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Parapsammaphila turanica F. Morawitz.
Photograph taken at Wadi Gharandal, Sinai Peninsula, on 21 May 1993

BIBLIOGRAPHY OF SPHECIDAE *sensu lato* **(= Heterogynaidae, Ampulicidae, Sphecidae *sensu stricto*, and** **Crabronidae)**

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This Bibliography and the associated Catalog had been started in the late 1950s, long before the Sphecidae were split into Heterogynaidae, Ampulicidae, Sphecidae *sensu stricto*, and Crabronidae. Included are the papers dealing with these four families, as if they were the single family Sphecidae in the old sense.

Completing a bibliography is a daunting task, and this one certainly does not include all the papers in which Sphecidae are mentioned. First, many papers are published in regional periodicals or books that are not widely circulated and can only be obtained with considerable effort (many such papers are of little general interest, being just lists of commonly collected species from within the known range). Second, I was not able to include many papers published in Japanese, even those that appeared in such prestigious journals as *Kontyû* and *Mushi*. Some but not all papers dealing with nest parasites of Sphecidae are included, somewhat inconsistently, as are papers dealing with sphecid morphology. I like to think, however, that all publications containing descriptions of new species and new synonymies and all revisionary works have been considered.

In spite of these limitations, the Bibliography contains about 10,363 entries (not counting cross-references). All included papers or their copies have been seen by the compiler unless indicated otherwise. An asterisk (*) preceding the date indicates that the paper's content has been cataloged (see Genera and Species under Catalog of Sphecidae). When two publication years are given, the first is the actual publication year, the second (in parentheses) is the intended but incorrect year given on the title page. In many cases publication day and/or month are also provided. For example, a notation "1949. (27 Jan.). (1948)." means that the volume for 1948 was mailed on 27 January 1949. If a title is given in two languages, the second title is preceded by a dash (–). Titles and journal names in square brackets and preceded by the equals sign [=] were given either by the journal editor or the present

compiler, not the original author. Titles of periodicals are spelled in full. When two periodicals with identical names are known to exist, each is followed by the name of a city (in parentheses) where it is published. Examples include *Entomologisches Nachrichtenblatt* (Burgdorf) and *Entomologisches Nachrichtenblatt* (Troppau), *Kosmos* (Lwów, Warszawa) and *Kosmos* (Stuttgart), *The Naturalist* (London), *The Naturalist* (Port Elizabeth), and *The Naturalist* (Sheffield), *Opuscula Zoologica* (Budapest) and *Opuscula Zoologica* (München), *Zoologische Mededelingen* (Amsterdam) and *Zoologische Mededelingen* (Leiden). *Entomologische Berichte*, published in Berlin, and *Entomologische Berichten*, published in Amsterdam, are not considered identical. Authorship is assigned to the individual(s) who wrote a given publication. One exception is the *Règles Internationales de Nomenclature Zoologique* and the *International Codes of Zoological Nomenclature* (Editions 1-4) that are placed under the International Commission on Zoological Nomenclature.

In spite of my efforts, errors may exist in dating, spelling, volume numbers, and pagination. I would appreciate these being brought to my attention.

GENERAL TOPICS. – Geyer, 1912 (structure of compound eyes); G. Carpenter, 1930a (pompilids use gastral tip to ram the earth during nest closure, sphecids use the front of the head); E. Nielsen, 1936 (classification of nests); H. Ross, 1936 (wing venation and cells); Rau, 1938a (prey selection); Iwata, 1942c (comparative studies of behavior); Malyshev, 1949, 1959, 1966, 1968 (biological evolution); Marquenie, 1954 (function of open nest entrance in ground nesting species); Hertzog, 1956 (classification of prey carrying types); Evans, 1962d (evolution of prey carrying mechanism), 1963c (nesting behavior of selected species, discussion of “tool use” in *Ammophila* on p. 57, discussion of behavioral evolution of wasps), 1964e (classification based on larval characters); Iwata, 1965 (ovaries); Steiner, 1965 (description of artificial nest for rearing specimens in laboratory); Evans, 1966a (behavioral patterns), 1966b (accessory burrows), 1966d (comparative ethology and evolution of Bembicinae); Perez D’Angello, Rojas A., and Gaultier A., 1971 (wing venation and cells); Iwata, 1976 (evolution of behavior); Genise, 1980a (evolution of prey carrying mechanisms); Lanham, 1981 (origin of bees); Steiner, 1986 (stinging patterns, review of prey); S. Frank and Crespi, 1989 (origin of sib-rearing and subsequent evolution of complex social groups); Quicke, Ingram, Baillie, and Gattens, 1992 (sperm structure and ultrastructure); Brothers, 1999, and Melo, 1999 (reclassification of Apoidea: recognized Heterogynaidae, Ampulicidae, Sphecidae, Crabronidae, and Apidae); Melo, 2000 (detailed review of social behavior); Tschuch and Brothers, 2000 (stridulatory organs); Budrys, 2001a (origin of nest building behavior); Herzner et al., 2003 (flagellar sensillae in *Philanthus triangulum*), 2007 (covering prey with postpharyngeal gland secretion); Ohl and Linde, 2003 (number of ovarioles); Gnatzy, Volkandt, and Schulz, 2004:125 (Dufour gland: structure, development, biochemical aspects); Field, 2005 (evolution of progressive provisioning); Kaltenpoth et al., 2005, 2006 (presence of streptomycetes bacteria in female antennal glands in *Philanthus*); Zama, Brito, Kino-Neto, Campos, Dolder, and Báó, 2005:313 (sperm structure in *Sceliphron fistularium*); Herzner et al., 2006 (variation in sex pheromone in males of *Philanthus triangulum*); Asís, Benítez, Tormos, Gayubo, and Martín Tomé, 2007 (significance of vestibular and intercalary cells in nests of *Trypoxylon attenuatum*); Deyrup and Eisner, 2003 (red and black coloration in Florida Hymenoptera); Gnatzy and Jatho, 2006 (antennal sensillae in *Liris niger*); Morato and Martians, 2006 (proximate factors affecting nesting behavior of wood-nesting species); Evans and O’Neil, 2007 (review of nesting habits of Bembicini); Kroiss et al., 2006 (postpharyngeal gland in males of *Philanthus triangulum*); Araújo and Gonzaga, 2007 (individual specialization on prey); Ohl and Engel, 2007 (the early Cretaceous *Melittosphex burmensis* probably is a sphecid wasp and not a bee); Ohl and Thiele, 2007 (head width, mesoscutum width, and forewing length are the most reliable measures of body size); Protsenko and Matushkina, 2007 (structure of labiomaxillary complex in various genera); Strohm, Herzner, and Goettler, 2007:113 (postpharyngeal gland in females of *Philanthus triangulum* is homologous to that of ants); Shreeves and Field, 2008 (provisioning taxa have significantly more female-biased size dimorphism than nonprovisioning taxa); V. Lohrmann, Ohl, Bleidorn, and Podsiadlowski, 2008 (classification of Sphecidae s.l. based on molecular data); Zama, Moreira, Báó, Campos, Dolder, and Lino-Neto, 2007:304 (structure of testicular and post-testicular spermatozoa in two species of *Microstigmus*); Kross, Bordon, and Strohm, 2008:1555 (cuticular hydrocarbons in *Philanthus triangulum* are likely

to attract nest parasite *Hedychrum rutilans*); Antropov, 2009 (analysis of wing venation reduction); Berton, Castanho, and Buschini, 2009:419 (mathematical fuzzy rule-based system approach toward fertility, nest size, and survival of *Trypoxylon lactitarse*); Frantsevich and Wang, 2009:17, 19, 20, 21, 23, 27 (thorax-coxa, coxa-trochanter, and femur-tibia articulations in *Ammophila campestris*); Kalltenpoth, Schmitt, and Strohm, 2009:219 (secretion of female antennal glands has dual role: 1. provides larva with information about orientation of cocoon spinning, 2. supplies larva with symbiotic bacteria that protect cocoon against pathogenic microorganisms; it consists of 28 substances, mostly saturated and unsaturated hydrocarbons); Strohm, Kaltenpoth, and Herzner, 2010 (postpharyngeal gland of *Philathus triangulum* is homologous to that of ants); Nemkov, 2010b (key to genera of Gorytina), 2011 (characteristics of distribution of sphecids wasps in the Russian Far East); V. Araújo, Moreira, and Lino-Neto, 2009 (structure and ultrastructure of spermatozoa in *Trypoxylon albitarse*); Kaltenpoth et al., 2010 (presence of streptomycetes bacteria in female antennal glands in *Trachypus*); Nemkov and Ohl, 2011 (cladistic analysis and reclassification of Bembicini); Antropov, 2011b:236 (list of extant and extinct genera of Pemphredoninae), 237 (key to tribes of Pemphredoninae, both extant and fossil), 238 (cladogram of genera of Pemphredoninae); Field, Ohl, and Kennedy, 2011:732 (molecular phylogeny of Ammophilini); N.J. Smith, 2012:228 (revised key to Ammoplanina); Andrietti, 2011 (detailed review of observations by Fabre, Fertou, G. Williams, E.M. Peckham, and Steiner; perspectives for future biological observations); Melo, Hermes, and Garcete-Barrett, 2011:1 (origin of predation among Hymenoptera); Coelho, 2011:23 (effects of prey size and load carriage on evolution of foraging strategy); Polidori, 2011 (role of prey spectrum and prey size in evolution of sociality in *Cerceris*); Polidori, Santoro, Asís, and Tormos, 2011 (individual prey specialization); Debevec, Cardinal, and Danforth, 2012 (cladistic analysis of Aculeata); Nemkov, 2012b (review of biology of Bembicinae), 2017 (zoogeography of Palearctic Bembicinae); Gayubo and Pujade-Vilar, 2015 (general review of Hymenoptera, particularly of Iberian Peninsula); Sann, Niehuis, Peters, Mayer, Kozlov, Podsiadlowski, Bank, Meusemann, Misof, Bleidorn, and Ohl, 2018 (cladistics classification of Apoidea); Field, Gonzalez-Voyer, and Boulton, 2020 (evolution of parental care strategies in sphecids wasps); Beutel, Richter, Keller, Garcia, Matsumura, Economo, and Gorb, 2020:5 (detailed description of legs); Willsch, Friedrich, Baum, Jurisch, and Ohl, 2020 (musculature of mesothorax); Graf, Willsch, and Ohl, 2021:261 (musculature of sting apparatus).

REGIONAL KEYS. – A list of regional keys to genera or species was given by Bohart and Menke (1976:29). Other keys include: Honoré, 1942 (key to genera of Europe and Mediterranean Basin); R. Bohart and Horning, 1971 (California Bembicini); R. Bohart and Grissell, 1975 (California Philantinae); Kazenas, 1978b (Kazakhstan and Central Asia); Pulawski, 1978 (European part of USSR); Richards, 1980 (British Isles); Finnamore, 1982 (southern Quebec); Pagliano, 1984, 1985, 1986, 1987, 1988, 1989, 1991b, 1992a (Italy); R. Bohart and Gillasp, 1985 (California Stictiellina); Willmer, 1985c (genera of British Isles); Guichard, 1986 (genera of Saudi Arabia); Dollfuss, 1991 (Austria); Bitsch and collaborators, 1993, 1997, 2001 (Europe); Nemkov, Kazenas, Budrys, Antropov, 1995 (Eastern Siberia and Russian Far East); Hanson and Menke, 1995:641 (Costa Rican genera of Crabronini), 645 (Costa Rican genera of Gorytini); Menke and Fernández, 1996 (genera of Neotropical Region); Kazenas, 1998b (genera of Kazakhstan); W. Klein (improved keys to species of Benelux); Sk. Yamane, Ikudome, and Terayama, 1999 (Nansei = Ryukyu Islands, Japan); Porter, Stange, and Wang, 1999 (genera of Taiwan); Roche and Gadallah, 1999 (genera of Egypt); Kazenas, 2000e (Astatinae and Pemphredoninae of Kazakhstan); Pulawski, 2003 (genera of Madagascar); Gadallah and Assery, 2004a (Jeddah Region, Saudi Arabia); Terayama, 2004b (genera of Japan, in Japanese); Ebrahimi, 2005 (selected Iranian species); Pagliano and Negrisol, 2005 (Italy); Terayama and Tano, 2005 (*Cerceris* of Japan, in Japanese), 2006 (Ampulicidae and Sphecidae of Japan, in Japanese); Amarante, 2006a (tribes of Neotropical Sphecidae), 2006b (key to tribes of Neotropical Crabronidae); Terayama, 2006 (Nyssoninae of Japan, in Japanese); Terayama and Tano, 2006 (Ampulicidae and Sphecidae of Japan, in Japanese); Jacobs, 2007 (Germany); Terayama, 2008 (Larrinae of Japan, in Japanese); Nemkov, 2009b (key to genera of Asiatic Russia); Terayama and Nambu, 2009 (Trypoxylini of Japan, in Japanese); Terayama, 2012 (Pemphredonini of Japan, in Japanese); Nemkov and Lelej, 2013 (genera of Bembicinae); Kim, Yeo, and Kim, 2014 (Sphecidae sensu stricto of South Korea); Bitsch and collaborators, 2020 (Europe: Heterogynaidae,

Ampulicidae, Sphecidae, part of Crabronidae), 2021 (Europe: Crabroninae, Dinetinae, Eremiaspheciinae, Mellininae), 2022 (Europe: Pemphredoninae and Philanthinae); Gadallah, Malash, and Edmardash, 2025 (genera of Arabian Peninsula); Pham, 2024.

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LATEST ADDITIONS. – To help users monitor the growth of this Bibliography, the latest additions are listed below:

1 January 2025 through 31 December 2025: Józán and Haris, 2019; Liu, L. Ma, and Q. Li, 2024; J. Li, L. Ma, and Q. Li, 2024; Yue, Q. Li, and L. Ma, 2022; Fu, Q. L, and L. Ma, 2024; Román, Picón-Rentería, Causton, Betancourt-Cargua, Frey, and Herrera, 2024; Deng, L. Ma, and Q. Li, 2025; Girish Kumar, Sen, Hegde, and Rabeesh, 2024; Buck and Bennett, 2025; Schmid-Egger, Ghaderipour, Talebi, Mehrabadi, and Madjdzadeh, 2025; Augul and Hamodee, 2025; Klein, 2025; Leclerc, Dodgson, and Buck, 2024; Pytel-Huta and Franchuk, 2024; Girish Kumar and Amal, 2025; Krishtal, 1949, 1957; Kochetkov and Korsun, 2025; Barthélémy and Guénard, 2025; Mokrousov and Proshchalykin, 2025a; Morice, 1910; Efil, Kaplan, and Uzlu, 2024; Gülmez, Çubuk, and Can, 2025; de Deus, de Lima Klates, and Buschini, 2025; Sivell and Boyes, 2025; Jacobs, 2025a; Barrera-Medina and Rothmann, 2025; Zou, Ma, Chen, and Li, 2025; Jiang, Li, and Ma, 2025, Liu, Li, and Ma, 2025; Jacobs, 2025b; Malash, Edmardash, and Gadallah, 2024; Olszewski, Bogusch, Wiśniowski, and Szpila, 2024; Olszewski and Grzywacz, 2025; Schmid-Egger and Al-Jadhani, 2025; Bertsch, Brunßen, Guericke, Hoffmann, Kratschmer, Maßell, Mehlhorn, Unglaub, Wörner, Wiesbauer, Zettel, Schmitt, and Niehuis, 2025; Schmid-Egger, 2025;

Mawadda, Aseeb, and Girish Kumar, 2025; Pulawski, 2025; Gadallah, Malash, and Edmardash, 2025; Johansson, Paukkunen, and Hellquist, 2021; Ch. Li, Q. Li, and L. Ma, 2025; Bai, L. Ma, G. Tang, and Q. Li, 2025; Mokrousov, Proshchalykin, and Maharramov 2025; Mokrousov and Proshchalykin, 2025b; Deng, L. Ma, and Q. Li; Hoop, 1986; Díaz-Quirós, Garrido Trujillo, Añino, and Santos-Murgas, 2025; Flórez, Yepes, and Rodríguez, 2010; Frommer and Klenke, 2025; Mokrousov and Proshchalykin, 2025c; Dollfuss, 2025; Jacobs, 2025c; Saini and Dey, 2025; Pulawski, 2025; Rosa and Melo, 2024; Krichilsky, Sann, and Ohl, 2025; Reder, 2025; Reder, Fischer, and Michalski, 2025.

1 January 2026 and up to date: C. Porter, 1898; R. Zimmermann, Kunz, Moosbauer, Prem, and Strenz, 2025; Amal, Anand, Rameshkumar and Girish Kumar, 2025; Prentice, 1998; Pham, 2024; Binoy and Girish Kumar, 2024.

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- 1842-1846. *Nomenclator zoologicus continens nomina systematica animalium tam viventium quam fossilium, secundum ordinem alphabeticum [sic] disposita, adjectis auctoribus, libris, in quibus reperiuntur, anno editionis, etymologia et familiis, ad quas pertinent, in singulis classibus. Jent et Gassmann, Soloduri [= Solothurn, Switzerland]. Published in 12 fascicles. Each of the 29 classes or orders has its own pagination. Praefacio Operis (XLII pp.) in Fasc. IX, 1846; Hymenoptera (36 pp.) in Fasc. VII-VIII, 1846; Nomenclatoris Zoologici Index Universalis (393 pp.) in Fasc. XII, 1846. Index Universalis separately reprinted in 1847; and in 8° in 1848, 1135 pp. Dating after Bowley and Smith, 1968, Kevan, 1970, and Evenhuis, 1997. Available through: <https://biodiversitylibrary.org/page/33663211>*
1845. *Nomina systematica generum Hymenopterorum tam viventium quam fossilium, secundum ordinem alphabeticum [sic] disposita, adjectis auctoribus, libris in quibus reperiuntur, anno editionis, etymologia et familiis ad quas pertinent. Guil. F. Erichson et L. Imhoff, no publication place provided, 36 pp. Available through: <http://biodiversitylibrary.org/page/14299548ps://www>*

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Correction. The key to genera in this paper contains a grave error: the genus *Stenogorytes* is assigned to the key section with tergum I at most weakly pedunculate, whereas in reality tergum I is conspicuously pedunculate (as shown in Figures 118-124). Also the new genus *Trachogorytes* is a junior synonym of *Mellinus*).

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