 1924. *Idem*. Opmerkingen over hommels. *Ibid.* 29(afl. 3): 77–86.
- Wagner, W., v. 1905. Ueber die genesis und die entwicklung der geselligkeit im tierreiches. *C. r. Congr. Zool.* 6: 674–689.
- _____. 1907. Psycho-biologische untersuchungen an hummeln mit bezugnahme auf die frage der geselligkeit im tierreiche. *Zool.* H. 46, pp. 1–239, 136 textfig., u. 1 taf. (1906–1907).
- Wahlberg, P. F. 1851. Technningar ur insekternes hoardagslifin. *Förh. scand. Naturf.* 6: 72a–72d (1855).
- _____. 1854. Iakttagelser och anmarkningar ofver de nordiska humlorna. *Ofvers K. VetenskAkad. Förh.*, pp. 199–211 (1855).
- _____. 1857. Beobachtungen über die nordischen hummeln. *Z. Ges. naturw., Halle* 9: 132–136.
- Walckenaer, C. A. 1802. Faune Parisienne, . . . Insectes. Vol. 2. xxii + 438 pp. Dentu, Paris.
- Walcott, W. H. L. 1845. *Apathus barbutellus* bred in a nest of *Bombus pratorum*. *Zoology* 3: 848.

- Walrecht, B. J. J. R. 1954a. Over de bouwinstincten der hommels en de noodzaak van een hernieuwd onderzoek op gewijzigde basis. *De Lev. Nat., Amsterdam* 57: 46–50, 4 figs.
- _____. 1954b. Een nest van de akkerhommel. *Ibid.* 57: 130–133, 1 fig.
- _____. 1956. Een nest van de tuinhommel. *Ibid.* 59: 230–233, 1 fig.
- _____. 1957. [Nests of *Bombus lapidarius* and *B. subterraneus*.] *Ibid.* 60(3): 64–66; *ibid.* 60(10): 233–236. (In Dutch.)
- Walsh, B. J. 1864. On certain entomological speculations of the New England school of naturalists. *Proc. ent. Soc. Philad.* 3: 207–249.
- Washburn, F. L. 1918. The Hymenoptera of Minnesota. In: 17th *Rep. St. Ent. Minn.*, pp. 145–237 (1919).
- Webb, M.C. 1961. The biology of *Psithyrus variabilis* (Cresson) (Hymenoptera, Apoidea). *Proc. Nth Cent. Br. ent. Soc. Am.* 16: 16. (Planeographed.)
- Webb, R. J. 1898. Pollination of the closed gentian by bumblebees. *Am. Nat.* 32: 265.
- Weber, N. A. 1950. A survey of the insects and related arthropods of arctic Alaska, I. *Trans. Am. ent. Soc.* 76: 147–206, 7 pls.
- _____. 1953. Arctic Alaskan Hymenoptera and Coleoptera. *Ent. News* 64: 256–260.
- Westerlund, A. 1898. Wie *Bombus* seinen nestbau beginnt. *Allg. Ill. Z. Ent.* 3: 113–114.
- Westwood, J. O. 1840. In: Duncan, Natural history of bees. viii + 301 pp.; 30 pls. Lizars, Edinburgh; Highley, London; Curry, Dublin. (p. 256, pl. 17, fig. 2.) (Duncan q. v.)
- Wettstein, R., v. 1903. Der neo-Lamarkismus und seine beziehungen zum Darwinismus. Etc. 30 pp. Fischer, Jena.
- Weyrauch, W. 1937. Recherches nouvelles sur la chaleur dans les nids d'hyménoptères sociaux. *Mém. Soc. r. sci. Liège*, 4 Ser., 11: 369–394 (1938).
- Wheeler, W. M. 1913. Review: Sladen, The humble bee. *Science* (n.s.) 37(944): 180–182.
- _____. 1919a. The parasitic Aculeata, a study in evolution. *Proc. Am. Phil. Soc. Philad.* 58: 1–41.
- _____. 1919b. The phoresy of *Antherophagus*. *Psyche, Camb.* 26: 145–152, 1 fig.
- _____. 1928. The social insects. Their origin and evolution. xviii + 378 pp. Harcourt, Brace, New York; Paul, Trench, Trubner, London.
- Whelden, R. M. 1954. Notes on the bumblebee (*Bombus fervidus* Fabricius) and its chromosomes. *Jl N.Y. ent. Soc.* 62: 91–97.
- White, W. J. 1947. Encouraging an ally, etc. *Country Guide* 66(7): 20–21.
- Wilcke, J. 1953. Domestication of bumblebees for red clover pollination. *Versl. cent. Inst. landbouwk. Onderz. Ov.*, pp. 43–47.
- Wild, O. H. 1924. Observations on the humble-bees of Bute. *Scott. Nat.* (Edinburgh), pp. 53–60.
- _____. 1931. Notes on the peculiarities of some Lepidoptera and Hymenoptera from the Inner and Outer Hebrides. *Ibid.* No. 190, pp. 113–119, 1 pl.
- Wille, A. 1956. Comparative studies of the thoracic musculature of bees. *Univ. Kans. Sci. Bull.* 38: 467–499.
- _____. 1958. A comparative study of the dorsal vessels of bees. *Ann. ent. Soc. Am.* 51: 538–546.
- Williams, J. L. 1897. Intoxication of humble-bees on certain capitulate flowers. *J. Bot. (Brit. & For.)* 35: 8–11.
- Wilson, E. O. 1954. A new interpretation of the frequency curves associated with ant polymorphism. *Insectes soc.* 1: 75–80, 2 figs.
- Wilson, J. 1909. Report of the [U.S.] Secretary [of Agriculture]. *Yb. U.S. Dep. Agric.*, p. 108.
- Wnukowsky, W. 1929. Einige faunistische angaben über die insekten Sibiriens und des Ussuri-gebietes. *Zool. Anz.* 83(nos. 9–10): 212–220.
- _____. 1936. Beiträge zur insekten-fauna des bezirkes von Tomsk (West-Sibirien). *Konowia* 15(h. 2): 113–128.
- Wu Chenfu, F. 1941. Catalogus insectorum sinensium. Volume 6. i–vi + 4 unnumb. + 353 pp. and appendices i–xv. Yenching University, Peiping.
- Yarrow, I. H. H. 1954. Some observations on the genus *Bombus* with special reference to *Bombus cullumanus* (Kirby) (Hym. Apidae). *J. Soc. Br. Ent.* 5(Pt. 1): 34–39, 15 figs.
- _____. 1955. *Bombus (Alpinobombus) hyperboreus clydensis* n. ssp., from Baffin Island, North-West Territories, Canada. *Ann. Mag. nat. Hist.*, Ser. 12, 8: 151–152.

1959. (See Free and Butler 1959.)
- Yasumatsu, K. 1933. On a new variety of *Psithyrus sylvestris* (Lepeletier) from Corea. *Insect World, Gifu* 37(nr. 426): 41–43.
- 1934a. On the male of *Bombus bicoloratus* Smith (Hymenoptera, Bombidae). *Trans. nat. Hist. Soc. Formosa* 24(no. 135): 543–545.
- 1934b. Eine neue *Bombus ignitus* Smith ähnliche schmarotzerhummel aus Korea. (Hymenoptera, Bombidae). *Annot. zool. Jap.* 14(no. 4): 399–403.
1935. Insects of Jehol, VIII. Superfamily Apoidea (Order Hymenoptera, II). Art. 67. pp. 1–47, 7 pls. In: *Rep. First Sci. Exped., Manchuoko*, Sect. 5, Vol. 4, Pt. 12. (In Japanese.)
- 1939a. Notes on some species of the genus *Psithyrus* Lepeletier from Korea (Hym.: Bombidae). *Trans. Kansai ent. Soc., Osaka* 9(no. 2): 19–21, 4 figs. (In Japanese with English summary.)
- 1939b. On the occurrence of the genus *Psithyrus* Lepeletier in Honshyū, Japan (Hym., Bombidae). *Konchu-Kenkyū* 3(no. 1): 18–21. (Entirely in Japanese, except part of p. 20 in English.)
1940. Contributions to the hymenopterous fauna of Inner Mongolia and North China. *Trans. Sapporo nat. Hist. Soc.* 16(pt. 2): 90–95.
1946. Hymenoptera Aculeata collected by Mr. K. Tsukeni in North China and Inner Mongolia, III. Apoidea: I. *Mushi* 17(1): 19–26.
- 1947a. Some wasps and bees of the desert Kunshantagh in Inner Mongolia. *Ibid.* 18(4): 29–33.
- 1947b. Hymenopterous fauna of N[orth] Kyushu. *Biosphaera* 1: 31–35. (In Japanese.)
1949. Synonymy and other taxonomic notes on the two commonest bumble bees of eastern Asia. *Insecta matsum.* (Sapporo) 17: 17–22, 1 fig.
1951. *Bombus* and *Psithyrus* of Shansi, N[orth] China (Hymenoptera, Apidae). *Mushi* 22: 59–62.
- Yeo, P. F. 1961. Records of Aculeata from Leicestershire. *Entomologist's mon. Mag.* 97: 134.
1963. *Bombus soroensis* (Hym., Apidae) in Leicestershire—a correction, and *Coelocrabo ambiguus* (Hym., Sphecidae) in Cambridgeshire—a new record. *Ibid.* 99 (1187–1188): 81.
- Zavattari, E. 1910. Imenotteri della valle del Roja. (Mater. per la fauna alpina del Piemonte.) *Bol. Mus. Zool. anat. comp. Univ. Torino* 25(no. 633): 1–4.
1911. Imenotteri della valle del Maira. (*Idem*). *Ibid.* 26(no. 643): 1–4.
- Zetterstedt, J. W. 1838. *Insecta Lapponica descripta. Sectio secunda. Hymenoptera. Cols. 317–476.* (Complete work, 1840, 5 sections, 1140 cols. + iii–vi. Voss, Lipsiae.)
- Zhivoyinovit, S. 1950. La fauna des insectes du domaine forestier de Majdanpek. Monogr. 160 (no. 2), vii + 262 pp., 21 pls., 1 mp. Acad. Serb. Sci., Inst. Ecol. Biogéogr., Belgrade. (In Serbian with French summary.)
- Zikán, W., and P. Wygodzinsky. 1948. Catálogo dos tipos de insetos do Instituto de Ecologia e Experimentação Agricolos. *Bol. Serv. nac. Pesq. agron.*, no. 4, pp. 1–93. Rio de Janeiro.
- Zimmerman, K. 1935. Zur fauna von Sylt. II: Wirbellose. *Schr. naturw. Ver. Schlesw.-Holst.* 21: 278–286.