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PSEN

Psen Latreille, 1796:122 (no included species). Type species: *Sphex ater* Fabricius, 1794 [= *Crabro ater* Olivier, 1792], designated by Latreille, 1802b:338 (first included species).

Psenus Rafinesque, 1815:124. Emendation of *Psen* Latreille, 1796.

Psenia Stephens, 1829a:361 (authorship attributed to Kirby). Type species: *Sphex ater* Fabricius, 1794 [= *Crabro ater* Olivier, 1792], designated by Pate, 1937c:54.

Dahlbomia Wissmann, 1849:9. Type species: *Sphex ater* Fabricius, 1794 [= *Crabro ater* Olivier, 1792], by monotypy.

Mesopora Wesmael, 1852:279. Type species: *Psen ater* of Vander Linden, 1829 [= *Sphex ater* of Panzer, 1799 = *Sphex ater* Fabricius, 1794 = *Crabro ater* Olivier, 1792], by monotypy.

Caenopsen Cameron, 1899:55. Type species: *Caenopsen fuscinervis* Cameron, 1899, by monotypy.

Key: Budrys, 1986:138 (Palearctic Region); L. Ma and Q. Li (addition to van Lith, 1968, key); Deng, L. Ma, and Q. Li, 2025a (China), 2025b (updated key to species of Cina).

Revisions: van Lith, 1968 (Indo-Australian, South Pacific, and East Asian species), 1974a (Afrotropical species), 1975a (New World).

Review of known biology: Kazenas, 2001b:118.

1. *affinis* Gussakovskij

Psen affinis Gussakovskij, 1937:652, ♀. Holotype: ♀, Russia: Primorskiy Kray: Maikhinsk forestry station, but Shkotovskiy Rayon, Shtykovo after Budrys, 1986:145 (ZIN). – Tsuneki, 1959g:50, 52 (in key to *Psen* of Japan and Korea), 65 (Japan; redescription, description of ♂); Tsuneki and Shimoyama, 1963:49 (Japan: Towada Prefecture); nec van Lith, 1965:44 (= *Psen seminitidus*); Haneda, 1968a:44 (Japan), 1968b:55 (Japan: Nagano Prefecture: Ina District); T. Iida, 1968:21 (Japan); Tano, 1968:33 (Japan); van Lith, 1968:132 (in list of East Asian, Indo-Australian, and South Pacific *Psen*, as *affinis affinis*); Itami, 1969:50 (Japan: Niigata Prefecture); Tsuneki, 1969e:26 (Japan: specimens in Osaka Museum of Natural History), 1970b:10 (central Japan), 1969k:64 (Japan: Mount Hyonosen); Haneda, 1971a:19 (Japan: Fukui Prefecture); Tano, 1971:81 (Japan: Shikoku: Mount Tsurugi); Nambu, 1973a:151 (Japan: Saitama Prefecture); Suda, 1973:122 (Japan: Yamanashi Prefecture); Nambu, 1975b:67 (Japan: Saitama Prefecture); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae); Kazenas, 1980e:87 (Russia: Far East: Sakhalin and Kunashir Islands); Budrys, 1986:142 (in key to Palearctic *Psen*), 145 (in revision of *Psen* of Russian Far East); Nemkov, 1992b:244 (Russia: Far East: Khingan Nature Reserve); Budrys in Nemkov, Kazenas, Budrys, et Antropov, 1995:394 (in key to Sphecidae of Russian Far East); Yamane, Ikudome, and Terayama, 1999:490 (in Identification Guide to Crabronidae of Nansei = Ryukyu Islands, Japan); Budrys, 2000:64 (locality records, synonymy), 67 (diagnostic characters); Dollfuss, 2004a:105 (China: Yunnan Province: Cangshan Mountains at 25°38'N 100°09'E); Haneda, Nosaka, Tano, Kurokawa, and Murota, 2004:30 (Japan: Gifu Prefecture); Suda, 2004:39 (Japan: Yamanashi Prefecture); Haneda, Nozaka, Tano, Kurokawa, and Murota, 2005:43 (Japan: Gifu Prefecture); Negoro, Haneda, and Tano, 2005:44 (Japan: Toyama Prefecture); Nemkov, 2005a:144 (Russia: Island of Sakhalin); Haneda, Nozaka, Tano, Kurokawa and Murota, 2006a:19 (Japan: Toyama Prefecture); Nagase, 2006a:54 (Japan: Kanagawa Prefecture: Mount Komagatake near Hakone); Nemkov, 2006b:166 (Russia: Primorskiy Kray: Kedrovaya Pad' Nature Reserve), 2007b:68 (Russia: Kuril Islands: Island of Kunashir), 2008b:18 (in catalog of Sphecidae and Crabronidae of Asiatic Russia); S. Takahashi and Haneda, 2008b:42 (Japan: Hokkaido: Sapporo); Nemkov, 2009b:57 (in new catalog of Sphecidae and Crabronidae of Asiatic Russia), 2009c:235 (Russia: Primorskiy Kray: Lazovsky Nature Reserve); J. Kim and Yang, 2010:144 (in checklist of Korean Pem-

phredoninae); Nemkov, 2012c:435 (in catalog of Crabronidae of Russian Far East); Terayama and Gōkon, 2012:7, 8, 18 (in key to Psenini of Japan, in Japanese), 28 (in list of Japanese Psenini); J.-K. Kim, 2014:445 (in catalog of Sphecidae *sensu lato* of Korean Peninsula); Mokrousov, 2017e:251 (in catalog of Pemphredoninae of Russia); Deng, L. Ma, and Q. Li, 2025a:91, 95 (in key to *Psen* of China), 2025b:975, 980 (in updated key to *Psen* of China).

Psen hakusanus Tsuneki, 1959g:72, ♀, ♂ (♀ = *Psen bettoh*). Holotype: ♂: Japan: Mount Haku (originally K. Tsuneki coll., now USNM). Synonymized with *Psen affinis* by Tsuneki, 1977k:366. – Tsuneki, 1959g:50, 52 (in key to *Psen* of Japan and Korea); Iwata, 1960:210 (number of ovarioles and oocytes, egg size); Tsuneki and Shimoyama, 1963:49 (Japan: Towada Prefecture); van Lith, 1965:41 (may be a synonym of *Psen seminitidus*, bibliographic reference); Tsuneki, 1966a:24 (Japan); Haneda, 1968a:44 (Japan); van Lith, 1968:132 (in list of East Asian, Indo-Australian, and South Pacific *Psen*, as *hakusanus hakusanus*); Okuno, 1968:32 (Japan); Haneda, 1969:69 (Japan: Yamanashi Prefecture); Itami, 1969:49 (Japan: Niigata Prefecture); Tsuneki, 1969e:26 (Japan: specimens in Osaka Museum of Natural History); Tano, 1971:81 (Japan: Shikoku: Mount Tsurugi); Nambu, 1973a:151 (Japan: Saitama Prefecture); Suda, 1973:122 (Japan: Yamanashi Prefecture); Nambu, 1975b:67 (Japan: Saitama Prefecture); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae); Tsuneki, 1979d:9 (Japan); Nuhn and Menke, 1994:25 (holotype transferred to USNM); Ohl and Linde, 2003:149 (number of ovarioles); Hua, 2006:282 (in list of Chinese insects, geographic distribution); Nemkov, 2007b:68 (Russia: Kuril Islands: Island of Kunashir).

Psen affinis grahami van Lith, 1965:44, ♀, ♂ (♂ = *Psen seminitidus*). Holotype: ♀, China: Szechwan: O-Er 26 mi N Li-Fan (USNM). Synonymized with *Psen affinis* by Budrys, 2000:64. – van Lith, 1968:132 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae).

ssp. atayal Tsuneki

Psen affinis atayal Tsuneki, 1977k:367, ♂. Holotype: ♂, Taiwan: Nantou Prefecture: Sungkang (originally K. Tsuneki coll., now?). – Budrys, 2000:64 (bibliographic references); Hua, 2006:282 (in list of Chinese insects, geographic distribution).

As *Psen ohnonis*: Tsuneki, 1973d:23 (♀), corrected to *Psen affinis atayal* by Tsuneki, 1977k:366.

2. alishanus Tsuneki

Psen alishanus Tsuneki, 1967f:3, ♀, ♂. Holotype: ♀, Taiwan: Chiayi Prefecture: Mount Ali, nown Alishan (originally K. Tsuneki coll., now USNM). – van Lith, 1968:132 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); Tsuneki, 1971j:1 (Taiwan); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae); van Lith, 1976b:84 (Taiwan); Nuhn and Menke, 1994:25 (holotype transferred to USNM); Porter, Stange, and Wang, 1999:6 (in checklist of Sphecidae of Taiwan); Hua, 2006:282 (in list of Chinese insects, geographic distribution); Deng, L. Ma, and Q. Li, 2025a:92, 93 (in key to *Psen* of China), 2025b:977, 978 (in updated key to *Psen* of China).

3. amboinensis van Lith

Psen amboinensis van Lith, 1965:32, ♀. Holotype: ♀, Indonesia: Moluccas: Ambon (as Amboina): no specific locality (Bishop Mus.). – van Lith, 1968:107 (additional record from Ambon), 131 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae); Deng, L. Ma, and Q. Li, 2025a:92 (in key to *Psen* of China), 2025b:976 (in updated key to *Psen* of China).

4. angulifrons van Lith

Psen angulifrons van Lith, 1965:37, ♂. Holotype: ♂, Philippines: Mindanao: Misamis: L. Duminagat (Bishop Mus.). – van Lith, 1968:132 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae).

5. anodontotus van Lith

Psen anodontotus van Lith, 1976b:86, ♀, generic assignment (originally subgeneric) tentative. Holotype: ♀, Papua New Guinea: Morobe Province: Wau: McAdam Park (RMNH).

6. *aspites* van Lith

Psen aspites van Lith, 1968:100, ♂. Holotype: ♂, Indonesia: Sulawesi: Talassa: Maros (ZMHU). – van Lith, 1968:131 (in list of East Asian, Indo-Australian, and South Pacific *Psen*). Not listed by Bohart and Menke, 1976.

7. *assamensis* van Lith

Psen assamensis van Lith, 1965:28, ♂. Holotype: ♂, India: Assam: Khasia (OXUM). – van Lith, 1968:131 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae); Deng, L. Ma, and Q. Li, 2025b:979 (in updated key to *Psen* of China).

8. *ater* (Olivier)

Crabro ater Olivier, 1792:517, sex not stated. Holotype or syntypes: France: Paris area (lost). Neotype: ♀, France: Yvelines: Feucherolles (MNHN), designated by Leclercq, 1974d:259. – ***As Mimesa atra***: Eversmann, 1849:361 (new generic assignment, Russia: Orenburg area); A. Costa, 1864b:112 (three specimens from France in Museo Zoologico di Napoli, as *atra* Panzer); Kirchner, 1867:216 (in catalog of European Hymenoptera); Schenck, 1867a:357 (Germany: Nassau Region); Jaennicke, 1868:9 (Germany: Hessen: Frankfurt and Offenbach area); Wierzejski, 1868:117 (Ukraine: Podole Region: Skala on River Zbrucz); Thomson, 1870:233 (in revision of Swedish wasps); Wierzejski, 1874:258 (Ukraine: Podole Region: Skala on River Zbrucz); Taschenberg, 1875:387 (Germany: Halle); Girard, 1879:941 (nesting habits); F. Morawitz, 1889a:130 (China: Gansu); Krieger, 1894:18 (Germany: Kingdom of Saxony); Dalla Torre, 1897:350 (in catalog of world Hymenoptera); Mocsáry, 1900:78 (Kingdom of Hungary, some localities are in today's Croatia and Romania); N. Arnold, 1902:90 (Russia: Mohilev Province, now Belorussia); Aurivillius, 1904:257 (in revision of Swedish Sphecidae); W. Schulz, 1904b:91 (Czechoslovakia); Kubes, 1905:83 (Czech Republic: Mančč); de Gaulle, 1908:103 (in catalog of French Hymenoptera); Cavo, 1910:684 (France: Département du Nord); Bonelli, 1966c:219 (Italy: Trentino–Alto Adige: Cavalese, as *atra* Panzer). – ***As Mesopora atra***: Schenck, 1860:149 (new generic assignment, Germany: Nassau Region). – ***As Psen ater***: Spinola, 1806:94 (new generic assignment, Italy: Liguria; as *ater* Latreille); Vander Linden, 1829:104 (bibliographic references, taxonomic history, Belgium: Bruxelles, nearly all Europe, as *Psen ater* Panzer); Lomholdt, 1975c:150 (in Sphecidae Fauna of Fennoscandia and Denmark); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae); Pulawski, 1978:233 (in key to Sphecidae of European part of USSR); Casolari and Casolari Moreno, 1980:122 (specimens in M. Spinola collection); Kazenas, 1980e:87 (Russia: Far East); Richards, 1980:61 (in key to Sphecidae of British Isles); Dollfuss and Ressler, 1981:315, 321 (Austria: Niederösterreich: Scheibbs District); Felton, 1981:83 (no captures in Britain since 1850); Dollfuss, 1983a:76 (endangered in Niederösterreich, Austria), 77 (endangered in Burgenland, Austria), 78 (endangered in Oberösterreich and Salzburg area, Austria), 79 (endangered in Kärnten, Austria), 80 (endangered in Steiermark, Austria), 80 (endangered in Tirol, Austria), 80 (endangered in Vorarlberg, Austria), 1983b:4 (in catalog of Sphecidae of Austria); Chevin and Silvestre de Sacy, 1984:6 (France: Yvelines Department); Schmidt, 1984:242 (Germany: Baden-Württemberg); Józán, 1985b:55 (Hungary south of Lake Balaton), 68 (map of distribution in Hungary), 77 (floral records), 83 (ecological and zoogeographic characteristics); Islamov, 1985:530 (Uzbekistan: Tashkent Oblast'); Brechtel, 1986:62 (Germany: Südpfalz); Budrys, 1986:139 (in key to Palearctic *Psen*), 142 (in revision of *Psen* of Russian Far East); Nemkov, 1986:94 (Russia: Siberia: Irkutsk Oblast'); Steiner, 1986:99 (references to papers on nesting habits); Schmidt and Westrich 1987:366 (Germany: Mainz area); Dollfuss, 1988:9 (Austria: Bisamberg); Pankevich, Belyavskaya, Molchanova, Shlyakhtenok, and Blinov, 1989:96 (Belorussia: Berezinskiy Nature Reserve); Jacobs and Oehlke, 1990:140 (new records from Democratic Germany); Kowalczyk, 1990:290 (Poland: Góry Świętokrzyskie); Pagliano, 1990:112 (in catalog of Italian Sphecidae); Schwammberger and Priesner, 1990:534 (Austria: Kärnten); Day, 1991:xviii (summary of European Endangered Hymenoptera Lists); Dollfuss, 1991:45 (in key to Sphecidae of North and Central Europe); Jakubzik, 1991:74 (Germany: Köln); Sorg and Wolf, 1991:195 (Germany: Koppelstein Reserve SE Koblenz); van der Smissen, 1991:97 (northwestern Germany); Józán, 1992c:289 (Hungary: Zselic Hills); Nemkov, 1992b:244 (Russia: Far East: Khingan Nature Reserve); K.

Weber, 1992:88 (Germany: Bayern: Bamberg District); Kowalczyk, 1994:72 (Poland: Łagiewniki forest in Łódź); Theunert, 1994c:49 (summary of records from Niedersachsen and Bremen, Germany); Budrys *in* Nemkov, Kazenas, Budrys, et Antropov, 1995:392 (in key to Sphecidae of Russian Far East); Jansen and Kaluza, 1995:8 (Germany: extinct in Sachsen); Józán, 1995:104 (Hungary: projected Duna-Dráva National Park); Kazenas and Esenbekova, 1995:79 (Kazakhstan; bibliographic reference to leafhopper prey); Negrisola *in* Minelli, Ruffo, and La Posta, 1995b:11 (in catalog of Italian fauna); Scharrer, 1995:23 (Germany: Bayern: Kahl, Obernau); Schmid-Egger, 1995:63 (Germany: NW Baden-Württemberg); Schmid-Egger, Risch, and Niehuis, 1995:206 (summary of records from Germany: Rheinland-Pfalz Province); Yeo and Corbet, 1995:34 (in field guide to British solitary wasps); Arens, 1996:440 (Germany: Bayern: Bayreuth area); Fowles, 1996:12 (Great Britain: Red Data Book species recorded from Wales), 35 (Great Britain: in checklist of aculeates of Wales); Jakubzik, 1996:253 (Germany: Köln); Jakubzik and Cölln, 1996b:400 (Germany: Rheinland-Pfalz); Miyatake, 1996:101 (specimens in Hiroshi Aoki collection); Schmid-Egger, Schmidt, and Doczkal, 1996:378 (Germany: Baden-Württemberg: endangered); Voblenko, Gorobchishin, and Nesterov, 1996:14 (Ukraine: Polesye Region); Woydak, 1996:16 (Germany: Westfalen: summary of distribution and nesting habits), 104 (not recorded after 1950); Wu and Zhou, 1996a:64 (in revision in Economic Insect Fauna of China); Celary, 1997:57 (in checklist of Animals of Poland); Schmidt and Schmid-Egger, 1997:26 (in checklist of German Sphecidae); F. Burger, Saure, and Oehlke, 1998:29 (Germany: in list of Sphecidae of Brandenburg), 37 (probably endangered); Dollfuss, Gusenleitner, and Bregant, 1998:512 (Austria: summary of collecting records from Burgenland); Gorobchishin, 1998a:48 (Ukraine: Kiev and surroundings); Shkuratov, 1998:97 (Russia: Rostov Oblast'); van der Smissen, 1998:67 (Germany: Schleswig-Holstein: Brünkendorf, Neu Darchau, Quarstedt); K. Weber, 1998:148 (Germany: Bayern: Bamberg area); Anan'eva and Kochetkov, 1999:7 (Russia: Ryazan Oblast': no specific locality); Mandery, 1999:106 (Germany: Bayern: Coburg area); Neumayer, Schwarz, and Bregant, 1999:225 (Austria: in checklist of Sphecidae of Land Kärnten); Pauly, 1999:108 (in catalog of Belgian aculeates); M. Schwarz, 1999:85 (Austria: Oberösterreich: city of Linz area); Tüzün, Gülmez, and Bağrıaçık, 1999:384 (Turkey: Aegean Region); Blösch, 2000:150 (in Sphecid Fauna of Germany); Jacobs, 2000:9, 16 (Germany: Land Mecklenburg-Vorpommern: close to extinction); Józán, 2000:105 (Hungary: Bakony Mountains); Kazenas, 2000e:57 (in Sphecid Fauna of Kazakhstan); Schmid-Egger, 2000b:276 (Germany: Baden-Württemberg: shores of Rhine River); Viciomini, 2000b:27 (Italy: previously recorded from Campania); Dollfuss and Bitsch *in* Bitsch et al., 2001:38 (in Sphecid Fauna of Western Europe); Józán, 2001:278 (Hungary: Somogy County); Kazenas, 2001:20 (in checklist of Sphecidae of Kazakhstan and Central Asia), 118 (review of known biology); Ohl et al., 2001:141 (distribution in Germany by provinces); Tüzün, 2001:44 (Turkey); van der Smissen, 2001:63 (Germany: Schleswig-Holstein: extinct); Bieri, 2002:78 (Liechtenstein); Kazenas, 2002a:44 (geographic distribution, collecting localities in Kazakhstan); Shlyakhtenok and Skibinska, 2002:32 (Belorussia: no specific locality); Wiśniowski, 2002:68 (Poland: Ojców National Park); Generani, Pagliano, Scaramozzino, and Strumia, 2003:66 (Italy: Arcipelago Toscano); Mandery, Kraus, Voith, Wickl, Scheuchl, Schubert, and Warncke, 2003:69 (Germany: in catalog of wasps and bees of Bayern); Wickl, Voith, Mandery, Weber, Kraus, Bausenwein, and Blösch, 2003:195 (Germany: Bayern: no longer endangered); Wiśniowski *in* Dylewska and Wiśniowski, 2003:134 (Poland: Ojców National Park); Budrys, 2004:51 (Lithuania: Šalč: Baltoj Vokė at 54°28'N 25°08'E and Elektrėnai mun.: Paneriai at 54°48'N 24°56'E); Dollfuss, 2004a:106 (Romania: Braşov, Restia, Turda); Esser, Jakubzik, and Sonnenburg, 2004:18 (Germany: Nordrhein-Westfalen); Esser, Jakubzik, Sonnenburg, and Woydak, 2004:263 (Germany: in checklist of Sphecidae of Nordrhein-Westfalen); Haneda, Nosaka, Tano, Kurokawa, and Murota, 2004:30 (Japan: Gifu Prefecture); Klein and Lefebvre *in* Peeters, van Achterberg, et al., 2004:417 (in Wasp and Ant Fauna of Netherlands); Salzmänn-Wandeler and Rezbanyai-Reser, 2004:27 (central Switzerland); Shkuratov, 2004a:78 (Russia: Rostov Oblast': Migulinskaya), 2004b:167 (Russia: Rostov Oblast': Gosudarstvennyi Muzei-Zapovednik M.A. Sholokhova); Skibińska *in* Bogdanowicz, Chudzicka, Pilipiuk, and Skibińska, 2004:357 (in catalog of Polish Crabronidae); Stolle et al., 2004:372 (Germany: Sachsen-Anhalt: last collected in 1940); Suda, 2004:38 (Japan: Yamanashi Prefecture); van Achterberg and Peeters, 2004:32 (in

checklist of Sphecidae of Netherlands); Wiśniowski, 2004:39 and 58 (in checklist of Polish Sphecidae); Burger, 2005:35 (Germany: Thüringen); Edwards and Broad, 2005:66 (Great Britain: probably extinct, all records are more than 100 year old); Haneda, Nozaka, Tano, Kurokawa, and Murota, 2005:44 (Japan: Gifu Prefecture); Kofler, 2005:167 (Austria: Tirol: Brixen; Kärnten: Klagenfurt); Pagliano and Negrisol, 2005:435 (in Sphecidae Fauna of Italy); Riemann and Hohmann, 2005:564 (Germany: Niedersachsen: city of Bremen and adjacent area); Saure, 2005:18 (Germany: Berlin); Theunert, 2005a:18 (Germany: in checklist of Sphecidae of Niedersachsen and Bremen); Gayubo, González, de la Nuez, Asís, and Tormos, 2006:210 (Spain: Asturias: Pimiango; Cantabria: Ruesga; Vizcaya: Ibarraquelua); Hua, 2006:282 (in list of Chinese insects, geographic distribution); Nemkov, 2006b:167 (Russia: Primorskiy Kray: Kedrovaya Pad' Nature Reserve); Vepřek, 2006:511 (Czech Republic: Ko-kořínsko area); Archer, 2007e:79 (Great Britain: extinct or vagrant); Baghirov, 2007:93 (Russia: southwestern Si-beria); Bitsch, Dollfuss, Bouček, Schmidt, Schmid-Egger, Gayubo, Antropov, and Barbier, 2007:453 (first record- ed from Iberian Peninsula by Gayubo et al., 2006); Jacobs, 2007:55 (in key to Crabronidae of Germany); Józán, 2007:179 (Hungary: Zselic hills); Nemkov, 2007b:68 (Russia: Kuril Islands: Island of Kunashir); Saure, 2007:83 (Germany: in checklist of Aculeata of Brandenburg); Shorenko, 2007b:257 (Ukraine: Crimea: Feodosiya); Vago, 2007:174 (France: département du Nord); Vepřek and Straka, 2007:200 (in catalog of Sphecidae of Czech Repub- lic and Slovakia); Ljubomirov and Ban-Calefariu, 2008:204 (Romania: Maramureş District: Izvoarele Resort, 7 km downstream); Ljubomirov and Yildirim, 2008:169 (in catalog of Crabronidae of Turkey); Nemkov, 2008b:18 (in catalog of Crabronidae of Asiatic Russia); Theunert, 2008:75 (Germany: map of distribution in Niedersachsen and Bremen); Debuyser and Vago, 2009:3 (in list of Sphecidae *sensu lato* of northern France); U. Frommer, 2009a:29 (Germany: in checklist of Sphecidae of Hessen), 40 (Hessen: Gründau and Weilburg); Nemkov, 2009b:57 (in new catalog of Sphecidae and Crabronidae of Asiatic Russia); Ruchin, Antropov, and Shibayev, 2009:169 (Russia: Republic of Mordovia); Shorenko, 2009:368 (in list of Sphecidae *sensu lato* of Crimea); Esser, Fuhrmann, and Venne, 2010:38 (Germany: in checklist of aculeates of Nordrhein-Westfalen); J. Kim and Yang, 2010:144 (in checklist of Korean Pemphredoninae); Mokrousov, 2010a:63 (Russia: Kostroma and Nizhniy Nov- gorod Oblast's: no specific localities); Schmid-Egger, 2010a:18 (in red list of Aculeata of Germany: rare); Shoren- ko and Kononov, 2010:26 (Ukraine: Sumy Oblast': Mikhailovskaya Tselina Nature Reserve); van der Smitten, 2010a:350 (Germany: Schleswig-Holstein: locality records); Baghirov, 2011b:153 (Russia: Altayskiy Kray: Sav- vushka; Altay Republic: Chermal, Onguday, Ust'-Kan); Burger, 2011a:288 (Germany: in red list of Sphecidae *sen- su lato* of Thüringen); Gogala, 2011:9 (Slovenia); Józán, 2011:179 (in checklist of Sphecidae *sensu lato* of Hunga- ry); Rudoiskatel', 2011d:241 (Russia: central Ural Mountains); Theunert, 2011a:21 (Germany: in checklist of acu- leates of Niedersachsen including city of Bremen); Tischendorf, Frommer, Flügel et al., 2011:52 (Germany: Hes- sen: threatened with extinction); Ziska and Saure, 2011:109 (Germany: Berlin: Tegeler Fließ valley); Boillat, 2012:228 (Switzerland: in checklist of insects of Canton de Genève); Nemkov, 2012c:435 (in catalog of Crabroni- dae of Russian Far East); Saure, 2012b:230 (Germany: Berlin-Spandau: Spandauer Forst); Shlyakhtenok, 2012a:172 (Belorussia: collected in private plots); Akulov and Proshchalykin, 2013:112 (Russia: Siberia: Krasno- yarsk Kray); A. Scholz and Liebig, 2013:26 (Germany: Sachsen: in list of Sphecidae *sensu lato*); Shlyakhtenok, 2013:141 (in annotated catalog of aculeate wasps of Belorussia); Bitsch, 2014:409 (France: Ariège: Nescus; Isère: Allevard); U. Frommer, 2014:28 (Germany: Hessen: Lorch); Hellqvist, Abenius, and Norén, 2014:94 (in catalog of Ampulicidae, Sphecidae, and Crabronidae of Sweden, by provinces); J.-K. Kim, 2014:445 (in catalog of Spe- cidae *sensu lato* of Korean Peninsula); Pagliano, 2014:95 (specimens in M. Spinola collection, Torino, are *Psen ater*); Yildirim, Ljubomirov, and Lelej, 2014:9 (distribution in Turkey by biogeographic provinces); Koçak and Kemal, 2015:150 (in checklist of Hymenoptera of Turkey); P. Rosa and Pagliano, 2015:105 (Italy: Lombardia and Piemonte: Parco del Ticino); Shorenko, 2015:332 (in list of Sphecidae *sensu lato* of Crimea); Simon, Lorthiois, and Macé, 2015:54 (France: alluvial terraces in Seine-Maritime Department: Anneville-Ambourville); Else, Bol- ton, and Broad, 2016:45 (in checklist of Aculeata of Great Britain and Ireland: England); Stolle and Saure, 2016:925 (Germany: in list of Sphecidae *sensu lato* of Sachsen-Anhalt); Jansen, 2017:9 (Germany: Sachsen: Leip-

zig); Mokrousov, 2017e:251 (in catalog of Pemphredoninae of Russia); Shorenko, 2017:79 (in Crimea collected in July); Jacobs and Liebig, 2018:145 (Russia: Irkutsk Oblast': Bol'shoye Goloustnoye and Ust'-Ordynski steppe); Ma, Zhang, Ch. Li, Ji, and Q. Li, 2018:488 (China: Shanxi: Lishan National Nature Reserve); Shorenko, 2018:129 (Crimea, including localities, habitats, and number of specimens); Carminati, Mora, and Cretin, 2019:25 (France: in list of Sphecidae *sensu lato* of Franche-Comté); Olszewski and Kowalczyk, 2019:109 (northern Poland: Pomorze Gdańskie = Gdańsk Pomerania); Ruchin and Antropov, 2019a:13241 (Russia: Mordovia State Nature Reserve, occurrence needs confirmation); U. Frommer, 2020:159 (Germany: Hessen: Gießen); Kaplan and Yildirim, 2021:89 (in catalog of Crabronidae of Turkey); Olszewski, Wiśniowski, and Ljubomirov, 2021:99 (in commented list of Sphecidae *sensu lato* of Poland); Dollfuss, K. Schmidt, and Bitsch *in* Bitsch, Antropov, Bouček, Dollfuss, Fernández Gayubo, and K. Schmidt, 2022:175 (in revision of Sphecidae *sensu lato* of Europe); Kaplan and Yildirim, 2023:1691 (in checklist of Sphecidae *sensu lato* of Turkey); Medetov, Embergenov, Kholmatov, Elmurodova, Rakhimov, and Tajibaeva, 2024:419 (Uzbekistan: distribution); Deng, L. Ma, and Q. Li, 2025a:91, 94 (in key to *Psen* of China), 2025b:976, 979 (in updated key to *Psen* of China).

Sphex ater Fabricius, 1794:457, sex not stated (as *atra*, incorrect original termination). Lectotype: ♀, Italy: no specific locality (ZMUC), designated by van der Vecht, 1961a:27. Synonymized with *Psen ater* Olivier by Leclercq, 1974d:260. – Fabricius, 1796:155 (in Index to his Entomologia Systematica, 1794), 1798:244 (redescription), 1799:45 (in Index to his Supplementum, 1798); Panzer, 1799, Heft 72:7 (in revision of German insects, illustration of habitus); Turton, 1801:486 (redescription); Panzer, 1806:108 (in critical review of his earlier work); Peets, 1909-1911:68 (*Sphex atra* of Panzer = *Dahlbomia atra*). – **As *Mimesa atra***: Dahlbom, 1843:2 (new generic assignment, in revision of Sphecidae and Pompilidae), 1845:428 (in key to European *Mimesa*); Wesmael, 1852:279 (Belgium, as *atra* Vanderlinden); Taschenberg, 1858:78 (in key to Sphecidae of Germany, as *atra* Panzer), 1866:205 (in revision of Hymenoptera of Germany, as *atra* Panzer); A. Costa, 1867c:107 (in revision of Italian Sphecidae); Wierzejski, 1868:117 (Ukraine: Podole Region); A. Costa, 1871b:36 (in revision of Italian Sphecidae); Schlechtendal, 1872:37 (Germany: Sachsen: Zwickau); Dours, 1874:151 (in catalog of Hymenoptera of France); Thomson, 1874:184 (in revision of Hymenoptera of Scandinavia, as *atra* Panzer); Wierzejski, 1874:258 (Ukraine: Podole Region); Tournier, 1889:107 (Switzerland: Peney near Genève); E. Saunders, 1896:103 (in revision of British Aculeata); R. Perkins, 1916:231 (specimens in F. Smith collection); Pulkkinen, 1931:82 (in revision of Sphecidae of Finland, not yet found in Finland). – **As *Dahlbomia atra***: Wissmann, 1849:9 (new generic assignment, Germany: Kingdom of Hannover: Hannover, Lüneburg, Münden, Rosstrappe); Tischbein, 1850:7 (Germany: Rheinland-Pfalz: Herrstein in Fürstenthum Birkenfeld); Ruthe and Stein, 1857:312 (Germany: Berlin area); Schenck, 1857:211 (Germany: in revision of fossorial wasps of Nassau Region); Funk, 1859:60 (Germany: Bayern: Bamberg); Schenck, 1861:143 (Germany: Hessen: Weilburg); Brischke, 1862:97 (Germany: Preussen Province, now Poland: Pomorze Region); Dietrich, 1868:364 (Switzerland: Zurich Canton); von Aichinger, 1870:322 (Austria: Tirol; as *atra*); Kohl, 1880:140 (Austria: Tirol, and Italy: Trentino–Alto Adige); Friese, 1883:203 (Germany: Sachsen-Anhalt: Kösen, Weissenfels); Kohl, 1883e:660 (Switzerland); von Heyden, 1884:120 (Germany: Frankfurt am Main area); Sickmann, 1883:80 (Germany: Niedersachsen: Wellingholthausen); Brischke, 1888b:94 (Germany: Preussen Province, now Poland: Pomorze Region); Kohl, 1888b:726 (Austria: Tirol, now Italy: Alto Adige); Sickmann, 1893:97 (Germany: Niedersachsen: Iburg); Meunier, 1896:274 (Belgium: Bruxelles area); Rudow, 1996:329 (Germany: Brandenburg: no specific locality); Schmiedeknecht, 1907:250 (in key to Hymenoptera of Central Europe); Dietrich, 1911b:26 (Germany: Niederschlesien Province, now Poland: Dolny Śląsk Region); Graeffe, 1911:49 (Italy: Trieste area); Geyer, 1912:378 (structure of compound eyes); Rudow, 1912:64 (nesting in stems of *Carduus* and *Heracleum*); Schirmer, 1912:168 (Germany: Berlin area); Alfken, 1914:284 (NW Germany); Zilahi Kiss, 1915:80 (Hungary: Várkudu); Stöckert, 1919:42 (Germany: Franken); A. Wagner, 1920:36 (Germany: Lower Elbe region); Dubois, 1922:216 (in key to Belgian Sphecidae); Lauterborn, 1922:244 (Germany: Baden-Württemberg: Kaiserstuhl); Berland, 1925d:132 (in Sphecid Fauna of France); Schütze, 1925:114 (Germany: Lausitz Region: Löbau); Strohm, 1925:212 (Germany: Baden-Württemberg: Ihringen); Bouwman, 1926:280 (in list of Sphecidae of Nether-

lands); F. Werner, 1927:67 (Austria: Niederösterreich: River Kamp valley); Bouwman, 1928b:55 (in revision of Sphecidae of Netherlands); Schmiedeknecht, 1930:710 (in keys to Hymenoptera of North and Central Europe); K. Stroh, 1933:338 (Germany: Baden: Württemberg: Kaiserstuhl); Balles, 1934:23 (Germany: Baden-Württemberg: Achem, Hopfengarten, Mösbach, Ortenberg); Zavadil, Šustera, and Bat'a, 1937:220 (in catalog of Sphecidae of Czechoslovakia); van Lith, 1938:122 (Netherlands: Limburg: Aalbeek, Exaeten); A. Wagner, 1938a:124 (north-western Germany); Dovnar-Zapolskiy, 1940:304 (Russia: Kursk Oblast'); Knoerzer, 1941:937 (Germany: Bayern: Wasserburg); Balthasar, 1943:42 (Czech Republic: Moravia: Zlin area); Cavo, 1950:32 (France: Département du Nord); Caruel, 1951:100 (France: Marne Department); Vogrin, 1955:38 (Yugoslavia); Janvier, 1956a:195 (nesting habits, description of larva); Zirngiebl, 1957:185 (Germany: Rheinland-Pfalz: Landau). – **As *Psen ater***: Latreille, [1805]:310 (new generic assignment, junior secondary homonym of *Psen ater* (Olivier 1792), redescription); Stephens, 1829a:362 (in catalog of British insects), 1829b:33 (in checklist of British insects); Guérin-Ménéville, 1835:pl. 71, Fig. 7 (illustration of habitus); Shuckard, 1837a:225 (in revision of British Aculeata); Herrich-Schaeffer, 1840:292 (Germany: Bayern: Regensburg area); Dahlbom, 1842a:9 (in review of Scandinavian aculeates); Guérin-Ménéville, 1844:442 (explanations of his 1835 figure); Lepeletier de Saint Fargeau, 1845:40 (in revision of world Hymenoptera); F. Smith, 1851c:40 (Great Britain: Hawley Hants), 1853:65 (in checklist of British Hymenoptera), 1856:434 (in catalog of Hymenoptera in British Museum), 1858c:180 (in review of British Aculeata, redescription); Belke, 1866:512 (Ukraine: Zhytomyr Oblast': Radomyshl'); F. Smith, 1871b:19 (in catalog of British Aculeata); E. Saunders, 1880:263 (in revision of British Aculeata); Ed. André, 1888:181 (in revision of Sphecidae of Europe and Algeria), 13* (bibliographic references); Kohl, 1889:19 (should be placed in *Mimesa*), 1893a:40 (Austria: Niederösterreich, as *Psen atra* Panz); Acloque, 1897:82 (in Sphecid Fauna of France and Algeria, as *ater* Lepeletier de Saint Fargeau); de Cobelli, 1903:105 (Italy: Province of Trentino); Birula, 1912:532 (citation of Belke, 1866); Strand, 1921:33 (Germany: Bayern: Kulmbach); Coulon, 1925:113 (France: Evreux); Friese, 1926:165 (in key to Sphecidae of Central Europe, short morphological and biological characteristics, as *ater* Panzer); Bondroit, 1932:33 (Belgium: recorded from Bruxelles area by Wesmael); Gussakovskij, 1934b:80 (Japan: locality records); Yasumatsu and Narisada, 1935:73 (China: Liaodang: Dairen, now Dalian); Crèvecoeur and Maréchal, 1936:250 (in catalog of Belgian Hymenoptera); de Beaumont, 1937:42 (in revision of Palearctic Psenini); Gussakovskij, 1937:649 (in revision of Palearctic *Psen*); Richards, 1937b:105 (in checklist of British aculeates); Iwata, 1938b:22 (nesting habits); Redikortsev, 1938:144 (Russia: Mordovian State Nature Reserve, as *ater* Panzer); Paul, 1941:49 (Germany: Pommern: Bublitz and Rummelsburg, now Poland: Województwo Zachodniopomorskie: Bobolice and Miastko); Schneid, 1941:1052 (Germany: Bayern: Bamberg area, as *later*); Yasumatsu, 1942b:93 (Japan: first record from Hokkaido: Sounkyo); Giner Marí, 1943:49 (not recorded from Spain); Guiglia, 1944b:30 (Italy); Spooner, 1948:143 (in revision of British Psenini); Zavadil in Zavadil and Šnoflák, 1948:141 (in key to Sphecidae of Czechoslovakia); van Lith, 1949:144 (Netherlands: collecting localities; all specimens collected at the end of XIXth century); de Beaumont, 1951h:33 (Switzerland: Neuchâtel area); Nouvel and Ribaut, 1953:179 (France: Haute-Garonne: Luchon); Bischoff and Stadler, 1954:126 (Germany: Bayern: Romburg); de Beaumont, 1954e:92 (Italy); Kjellander, 1954b:247 (Sweden); Aerts, 1955:66 (Germany: Rheinland); Grandi, 1954:241 (Italy); Steiner, 1955:143 (France: Dordogne); Janvier, 1956b:203 (nests destroyed by rainy period); Bajári, 1957a:71 (in key to Hungarian Sphecidae); Bradley, 1957:49 (Lepeletier's specimens in Turin); Benno, 1958b:17 (in review of Dutch Sphecidae); Evans, 1959b:142 (larva's description by Janvier, 1956); Tsuneki, 1959g:50, 52 (in key to *Psen* of Japan and Korea), 62 (Japan; redescription); Wolf, 1959b:25 (Germany: Nassau); Hamann, 1960:196 (Austria: Niederösterreich: Mönchgraben at 48°13'N 14°21'E); Noskiewicz and Puławski, 1960:49 (in key to Polish Sphecidae); Lehrer and Scutaru, 1963:287 (Romania: Moldova: Baia in Suceava District, Mircești in Iași District); Tsuneki and Shimoyama, 1963:49 (Japan: Towada Prefecture); de Beaumont, 1964c:90 (in Sphecid Fauna of Switzerland); Plavil'shchikov, 1964:122 (Russia: Mordovian State Nature Reserve); Mingo Pérez, 1965:163 (in revision of Spanish Psenini); B. Klug, 1965:132 (Germany: Baden-Württemberg: Freiburg im Breisgau area); van Lith, 1965:17 (China: Manchuria: Harbin, bibliographic references); Benno, 1967:38 (in checklist of Sphecidae of Netherlands);

- de Beaumont, 1967a:339 (Turkey); Gauss, 1967:555 (Germany: Baden-Württemberg); J. Heinrich, 1967:76 (Germany: Bayern: Unterfranken District); Mingo Pérez, 1967:86 86 (in checklist of Iberian *Psenini*); Niedl and Deneš, 1967:80 (Czech Republic: Třeboň area); Scobiola-Palade, 1967b:44 (Romania); Tsuneki, 1967e:2 (China: Manchuria), 9 (China: Manchuria: Harbin); Haneda, 1968a:44 (Japan), 1968b:55 (Japan: Nagano Prefecture: Ina District); Okuno, 1968:32 (Japan); van Lith, 1968:100 (China: Manchuria: Harbin), 131 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); Hoop, 1971:84 (Germany: Schleswig-Holstein: Schmilau); Oehlke, 1970:726 (Democratic Germany); Schmidt, 1971b:39 (Germany: Rheinland-Pfalz: Mainzer Sand); Stritt, 1971a:104 (Baden-Württemberg: Germany: Karlsruhe); Balthasar, 1972:232 (in *Sphecid Fauna of Czechoslovakia*); Scobiola-Palade, 1972b:253 (Romania); Nambu, 1973a:151 (Japan: Saitama Prefecture); Suda, 1973:122 (Japan: Yamanashi Prefecture); Kofler, 1974:320 (Austria: Kärnten); Leclercq, 1974b:192 (locality records from western Europe); Nambu, 1975b:66 (Japan: Saitama Prefecture); Tsuneki, 1976d:298 (China: Heilungkiang: Kaolingtze, midway between Harbin and Pogranichnaya Station); Kolesnikov, 1977:319 (Russia: Bryansk Oblast'); Kazenas, 1978b:149 (in key to *Sphecidae* of Kazakhstan and Central Asia); Petit, 1978:86 (Belgium: Vance, previous Belgian capture is from 1940); Benedek, 1979:232 (Hungary: Bakony Hills); Donath, 1982:214 (Germany: Cottbus Bezirk); Tsuneki, 1982b:3 (Korea), 15 (known from Korea); Lefeber, 1985:87 (Netherlands: southern Limburg); Paik, 1985:198 (in list of *Sphecidae* of Korea); Piek and Spanjer, 1986:188 (in list of *Sphecidae* with known prey); Pádr *in* Šedivý, 1989a:168 (in checklist of Czechoslovakian *Sphecidae*); Pádr, 1990:76 (Czech Republic: Praha area); Gayubo, Bor-sato, and Osella, 1991:397 (Italy: Veneto); Delarze, 1992:68 (Switzerland: Valais: Les Follatères); Wieser and Kofler, 1992:57 (Austria: Klagenfurt: Botanical Garden); Wolf, 1993:14 (Germany: Bayern: Gersthofen), 2001a:172 (Germany: Bayern: Lech valley from Augsburg to Donau); Rudoiskatel', 2010:153 (Russia: central and southern Ural Mountains); Terayama and Gōukon, 2012:6, 7, 17 (in key to *Psenini* of Japan, in Japanese), 28 (in list of Japanese *Psenini*, here as *Psen ater* Olivier).
- Pelopoeus unicolor* Fabricius, 1804:204 (replacement name for *Sphecx ater* Fabricius, 1794, redescription); Dahlbom, 1845:XX (is a synonym of *Mimesa atra*); Blüthgen, 1931a:122 (is a synonym of *Dahlbomia atra*).
- Pelopoeus compressicornis* Fabricius, 1804:204, ♂. Holotype or syntypes: Germany: no specific locality (lost?, see van der Vecht, 1961a:27). Synonymized with *Psen ater* by Panzer, 1806:108. – **As *Psen compressicornis* Latreille: nec** Stephens, 1829a:361 (new generic assignment, in catalog of British insects), and 1829b:33 (in checklist of British insects) = *Psenulus pallipes* Panzer, 1798.
- Psen atratus* Jurine, 1807:137, ♀ (as *Atratum*, incorrect original capitalization and termination), junior secondary homonym of *Psen atratus* (Fabricius, 1804) Vander Linden, 1829:105, now in *Psenulus*. Holotype or syntypes: ♀, Europe: no specific locality, possibly Switzerland (MHNG). Synonymized with *Psen ater* Fabricius by de Beaumont, 1937:42.
- Psen serraticornis* Jurine, 1807:137 and pl. 8, Fig. 6, ♂. Holotype or syntypes: ♂, Europe: no specific locality, possibly Switzerland (MHNG). Synonymized with *Dahlbomia atra* by Frei-Gessner, Kohl, and Kriechbaumer, 1882:393, synonymy confirmed by de Beaumont, 1937:42.

9. *aureohirtus* Rohwer

- Psen aureohirtus* Rohwer, 1921a:322, ♀, ♂ (as *aureohirta*, incorrect original termination). Holotype: ♀, Philippines: Luzon: Mount Makiling (USNM). – van Lith, 1959:49 (in revision of Indo-Australian *Psen*), 65 (is a member of *aureohirtus* species group), 1962:113 (in checklist of Indoaustralian *Psenini*, as *aureohirtus aureohirtus*), 1965:56 (bibliographic reference, Philippines: Luzon: Mount Makiling); Baltazar, 1966:336 (in catalog of Hymenoptera of Philippines); van Lith, 1968:121 (Philippines: Luzon), 1968:132 (in list of East Asian, Indo-Australian, and South Pacific *Psen*, as *aureohirtus aureohirtus*); R. Bohart and Menke, 1976:166 (in checklist of world *Sphecidae*); van Lith, 1976b:84 (Philippines: Luzon); Tsuneki et al., 1992b:1 (Philippines: first record from Mindanao).

ssp. *rufopetiolatus* van Lith

Psen aureohirtus rufopetiolatus van Lith 1959:50, ♂. Holotype: ♂, Philippines: Negros: Mount Canlaon (AEI). – van Lith, 1962:113 (in checklist of Indoaustralian Psenini), 1965:56 (bibliographic reference); Baltazar, 1966:336 (in catalog of Hymenoptera of Philippines); van Lith, 1968:132 (in list of East Asian, Indo-Australian, and South Pacific Psen); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae).

10. *aurifrons* Tsuneki

Psen aurifrons Tsuneki, 1959g:63, ♀, ♂, junior secondary homonym of *Psen aurifrons* (Taschenberg, 1875) W. Fox, 1897:378, now in *Pseneo*. Holotype: ♀, Japan: Fukui Prefecture: Sabaé (originally K. Tsuneki coll., now Hyogo Mus.). – Tsuneki, 1959g:50, 53 (in key to *Psen* of Japan and Korea); Tsuneki and Shimoyama, 1963:49 (Japan: Towada Prefecture); van Lith, 1965:18 (bibliographic references); Tsuneki, 1966a:24 (Japan), 1967g:44 (Japan: Mont Hyonosen); Haneda, 1968a:44 (Japan); Nambu, 1968b:24 (Japan: Saitama Prefecture); van Lith, 1968:131 (in list of East Asian, Indo-Australian, and South Pacific Psen); Itami, 1969:49 (Japan: Niigata Prefecture); Tsuneki, 1969e:26 (Japan: specimens in Osaka Museum of Natural History), 1970b:10 (central Japan); Tano, 1971:81 (Japan: Shikoku: Mount Tsurugi); Yamada, 1971:36 (Japan: Aichi Prefecture); Nambu, 1973a:151 (Japan: Saitama Prefecture; as *auritrons*); Suda, 1973:122 (Japan: Yamanashi Prefecture); Tsuneki, 1974a:366 (Korea); Nambu, 1975b:66 (Japan: Saitama Prefecture); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae); Budrys, 1986:139 (in key to Palearctic Psen), 142 (in revision of *Psen* of Russian Far East); Tsuneki, 1991:200 (Korea); Budrys in Nemkov, Kazenas, Budrys, et Antropov, 1995:392 (in key to Sphecidae of Russian Far East); Hashimoto and Nakanishi, 1997:26 (holotype transferred to Hyogo Mus.); Tano, Kurokawa, Murota, and Nozaka, 2003:30 (Japan: Nagasaki Prefecture: Tsushima); Haneda, Nosaka, Tano, Kurokawa, and Murota, 2004:30 (Japan: Gifu Prefecture); Suda, 2004:38 (Japan: Yamanashi Prefecture); Haneda, Inoue, Nozaka, Tano, Kurokawa, and H. and T. Murota, 2005:64 (Japan: Fukui Prefecture: Mount Monju); Haneda, Nozaka, Tano, Kurokawa, and Murota, 2005:44 (Japan: Gifu Prefecture; Negoro, Haneda, and Tano, 2005:44 (Japan: Toyama Prefecture); Haneda, Nozaka, Tano, Kurokawa and Murota, 2006a:19 (Japan: Toyama Prefecture), 2006b:47 (Japan: Nagasaki Prefecture: Tsushima); Nagase, 2006a:54 (Japan: Kanagawa Prefecture: Mount Komagatake near Hakone); Nambu, 2006:246 (Japan: Tokyo: Imperial Palace garden); Nemkov, 2006b:167 (Russia: Primorskiy Kray: Kedrovaya Pad' Nature Reserve); Ohkusa, 2006a:24 (Japan: Honshu: Gifu Prefecture); L. Ma and Q. Li, 2007:264 (first record from China: Shandong: Taian at 37°7'N 117°95'E [sic]); Nemkov, 2007b:68 (Russia: Kuril Islands: Island of Kunashir), 2008b:18 (in catalog of Sphecidae and Crabronidae of Asiatic Russia); S. Takahashi and Haneda, 2008b:42 (Japan: Hokkaido: Sapporo); Nemkov, 2009b:58 (in new catalog of Sphecidae and Crabronidae of Asiatic Russia), 2009c:236 (Russia: Primorskiy Kray: Lazovsky Nature Reserve); J. Kim and Yang, 2010:145 (in checklist of Korean Pemphredoninae); Ohkusa and Tajima, 2010:11 (Japan: Island of Honshu: Shiga Prefecture); N. Yamamoto, 2011:11 (Japan: Kyūshū: mainland Nagasaki Prefecture); Nemkov, 2012c:435 (in catalog of Crabronidae of Russian Far East); Terayama and Gōukon, 2012:6, 7 (in key to Psenini of Japan, in Japanese), 29 (in list of Japanese Psenini); J.-K. Kim, 2014:445 (in catalog of Sphecidae *sensu lato* of Korean Peninsula); Ohkusa, 2014a:32 (Japan: city of Toyota: Sizen-Kansatsu-no-Mori); Mokrousov, 2017e:251 (in catalog of Pemphredoninae of Russia); Deng, L. Ma, and Q. Li, 2025a:91, 94 (in key to *Psen* of China), 2025b:975, 979 (in updated key to *Psen* of China).

As *Psen orientalis* Gussakovskij: Yasumatsu, 1942b:93 (redescription, Hokkaido). Corrected to *Psen aurifrons* by Tsuneki, 1959g:63.

Psen caocinnus Tsuneki, 1973n:113 (invalid: Article 59.4). Substitute name for *Psen aurifrons* Tsuneki, 1959, junior secondary homonym of *Psen aurifrons* (Taschenberg, 1875), now in *Pseneo*. – Tsuneki, 1982b:15 (known from Korea), 1982g:57 (known from the Ryukyu archipelago); Paik, 1985:198 (in list of Sphecidae of Korea); Takahashi 1993:3 (Japan: Island of Hachijo-Jima); Takahashi and Shiraishi, 1999:12 (Japan: Ehime Prefecture); Tano, 1994a:4 (holotype in K. Tsuneki collection); Yamane, Ikudome, and Terayama, 1999:489 (in Identification Guide

to Crabronidae of Nansei = Ryukyu Islands, Japan); Terayama and Gōukon, 2012:17 (discussion of the name, in Japanese), 29 (in list of Japanese Psenini, invalid name, as *caokinnus*).

11. *bakeri* Rohwer

Psen bakeri Rohwer, 1923b:601, ♂. Holotype: ♂, Philippines: Luzon: Mountain Province: Baguio (USNM). – van Lith, 1959:38 (in revision of Indo-Australian *Psen*), 1962:112 (in checklist of Indoaustralian Psenini), 1965:58 (bibliographic references); Baltazar, 1966:337 (in catalog of Hymenoptera of Philippines); van Lith, 1968:133 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae); Radović, 1985:64 (sting apparatus analyzed).

12. *barthi* Viereck

Psen barthi Viereck, 1907a:251, ♀. Holotype: ♀, USA: Wisconsin: Milwaukee (Public Mus. Milwaukee). – Barth, 1907b:251 (nesting habits); Krombein in Muesebeck, Krombein, and Townes, 1951:959 (in catalog of North American Hymenoptera); Evans, 1959b:142 (description of larva); Krombein, 1963f:274 (Maryland: Plummers Island near Washington, D.C.); van Lith, 1975a: (bibliographic references, locality records); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae); Krombein, 1979b:1598 (in catalog of North American Hymenoptera); Noonan, 1984:6 (holotype in Milwaukee Public Museum); Radović, 1985:64 (sting apparatus analyzed); Steiner, 1986:99 (references to papers on nesting habits); Ahlstrom, 1995:107 (in checklist of insects of North Carolina); Buck, 2004:24 (in checklist of Sphecidae of Ontario, Canada), 29 (distribution within Ontario), 37 (first record from Ontario: Ottawa, St. Lawrence Island National Park); Buck and Bennett, 2025:222 (in checklist of Sphecidae sensu lato of Canada, Alaska, and Greenland: Canada: Ontario, Quebec: no specific locality).

Mimesa myersiana Rohwer, 1909e:324, ♀, ♂. Syntypes: USA: Pennsylvania: Wetzel's Swamp near Harrisburg (USNM). Synonymized with *Psen barthi* by Krombein in Muesebeck, Krombein, and Townes, 1951:959. – **As *Psen myersianus***: Rohwer, 1916b:658, 659 (new generic assignment, in catalog of Hymenoptera of Connecticut); Rohwer in Viereck, 1925:658 (in key to Sphecidae of Connecticut); Malloch, 1933:15 (in revision of North American Psenini, as *myersiana*); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae).

13. *betremi* van Lith

Psen betremi van Lith, 1959:44, ♀, ♂. Holotype: ♀, Indonesia: East Java: Res. Semarang: environs of Kopeng (RMNH). – van Lith, 1959:67 (prey: *Coelidia* sp., a jassid), 1962:113 (in checklist of Indoaustralian Psenini), 1965:58 (bibliographic reference, diagnostic character), 1968:133 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae).

14. *bettoh* Tsuneki

Psen seminitidus bettoh Tsuneki, 1977k:368, ♀, ♂. Holotype: ♀, Japan: Nikengoya in S Japan Alps (originally K. Tsuneki coll., now Hyogo Mus.). – Tsuneki, 1979d:9 (Japan); Budrys, 1986:145 (synonymized with *Psen seminitidus*); Hashimoto and Nakanishi, 1997:235 (holotype transferred to Hyogo Mus.). – **As *Psen bettoh***: Budrys, 1988:108 (full species status, diagnostic characters); Tano, 1994a:4 (holotype in K. Tsuneki collection); Budrys in Nemkov, Kazenas, Budrys, et Antropov, 1995:394 (in key to Sphecidae of Russian Far East); Budrys, 2000:64 (synonymy, locality records), 67 (diagnostic characters); Suda, 2004:39 (Japan: Yamanashi Prefecture); Haneda, Nozaka, Tano, Kurokawa, and Murota, 2005:44 (Japan: Gifu Prefecture); Kinota, Haneda, and Tano, 2005:29 (Japan: Hokkaido); Negoro, Haneda, and Tano, 2005:44 (Japan: Toyama Prefecture, as *bethoh*); Nemkov, 2007b:68 (Russia: Kuril Islands: Island of Kunashir), 2008b:18 and 2009b:58 (in new catalog of Sphecidae and Crabronidae of Asiatic Russia), 2011:95 (known only from Kuril Islands and Japan), 2012c:436 (in catalog of Crabronidae of Russian Far East); Terayama and Gōukon, 2012:6, 8, 19 (in key to Psenini of Japan, in Japanese), 29 (in list of Japanese Psenini); Mokrousov, 2017e:251 (in catalog of Pemphredoninae of Russia).

As *Psen hakusanus* Tsuneki, 1959g:72, ♀ only, corrected to *Psen bettoh* by Budrys, 2000:64

ssp. *attenuatus* Tsuneki

Psen seminitidus attenuatus Tsuneki, 1977k:370, ♀. Holotype: ♀, Taiwan: Nantou Prefecture: Tsuifeng, ca 2,500 m alt. (originally K. Tsuneki coll., now USNM). – Nuhn and Menke, 1994:25 (holotype transferred to USNM). – **As *Psen bettoh attenuatus***: Budrys, 2000:64 (new subspecific combination); Hua, 2006:282 (in list of Chinese insects, geographic distribution); Deng, L. Ma, and Q. Li, 2025a:92, 93 (in key to *Psen* of China, as *attenuatus* on p. 93), 2025b:977, 978 (in updated key to *Psen* of China).

As *Psen seminitidus*: van Lith, 1968:119 (review of records) and 1976b:84 (Taiwan), corrected to *Psen bettoh attenuatus* by Budrys, 2000:65.

15. *bishopi* van Lith

Psen bishopi van Lith, 1968:116, ♀. Holotype: ♀, Solomon Islands: Kolombangara: Collifer's Camp (Bishop Mus.). – van Lith, 1968:132 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae).

16. *bnun* Tsuneki

Psen bnun Tsuneki, 1971j:2, ♂. Holotype: ♂, Taiwan: Chiai Prefecture: Mount Ali (originally K. Tsuneki coll., now USNM). – R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae); Tsuneki, 1977j:277 (in key to related species); Nuhn and Menke, 1994:25 (holotype transferred to USNM); Porter, Stange, and Wang, 1999:6 (in checklist of Sphecidae of Taiwan); Hua, 2006:282 (in list of Chinese insects, geographic distribution); Ma, Zhang, Ch. Li, Ji, and Q. Li, 2018:488 (China: Shanxi: Lishan National Nature Reserve); Deng, L. Ma, and Q. Li, 2025a:92, 95 (in key to *Psen* of China), 2025b:976, 979 (in updated key to *Psen* of China).

17. *boninensis* Nagase

Psen boninensis Nagase, 2000:51, ♂. Holotype: ♂, Japan: Ogasawara (= Bonin) Islands: Island of Chichijima: Kitafukurozawa (Nat. Mus. Sci. Tokyo). – Nagase, 2005:25 (second specimen recorded); Takahashi, 2010:18 (Japan: in list of Hymenoptera of Ogasawara = Bonin islands); Terayama and Gōukon, 2012:7, 19 (in key to *Psenini* of Japan, in Japanese), 29 (in list of Japanese *Psenini*).

18. *brinchangensis* van Lith

Psen brinchangensis van Lith, 1965:60, ♀. Holotype: ♀, Malaysia: Gunong Brinchang (originally H.T. Pagden coll., now BMNH). – van Lith, 1968:133 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae); Deng, L. Ma, and Q. Li, 2025b:974, 978 (in updated key to *Psen* of China), 994 (first record from China: Yunnan Province: Xishuangbanna Autonomous Prefecture; description of ♂).

19. *bryani* Perkins and Cheesman

Psen bryani Perkins and Cheesman, 1928:28, ♀, ♂. Holotype: ♀, American Samoa: Island of Tutuila: Pago-Pago (BMNH). – Perkins and Cheesman, 1928:6 (listed from Samoa); van Lith, 1968:116 (diagnostic characters, Samoa), 132 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae); van Lith, 1976b:83 (Samoa); Kami and Miller, 1998:57 (in checklist of Samoan insects).

20. *carbonarius* (F. Smith)

Mimesa carbonaria F. Smith, 1865a:86, ♂. Holotype or syntypes: ♂, Indonesia: Moluccas Island: Island of Morty, now Morotai (OXUM). – Dalla Torre, 1897:352 (in catalog of world Hymenoptera). – **As *Psen carbonarius***: van Lith, 1959:27 (new generic assignment, in revision of Indo-Australian *Psen*), 1962:112 (in checklist of Indoaustralian *Psenini*), 1965:57 (relationships to *Psen aureohirtus*, available material), 1968:132 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae).

21. *cheesmanae* Krombein

Psen cheesmanae Krombein, 1949a:364, ♂. Holotype: ♂, New Hebrides, now Vanuatu: Espiritu Santo (BMNH). – van Lith, 1968:116 (description of ♀), 132 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae); Villemant, 2011:134 (not collected during the expedition to Espiritu Santo of 2006).

22. *congolus* Leclercq

Psen congolus Leclercq, 1961a:15, ♀, ♂. Holotype: ♀, Zaire: Upemba National Park: Lusinga (MRAC). – van Lith, 1974a:53 (taxonomically important characters), 97 (member of subgenus *Psen*), 98 (in list of Afrotropical *Psenini*); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae).

23. *coriaceus* van Lith

Psen coriaceus van Lith, 1959:34, ♀, ♂ (♀ = *Psen marjoriae*). Holotype: ♀, Philippines: Mindoro: Ilong: Mount Halcon (AEI). – van Lith, 1959:64 (is a member of *elisabethae* species group), 67 (prey: *Clovina lineata*, a cercopid), 1962:112 (in checklist of Indoaustralian *Psenini*), 1965:32 (Philippines: locality records); Baltazar, 1966:337 (in catalog of Hymenoptera of Philippines); van Lith, 1968:111 (diagnostic characters, variation), 131 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae); van Lith, 1976b:83 (Philippines: Luzon); Tsuneki, 1984b:49 (Philippines).

24. *curvipilosus* van Lith

Psen curvipilosus van Lith, 1959:20, ♀, ♂. Holotype: ♀, Indonesia: East Java: Mount Idjen: Kali Sengon (RMNH). – van Lith, 1959:64 (is a member of *curvipilosus* species group), 67 (prey: *Considia* sp., a cercopid), 1962:112 (in checklist of Indoaustralian *Psenini*), 1965:21 (bibliographic reference), 1968:131 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae).

25. *dzimm* Tsuneki

Psen dzimm Tsuneki, 1959g:68, ♀, ♂. Holotype: ♂, Japan: Tochhigi Prefecture: Nikko (originally K. Tsuneki coll., now Hyogo Mus.). – Tsuneki, 1959g:50, 52 (in key to *Psen* of Japan and Korea); Iwata, 1960:210 (number of ovarioles and oocytes, egg size); Tsuneki and Shimoyama, 1963:49 (Japan: Towada Prefecture); Tsuneki, 1964d:13 (Japan: Island of Tsushima); van Lith, 1965:20 (bibliographic reference); Tsuneki, 1965h:42 (prey: *Ricania japonica* Melichar, Homoptera); Haneda, 1968a:44 (Japan); Nambu, 1968b:24 (Japan: Saitama Prefecture); van Lith, 1968:131 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); Itami, 1969:49 (Japan: Niigata Prefecture); Tsuneki, 1970b:10 (central Japan); Haneda, 1971a:19 (Japan: Fukui Prefecture); Suda, 1973:122 (Japan: Yamanashi Prefecture); Nambu, 1975b:66 (Japan: Saitama Prefecture); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae); Budrys, 1986:139 (in key to Palearctic *Psen*); Tano, 1994a:4 (holotype in K. Tsuneki collection); Budrys in Nemkov, Kazenas, Budrys, et Antropov, 1995:392 (in key to Sphecidae of Russian Far East); Hashimoto and Nakanishi, 1997:26 (holotype transferred to Hyogo Mus.); Haneda, 2003:4 (Japan: Nagasaki Prefecture: Tsushima); Haneda and Inoue, 2003:50 (Japan: Fukui Prefecture: Katsumi in City of Obama); Tano, Kurokawa, Murota, and Nozaka, 2003:30 (Japan: Nagasaki Prefecture: Tsushima); Ohl and Linde, 2003:149 (number of ovarioles); Haneda, Nosaka, Tano, Kurokawa, and Murota, 2004:30 (Japan: Gifu Prefecture); Suda, 2004:38 (Japan: Yamanashi Prefecture); Haneda, Nozaka, Tano, Kurokawa, and Murota, 2005:44 (Japan: Gifu Prefecture); Negoro, Haneda, and Tano, 2005:44 (Japan: Toyama Prefecture); Haneda, Nozaka, Tano, Kurokawa and Murota, 2006a:19 (Japan: Toyama Prefecture), 2006b:47 (Japan: Nagasaki Prefecture: Tsushima); Nagase, 2006a:54 (Japan: Kanagawa Prefecture: Mount Komagatake near Hakone); Nambu, 2006:246 (Japan: Tokyo: Imperial Palace garden); Ohkusa and Tajima, 2010:11 (Japan: Island of Honshu: Shiga Prefecture); N. Yamamoto, 2011:12 (Japan: Kyūshyū: mainland Nagasaki Prefecture); Terayama and Gōkon, 2012:5, 17 (in key to *Psenini* of Japan, in Japanese), 29 (in list of Japanese *Psenini*).

26. *elisabethae* van Lith

Psen elisabethae van Lith, 1959:31, ♀, ♂. Holotype: ♀, Indonesia: West Java: Mount Patuha: Rantjabali (RMNH). Paratypes: Sumatra, India. – van Lith, 1959:64 (is a member of *elisabethae* species group), 1962:112 (in checklist of Indoaustralian Psenini), 1965:31 (bibliographic reference, as *elisabethae elisabethae*), 1968:106 (Vietnam), 131 (in list of East Asian, Indo-Australian, and South Pacific *Psen*, as *elisabethae elisabethae*); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae); van Lith, 1976b:82 (Java, Sumatra, as *elisabethae elisabethae*); Pham, Kumar and Danilov, 2015:1594 (in list of Sphecidae *sensu lato* of Vietnam, as *elisabethae elisabethae*).

ssp. auricomus van Lith

Psen elisabethae auricomus van Lith, 1965:31, ♀, ♂. Holotype: ♀, Malaysia: Kuala Lumpur gardens (BMNH). – van Lith, 1968:107 (addition to original description), 131 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae).

ssp. bougainvillensis van Lith

Psen elisabethae bougainvillensis van Lith, 1976b:83, ♂. Holotype: ♂, Solomon Islands: Bougainville: Kukugai Village (Bishop Mus.).

ssp. madradiensis van Lith

Psen auricomus madradiensis van Lith, 1968:107, ♀, ♂. Holotype: ♂, India: Madras: Nilgiri Hills (OXUM). – van Lith, 1968:131 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae); van Lith, 1976b:82 (first record from Laos: Vientiane Province: Ban Van Eue), 1978b:3 (first record from Sri Lanka).

ssp. umboiensis van Lith

Psen elisabethae umboiensis van Lith, 1976b:83, ♂. Holotype: ♂, Papua New Guinea: Island of Umboi: about 8 km WNW Lab Lab (Bishop Mus.).

27. *emarginatus* van Lith

Psen emarginatus van Lith, 1959:43, ♀, ♂. Holotype: ♀, Indonesia: Central Java: Res. Kedu: Mount Telamojo (RMNH). – van Lith, 1959:67 (prey: *Hemispermus* sp., a fulgorid), 1962:112 (in checklist of Indoaustralian Psenini), 1965:20 (bibliographic reference), 1968:101 (British Borneo, now Malaysia: Sabah: Mount Kinabalu), 131 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae); van Lith, 1976b:80 (Borneo: Sabah: Mount Kinabalu).

28. *erythrocnemus* van Lith

Psen erythrocnemus van Lith, 1975a:13, ♀, ♂. Holotype: ♀, Brazil: Minas Gerais: Santa Bárbara in Serra de Caraca (AEI). – Amarante, 2002:55 (in catalog of Neotropical Crabronidae).

29. *erythropoda* Rohwer

Psen erythropoda Rohwer, 1910c:102, ♀. Holotype: ♀, USA: Virginia: Great Falls (USNM). – Malloch, 1933:14 (in revision of North American Psenini); Krombein, 1939:140 (New York State); Krombein in Muesebeck, Krombein, and Townes, 1951:959 (in catalog of North American Hymenoptera); Krombein, 1958a:52 (USA: West Virginia: Lost River State Park), 1963f:274 (Maryland: Plummers Island near Washington, D.C.); van Lith, 1975a:5 (locality records); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae); Krombein, 1979b:1599 (in catalog of North American Hymenoptera); Finnamore, 1982:59 (in Sphecidae Fauna of Southern Quebec, as *erythropus*); Buck, 2004:24 (Canada: in checklist of Sphecidae of Ontario); Giles and Ascher, 2006:231 (New York: Black Rock Forest Preserve); Buck and Bennett, 2025:222 (in checklist of Sphecidae *sensu lato* of Canada, Alaska, and Greenland: Canada: Ontario, Quebec: no specific locality).

30. *eurypygus* van Lith

Psen eurypygus van Lith, 1965:61, ♀. Holotype: ♀, India: Himachal Pradesh: Dalhousie (BMNH). – van Lith, 1968:133 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae).

31. *foveicornis* Tsuneki

Psen foveicornis Tsuneki, 1982e:21, ♂. Holotype: ♂, Taiwan: Chiai Prefecture: Mount Ali (originally K. Tsuneki coll., now Hyogo Mus.). – Tano, 1995:43 (holotype in K. Tsuneki collection); Hashimoto and Nakanishi, 1997:26 (holotype transferred to Hyogo Mus.); Hua, 2006:282 (in list of Chinese insects, geographic distribution); Deng, L. Ma, and Q. Li, 2025a:94 (in key to *Psen* of China), 2025b:979 (in updated key to *Psen* of China).

32. *foveolatus* Budrys

Psen foveolatus Budrys, 1986:144, ♂. Holotype: ♂, Russia: Primorskiy Kray: Ussuri Reserve (ZIN). – Budrys, 1986:141 (in key to Palearctic *Psen*), 1988:106 (description of ♀); Budrys in Nemkov, Kazenas, Budrys, et Antropov, 1995:393 (in key to Sphecidae of Russian Far East); Nemkov, 2008b:18 (in catalog of Crabronidae of Asiatic Russia), 2009a:64 (is an endemic of Russian Far East), 2009b:58 (in new catalog of Sphecidae and Crabronidae of Asiatic Russia), 2012c:436 (in catalog of Crabronidae of Russian Far East); Mokrousov, 2017e:251 (in catalog of Pemphredoninae of Russia).

33. *fronistriatus* Deng, L. Ma, and Q. Li

Psen fronistriatus Deng, L. Ma, and Q. Li, 2025a:96, ♀, ♂. Holotype: ♀, China: Inner Mongolia: Helan Mountain at 38°57'45"N 105°51'8"E (Yunnan Agricultural University, Kunming, China). Paratypes: China: Yunnan and Shaanxi Provinces. – Deng, L. Ma, and Q. Li, 2025a:93 (in key to *Psen* of China), 2025b:977 (in updated key to *Psen* of China).

34. *fuscinervis* (Cameron)

Caenopsen fuscinervis Cameron, 1899:55, ♀. Holotype or syntypes: ♀, India: Assam: Khasia Hills, now Meghalaya: Khasi Hills (OXUM). – Ramakrishna Aiyar, 1916:556 (in catalog of Indian aculeates described after Bingham, 1897). – As *Psen fuscinervis*: van Lith, 1959:57 (new generic assignment, redescription), 65 (is a member of *fuscinervis* species group), 1965:46 (redescription, type in OXUM), 1968:132 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae); Jonathan, Ray, and Kundu, 2000:187 (India: previously recorded from Meghalaya: East Khasi Hills); Deng, L. Ma, and Q. Li, 2025a:91, 95 (in key to *Psen* of China), 2025b:975, 980 (in updated key to *Psen* of China).

? *Psen nigrinervis* Cameron, 1902:63, ♀. Holotype or syntypes: ♀, India: Assam: Khasia Hills, now Meghalaya: Khasi Hills (OXUM). Tentatively synonymized with *Psen fuscinervis* by van Lith, 1965:46. – Ramakrishna Aiyar, 1916:555 (in catalog of Indian aculeates described after Bingham, 1897); van Lith, 1959:58 (discussion of identity).

35. *hanedanus* Terayama and Murota

Psen hanedanus Terayama and Murota, 2016:5, ♀, ♂. Holotype: ♀, Japan: Amami Oshima Island: Santaro pass (National Institute for Agro-Environmental Sciences, Tsukuba, Japan).

As *Psen hirashimai*?: Haneda, Nozaka, Tano, Kurokawa, Murota, and Murota, 2007:53 (Japan: Amami Oshima Islands), corrected to *Psen hanedanus* by Terayama and Murota, 2016:5.

As *Psen* sp. A-3: Murota and Kurokawa, 2009:12 (Japan: Amami Oshima Islands), corrected to *Psen hanedanus* by Terayama and Murota, 2016:5.

36. *heinrichi* van Lith

Psen heinrichi van Lith, 1968:109, ♂. Holotype: ♂, Indonesia: Sulawesi: Bonthain: Wawa Karaeng (ZMHU). – van Lith, 1968:131 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae).

37. *hirashimai* Tsuneki

Psen hirashimai Tsuneki, 1966c:7, ♂. Holotype: ♂, Ryukyu Islands: Amami-Oshima Islands: Yuwan (Kyushu Univ.). – Tsuneki, 1968d:56 (Ryukyu Islands); van Lith, 1968:132 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae); Tsuneki, 1982g:57 (known from the Ryukyu archipelago); Yamane, Ikudome, and Terayama, 1999:490 (in Identification Guide to Crabronidae of Nansei = Ryukyu Islands, Japan); Haneda, Nozaka, Tano, Kurokawa, Murota, and Murota, 2007:53 (Japan: Kagoshima Prefecture: Amami Oshima Islands, as *hirasimai*); Terayama and Gōukon, 2012:8, 19 (in key to *Psenini* of Japan, in Japanese), 29 (in list of Japanese *Psenini*).

38. *inflatus* van Lith

Psen inflatus van Lith, 1968:129, ♀, as questionable member of subgenus *Mimesa*. Holotype: ♀: Indonesia: Irian Barat (= New Guinea): Mist Camp (RMNH). – van Lith, 1968:133 (in list of East Asian, Indo-Australian, and South Pacific *Psen*), 1976b:85 (Papua New Guinea: Morobe Province: Wau, description of ♂). – **As *Mimesa inflata*:** R. Bohart and Menke, 1976:162 (new generic assignment, in checklist of world Sphecidae).

39. *irwini* (Bohart and Grissell)

Pseno irwini Bohart and Grissell, 1969:221, ♀. Holotype: ♀, El Salvador: Quezaltepeque (UCD). – R. Bohart and Menke, 1976:165 (in checklist of world Sphecidae); Finnermore, 1987:1092 (likely to belong in *Psen*). – **As *Psen irwini*:** van Lith, 1975a:7 (new generic assignment; Mexico, Honduras; additional description); Amarante, 2002:55 (in catalog of Neotropical Crabronidae); Ruíz Cancino, Coronado Blanco, Varela Fuente, and Horta Vega, 2002:667 (in checklist of Mexican Sphecidae); Amarante, 2005a:12 (correction to his 2002 catalog).

40. *kalilicus* Tsuneki

Psen kalilicus Tsuneki, 1982a:3, ♂. Holotype: ♂, Bismarck Archipelago: New Ireland: Danu, Kalili Bay (ZMUC).

41. *koreanus* Tsuneki

Psen koreanus Tsuneki, 1959g:73, ♀. Holotype: ♀, Korea: Keijo (originally K. Tsuneki coll., now USNM). – Tsuneki, 1959g:50 (in key to *Psen* of Japan and Korea); van Lith, 1965:41 (bibliographic reference), 1968:132 (in list of East Asian, Indo-Australian, and South Pacific *Psen*, as *koreanus koreanus*); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae); Tsuneki, 1982b:15 (known from Korea); Paik, 1985:198 (in list of Sphecidae of Korea); Budrys, 1986:142 (in key to Palearctic *Psen*); Budrys, 1988:108 (first record from Russia: Primorskiy Krai: 50 km east-southeast of Ussuriysk); Nuhn and Menke, 1994:26 (holotype transferred to USNM); Budrys in Nemkov, Kazenas, Budrys, et Antropov, 1995:393 (in key to Sphecidae of Russian Far East); Yamane, Ikudome, and Terayama, 1999:490 (in Identification Guide to Crabronidae of Nansei = Ryukyu Islands, Japan); Haneda, Nozaka, Tano, Kurokawa and Murota, 2006a:19 (Japan: Toyama Prefecture); Haneda, Nozaka, Tano, Kurokawa, Murota, and Murota, 2007:53 (Japan: Kagoshima Prefecture: Amami Oshima Islands); Nemkov, 2008b:18 and 2009b:58 (in new catalog of Sphecidae and Crabronidae of Asiatic Russia); J. Kim and Yang, 2010:145 (in checklist of Korean Pemphredoninae); Ohkusa and Tajima, 2010:12 (Japan: Island of Honshu: Shiga Prefecture); Nemkov, 2012c:436 (in catalog of Crabronidae of Russian Far East); Terayama and Gōukon, 2012:6, 8, 19 (in key to *Psenini* of Japan, in Japanese), 29 (in list of Japanese *Psenini*); J.-K. Kim, 2014:445 (in catalog of Sphecidae *sensu lato* of Korean Peninsula); Mokrousov, 2017e:251 (in catalog of Pemphredoninae of Russia).

Psen ohnonis Tsuneki, 1973a:9, ♂. Holotype: ♂, Japan: Fukui Prefecture: Ohno: Hotokebara (Y. Haneda coll.). Synonymized with *Psen koreanus* by Tsuneki, 1977k:367. – nec Tsuneki, 1973d:23 (= *Psen affinis atayal*); Nambu, 1973a:151 (Japan: Saitama Prefecture), 1975b:67 (Japan: Saitama Prefecture).

ssp. formosensis Tsuneki

Psen koreanus formosensis Tsuneki, 1965j:167, ♀. Holotype: ♀, Taiwan: Urai-Agyoku (originally K. Tsuneki coll., now USNM). – van Lith, 1968:132 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); Nuhn and Men-

ke, 1994:25 (holotype transferred to USNM); Hua, 2006:282 (in list of Chinese insects, geographic distribution); Deng, L. Ma, and Q. Li, 2025a:92, 95 (in key to *Psen* of China), 2025b:977, 980 (in updated key to *Psen* of China).

42. *krombeini* van Lith

Psen krombeini van Lith, 1965:52, ♀. Holotype: ♀, South India: Tamil Nadu: Kodaikanal in Palni Hills (USNM). – van Lith, 1968:120 (India: Madras: Anamalai Hills), 132 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae).

43. *kulingensis* van Lith

Psen kulingensis van Lith, 1965:41, ♀. Holotype: ♀, China: Jiangxi: Kuling (USNM). – van Lith, 1968:119 (Japan: Chuzenji), 132 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae); Hua, 2006:282 (in list of Chinese insects, geographic distribution); Deng, L. Ma, and Q. Li, 2025a:91, 95 (in key to *Psen* of China), 2025b:975, 980 (in updated key to *Psen* of China).

44. *lacuniventris* L. Ma and Q. Li

Psen lacuniventris L. Ma and Q. Li, 2007:261, ♀. Holotype: ♀, China: Zhejiang: Mount Tianmu at 30°23'N 119°72'E (Zhejiang University). – Deng, L. Ma, and Q. Li, 2025a:90 (in key to *Psen* of China), 2025b:974 (in updated key to *Psen* of China).

45. *leclercqi* van Lith

Psen leclercqi van Lith, 1974a:53, ♀. Holotype: ♀, Madagascar: no specific locality (FSAG). – van Lith, 1974a:96 (probable member of subgenus *Psen*), 98 (in list of Afrotropical *Psenini*); R. Bohart and Menke, 1976:629 (in checklist of world Sphecidae); Pulawski, 2003b:798 (in checklist of Malagasy Sphecidae); Madl, 2014a:995 (in catalog of Ampulicidae, Crabronidae, and Sphecidae of Madagascar, with synonymy and locality records).

46. *lieftincki* van Lith

Psen lieftincki van Lith, 1959:23, ♀, ♂. Holotype: ♀, Indonesia: Sumatra: Mount Tanggamus in sw. Lampond District: Gisting (RMNH). Paratype: West Malaysia. – van Lith, 1959:64 (is a member of *curvipilosus* species group), 1962:112 (in checklist of Indoaustralian *Psenini*), 1965:21 (bibliographic references, as *lieftincki lieftincki*); Tsuneki, 1967f:1 (Taiwan; as *lieftincki lieftincki*); van Lith, 1968:131 (in list of East Asian, Indo-Australian, and South Pacific *Psen*, as *lieftincki lieftincki*); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae); Deng, L. Ma, and Q. Li, 2025a:90, 93 (in key to *Psen* of China), 2025b:974, 978 (in updated key to *Psen* of China).

ssp. minor van Lith

As *Psen lieftincki* subsp.: van Lith, 1959:23, corrected to *Psen lieftincki minor* by van Lith, 1965:23.

Psen lieftincki minor van Lith, 1965:23, ♀, ♂. Holotype: ♂, Malaysia: Pahang: Bukit Fraser (originally H.T. Pagden coll., now BMNH). – van Lith, 1968:131 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae).

ssp. nigripennis Tsuneki

Psen lieftincki nigripennis Tsuneki, 1971j:1, ♀. Holotype: ♀, Taiwan: Nantou Prefecture: Pempuchi (originally K. Tsuneki coll., now?). – R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae); Porter, Stange, and Wang, 1999:6 (in checklist of Sphecidae of Taiwan).

47. *lobicornis* van Lith

Psen lobicornis van Lith, 1973b:129, ♂. Holotype: ♂, Nepal: Bhurumche near Kathmandu (CNC). – R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae); Sarazin, 1986:308 (holotype in CNC).

48. *marjoriae* van Lith

As *Psen coriaceus* van Lith, 1959:34 (♀ only), corrected to *Psen marjorie* by van Lith, 1968:111.

Psen marjoriae van Lith, 1968:111, ♀. Holotype: ♀, Philippines: Luzon: Mount Santo Tomas near Baguio (AEI). – van Lith, 1968:131 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae).

49. *matalensis* R. Turner

Psen matalensis R. Turner, 1912g:362, ♀, ♂. Syntypes: Sri Lanka: Matale (BMNH). – Ramakrishna Aiyar, 1916:556 (in catalog of Indian aculeates described after Bingham, 1897); van Lith, 1959:58 (comparison with *Psen refractus*), 1965:55 (redescription), 1968:132 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae, misspelled *metalensis*); van Lith, 1978b:3 (Sri Lanka, redescription).

50. *melanosoma* Rohwer

Psen melanosoma Rohwer, 1921a:322, ♂. Holotype: ♂, Philippines: Luzon: Mount Makiling (USNM). – van Lith, 1959:41 (original description copied, additional characters), 65 (is a member of *aureohirtus* species group), 1962:112 (in checklist of Indoaustralian Psenini), 1965:57 (bibliographic reference, Philippines: Mindanao); Baltazar, 1966:337 (in catalog of Hymenoptera of Philippines); van Lith, 1968:132 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae).

51. *metallicus* van Lith

Psen metallicus van Lith, 1975a:7, ♂. Holotype: ♂, Peru: Chanchamayo (USNM). – Amarante, 2002:55 (in catalog of Neotropical Crabronidae); Rasmussen and Asenjo, 2009:14 (in checklist of Crabronidae of Peru).

52. *miyagino* Tsuneki

Psen miyagino Tsuneki, 1983f:63, ♂. Holotype: ♂, Japan: Miyagi Prefecture: no specific locality (originally K. Tsuneki coll., now Hyogo Mus.). – Budrys, 1986:139 (in key to Palearctic *Psen*); Tano, 1994a:4 (holotype in K. Tsuneki collection); Hashimoto and Nakanishi, 1997:26 (holotype transferred to Hyogo Mus.); Haneda, Inoue, Nozaka, Tano, Kurokawa, and H. and T. Murota, 2005:64 (Japan: Fukui Prefecture: Mount Monju); Nemkov, 2008b:18 and 2009b:58 (in catalog of Sphecidae and Crabronidae of Asiatic Russia), 2012c:436 (in catalog of Crabronidae of Russian Far East); Terayama and Gōukon, 2012:6, 7, 18 (in key to Psenini of Japan, in Japanese), 29 (in list of Japanese Psenini); Mokrousov, 2017e:251 (in catalog of Pemphredoninae of Russia).

Psen exorientis Budrys, 1988:105, ♀. Holotype: ♀, Russia: Primorskiy Kray: Kedrovaya Pad' Nature Reserve (ZIN). Synonymized with *Psen miyagino* by Budrys in Nemkov, Kazenas, Budrys, and Antropov, 1995:392.

53. *monticola* (Packard)

Mimesa monticola Packard, 1867:407, ♂. Holotype or syntypes: ♂, USA: New Hampshire: Mount Washington (MCZ). – Cresson, 1887:283 (in catalog of North American Hymenoptera); Dalla Torre, 1897:354 (in catalog of world Hymenoptera); Ashmead, 1899d:225 (in checklist of North American Crabronidae). – **As *Psen monticola***: W. Fox, 1898:11 (new generic assignment, in revision of North American *Psen*, description of ♀); J. Smith, 1900:517 (in list of insects of New Jersey); Viereck, 1901b:342 (in checklist of North American Psenini); H. Smith, 1908b:388 (in revision of Nebraskan Sphecidae, as *monticolus*); Rohwer, 1916b:658 (in catalog of Hymenoptera of Connecticut); Mickel, 1918b:359 (in catalog of Nebraskan Sphecidae); Rohwer in Viereck, 1925:658 (in key to Sphecidae of Connecticut); J.Ch. Bradley, 1928:1013 (in catalog of New York Sphecidae); Malloch, 1933:14 (in revision of North American Psenini); Brimley, 1938:445 (North Carolina: Raleigh); Krombein in Muesebeck, Krombein, and Townes, 1951:959 (in catalog of North American Hymenoptera); Krombein, 1952a:94 (USA: Virginia: Westmoreland State Park), 1952b:178 (USA: West Virginia: Lost River State Park), 1954a:6 (West Virginia: Lost River State Park), 1958f:189 (in supplement to catalog of North American Hymenoptera: West Virginia), 1963f:274 (Maryland: Plummers Island near Washington, D.C.); Kurczewski and Kurczewski, 1963:146 (Pennsylvania: Presque Isle State Park); van Lith, 1975a:4 (bibliographic references, locality records); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae); Krombein, 1979b:1599 (in catalog of North American Hymenoptera);

Finnamore, 1982:60 (in Sphecidae Fauna of Southern Quebec); Ahlstrom, 1995:107 (in checklist of insects of North Carolina); Buck, 2004:24 (Canada: in checklist of Sphecidae of Ontario); Buck and Bennett, 2025:222 (in checklist of Sphecidae sensu lato of Canada, Alaska, and Greenland: Canada: Ontario, Quebec: no specific locality).

54. *montivagus* (Dalla Torre)

Mimesa monticola Cameron, 1891a:137, ♀, junior primary homonym of *Mimesa monticola* Packard, 1867. Holotype or syntypes: ♀, Mexico: Guerrero: Omilteme (BMNH). – Viereck, 1901b:342 (in checklist of North American Psenini).

Mimesa montivaga Dalla Torre, 1897:354. Substitute name for *Mimesa monticola* Cameron. – **As *Pseneo montivagus***: van Lith, 1975a:11 (new generic assignment, redescription of ♀); R. Bohart and Menke, 1976:165 (in checklist of world Sphecidae), 628 (should be transferred to *Psen*). – **As *Psen montivagus***: Amarante, 2002:55 (new generic assignment, in catalog of Neotropical Crabronidae); Ruíz Cancino, Coronado Blanco, Varela Fuente, and Horta Vega, 2002:667 (in checklist of Mexican Sphecidae).

Mimesa cameroni Ashmead, 1899d:225. Substitute name for *Mimesa monticola* Cameron, 1891. – Ashmead, 1899d:225 (in checklist of North American Crabronidae).

55. *nepalensis* van Lith

Psen nepalensis van Lith, 1968:103, ♀. Holotype: ♀, Nepal: Taplejung District: above Sangu (BMNH). – van Lith, 1968:131 (in list of East Asian, Indo-Australian, and South Pacific *Psen*), 1973b:124 (Nepal); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae); Dollfuss, 2004a:106 (Nepal: Godaveri at 27°35'N 85°23'E, description of ♂).

56. *nigriventris* van Lith

Psen nigriventris van Lith, 1965:38, ♀. Holotype: ♀, Philippines: Luzon: Mount San Tomas (Bureau of Plant Industry, Entomology Research Station, Manila). – van Lith, 1968:132 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae).

57. *nitidus* van Lith

Psen nitidus van Lith, 1959:28, ♀, ♂. Holotype: ♀, Indonesia: East Java: Malang (RMNH). – van Lith, 1962:112 (in checklist of Indoaustralian Psenini), 1965:30 (bibliographic reference), 1968:105 (India, northeastern Sumatra), 131 (in list of East Asian, Indo-Australian, and South Pacific *Psen*, as *nitidus nitidus*); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae); van Lith, 1976b:80 (Malaysia: Johore: Kr. Pulai; as *nitidus nitidus*), 1978b:2 (Sri Lanka); Budrys in Nemkov, Kazenas, Budrys, et Antropov, 1995:393 (in key to Sphecidae of Russian Far East); Terayama and Gōukon, 2012:6, 8, 18 (in key to Psenini of Japan, in Japanese); Barthélémy and Guénard, 2025:36 (China: Hong Kong); Deng, L. Ma, and Q. Li, 2025a:92, 95 (in key to *Psen* of China, as *nitidus* Tsuneki on p. 95), 2025b:976, 980 (in updated key to *Psen* of China).

ssp. binghami van Lith

Psen nitidus binghami van Lith, 1976b:82, ♂. Holotype: ♂, Sikkim: no specific locality (BMNH).

ssp. hikosanus Tsuneki

Psen nitidus hikosanus Tsuneki, 1977g:12, ♂. Holotype: ♂, Japan: Kyushu: Mount Hiko (originally K. Tsuneki coll., now Hyogo Mus.). – Budrys, 1986:141 (in key to Palearctic *Psen*); Tano, 1994a:4 (holotype in K. Tsuneki collection); Hashimoto and Nakanishi, 1997:27 (holotype transferred to Hyogo Mus.).

ssp. himalayensis van Lith

Psen nitidus himalayensis van Lith, 1973b:126, ♀. Holotype: ♀, Nepal: Adhabhar near Simra (CNC). – R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae); Sarazin, 1986:308 (holotype in CNC).

ssp. *sabahensis* van Lith

Psen nitidus sabahensis van Lith, 1976b:82, ♀. Holotype: ♀, Malaysia: Sabah (= Borneo): Mount Kinabalu (BMNH).

ssp. *takasago* Tsuneki

Psen nitidus takasago Tsuneki, 1967f:8, ♀, ♂. Holotype: ♀, Taiwan: Nantou Prefecture: Puli (originally K. Tsuneki coll., now USNM). – van Lith, 1968:106 (discussion of status; Taiwan: Taihorin), 131 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); Tsuneki, 1971j:1 (Taiwan); Murota, 1973b:117 (Taiwan); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae); van Lith, 1976b:82 (Taiwan); Tsuneki, 1977j:277 (Taiwan: Taihorinsho, Takasago; in key to related species); Nuhn and Menke, 1994:26 (holotype transferred to USNM); Porter, Stange, and Wang, 1999:6 (in checklist of Sphecidae of Taiwan); Hua, 2006:282 (in list of Chinese insects, geographic distribution).

58. *novahibernicus* van Lith

Psen novahibernicus van Lith, 1965:33, ♂. Holotype: ♂, Papua New Guinea: New Ireland: Schleinitz Mountains: Kandand in Lelet Plateau (Bishop Mus.). – van Lith, 1968:112 (description of ♀), 131 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae).

59. *opacus* van Lith

Psen opacus van Lith, 1959:46, ♀. Holotype: ♀, Philippines: Luzon: Mount Santo Tomas near Baguio (AEI). – van Lith, 1962:113 (in checklist of Indoaustralian Psenini), 1965:58 (bibliographic reference, diagnostic character); Baltazar, 1966:337 (in catalog of Hymenoptera of Philippines); van Lith, 1968:133 (in list of East Asian, Indo-Australian, and South Pacific *Psen*, as *opacus opacus*); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae); Yamane, Ikudome, and Terayama, 1999:490 (in Identification Guide to Crabronidae of Nansei = Ryukyu Islands, Japan); Terayama and Gōkon, 2012:5, 20 (in key to Psenini of Japan, in Japanese), 29 (in list of Japanese Psenini); Deng, L. Ma, and Q. Li, 2025a:91 (in key to *Psen* of China), 2025b:975 (in updated key to *Psen* of China).

ssp. *gressitti* Tsuneki

Psen opacus gressitti Tsuneki, 1966c:7, ♀. Holotype: ♀, Ryukyus Islands: Amami Oshima Islands: Yuwandake (Bishop Mus.). – van Lith, 1968:133 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae); Tsuneki, 1982g:57 (known from Ryukyu archipelago); Murota and Kurokawa, 2009:12 (Japan: Ryukyu Archipelago: Amami Oshima Islands).

60. *orientalis* Cameron

Psen orientalis Cameron, 1890b:269, ♀. Holotype or syntypes: ♀, India: Madras: no specific locality (OXUM). – Bingham, 1897:263 (redescription); Dalla Torre, 1897:349 (in catalog of world Hymenoptera); Paiva, 1907:15 (India: Uttar Pradesh: Mussoorie, Toglu between British Sikkim and Nepal); van Lith, 1959:59 (discussion of identity), 1965:42 (redescription), 57 (is a member of *orientalis* group), 1968:120 (India, additional description), 132 (in list of East Asiatic, Indo-Australian, and South Pacific *Psen*); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae); van Lith, 1976b:84 (Kashmir: Gulmarg); S. Gupta, 1995:85 (India: Uttar Pradesh), 1997:102 (India: Uttar Pradesh: Nanda Devi Biosphere Reserve), 2004:26 (India: Uttaranchal: Uttarkashi District).

Psen reticulatus Cameron, 1903c:289, ♀, ♂. Syntypes: India: Gujarat: Deesa, actually Himachal Pradesh: Simla, see van Lith, 1965:44 (BMNH). Synonymized with *Psen orientalis* by van Lith, 1965:42. – Ramakrishna Aiyar, 1916:555 (in catalog of Indian aculeates described after Bingham, 1897); van Lith, 1959:60 (redescription), 65 (is a member of *fuscinervis* species group).

61. *paranaensis* van Lith

Psen paranaensis van Lith, 1975a:11, ♀, ♂. Holotype: ♀, Brazil: Paraná: Ponta Grossa (BMNH). – Amarante, 2002:55 (in catalog of Neotropical Crabronidae).

62. *patellatus* Arnold

Psen patellatus Arnold, 1924:39, ♂. Holotype: ♂, Namibia: Onoolonga or Mafa (SAM). – Arnold, 1930:9 (in checklist of Afrotropical Sphecidae); Leclercq, 1961a:15 (in list of Afrotropical *Psen*); van Lith, 1974a:58 (supplementary description), 97 (subgeneric placement uncertain), 98 (in list of Afrotropical Psenini); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae).

63. *paulus* van Lith

Psen paulus van Lith, 1968:113, ♀, ♂. Holotype: ♀, Papua New Guinea: Morobe Province: Wau (Bishop Mus.). – van Lith, 1968:131 (in list of East Asian, Indo-Australian, and South Pacific *Psen*, as *paulus paulus*); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae); van Lith, 1976b:83 (New Guinea).

ssp. *baduriensis* van Lith

Psen paulus baduriensis van Lith, 1968:114, ♀. Holotype: ♀, Indonesia: Irian Barat (= New Guinea): Island of Japen: Mount Baduri (BMNH). – van Lith, 1968:132 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae).

ssp. *subtilis* van Lith

Psen paulus subtilis van Lith, 1968:114, ♂. Holotype: ♂, Solomon Islands: Kolombangara: Collifer's Camp (Bishop Mus.). – van Lith, 1968:132 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae).

64. *pilosus* van Lith

Psen pilosus van Lith, 1965:20, ♂. Holotype: ♂, Malaysia: Pahang: Fraser's Hill (BMNH). – van Lith, 1968:131 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae).

65. *politiventris* Rohwer

Psen politiventris Rohwer, 1921a:321, ♀. Holotype: ♀, Philippines: Luzon: Baguio (USNM). – van Lith, 1959:36 (in revision of Indo-Australian *Psen*), 65 (is a member of *fuscinervis* species group), 1962:112 (in checklist of Indoaustralian Psenini), 1965:48 (bibliographic reference, comparison with *Psen orientalis*); Baltazar, 1966:337 (in catalog of Hymenoptera of Philippines); van Lith, 1968:132 (in list of East Asian, Indo-Australian, and South Pacific *Psen*, as *politiventris politiventris*); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae); van Lith, 1976b:84 (Philippines, as *politiventris politiventris*).

ssp. *bellus* van Lith

Psen politiventris bellus van Lith, 1965:49, ♀. Holotype: ♀, Philippines: Mindanao: Bukidnon: Mount Katanglad (Bishop Mus.). – van Lith, 1968:132 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae).

ssp. *pahangensis* van Lith

Psen politiventris pahangensis van Lith, 1965:48, ♀. Holotype: ♀, Malaysia: Pahang: Ulu Menaum in Cameron Highlands (BMNH). – van Lith, 1968:132 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae).

66. *pulcher* (Cameron)

Mimesa pulchra Cameron, 1891:135, ♀. Holotype or syntypes: ♀, Mexico: Guerrero: Sierra de las Aguas Escondidas (BMNH). – Dalla Torre, 1897:354 (in catalog of world Hymenoptera); Ashmead, 1899d:225 (in checklist of North American Crabronidae); Viereck, 1901b:342 (in checklist of North American Psenini). – **As *Pseno pulcher***: R. Bohart in Bohart and Menke, 1976:165 (new generic assignment, in checklist of world Sphecidae); Amarante, 2002:55 (in catalog of Neotropical Crabronidae). – **As *Psen pulcher***: van Lith, 1975a:9

(new generic assignmenr, redescription); Ruíz Cancino, Coronado Blanco, Varela Fuente, and Horta Vega, 2002:667 (in checklist of Mexican Sphecidae).

67. *refractus* Nurse

Psen refractus Nurse, 1903b:11, ♀. Syntypes: India: Rajasthan: Mount Abu (BMNH). – Ramakrishna Aiyar, 1916:555 (in catalog of Indian aculeates described after Bingham, 1897); van Lith, 1959:59 (redescription), 1965:50 (redescription), 1968:121 (India, variation), 1968:132 (in list of East Asian, Indo-Australian, and South Pacific *Psen*, as *refractus refractus*); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae).

Psen refractus meridianus van Lith, 1965:51, ♀, ♂. Holotype: ♀, South India: Tamil Nadu: Kodaikanal in Palni Hills (USNM). Synonymized with *Psen refractus* by R. Bohart in R. Bohart and Menke, 1976:167. – van Lith, 1968:132 (in list of East Asian, Indo-Australian, and South Pacific *Psen*), 1976b:84 (India: Anamalai Hills).

68. *regalis* van Lith

Psen regalis van Lith, 1968:110, ♀. Holotype: ♀, Solomon Islands: Vella Lavella: Ulo crater (Bishop Mus.). – van Lith, 1968:131 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); R. Bohart and Menke, 1976:167 (in checklist of world Sphecidae).

69. *rhyssothoracicus* Deng and L. Ma

Psen rhyssothoracicus Deng and L. Ma in Deng, L. Ma, and Q. Li, 2025b:990, ♀. Holotype: ♀, China: Tibet: Shigatse: Yadong County at 27°37'7.18"N 88°55'49"E (Yunnan Agricultural University, Kunming, China). – Deng, L. Ma, and Q. Li, 2025b:976, 978 (in updated key to *Psen* of China).

70. *richardsi* Tsuneki

Psen richardsi Tsuneki, 1959g:71, ♀. Holotype: ♀, Japan: Tochigi Prefecture: Nikko (originally K. Tsuneki coll., now Hyogo Mus.). – Tsuneki, 1959g:49 (in key to *Psen* of Japan and Korea), 1964b:7 (description of ♂); van Lith, 1965:38 (bibliographic references, comparison with *Psen nigriventris*); Haneda, 1968a:44 (Japan, as *richardi*); van Lith, 1968:132 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); Itami, 1969:49 (Japan: Niigata Prefecture); R. Bohart and Menke, 1976:167 (in checklist of world Sphecidae); Budrys, 1986:141 (in key to Palearctic *Psen*); Tano, 1994a:4 (holotype in K. Tsuneki collection); Budrys in Nemkov, Kazenas, Budrys, et Antropov, 1995:393 (in key to Sphecidae of Russian Far East); Hashimoto and Nakanishi, 1997:27 (holotype transferred to Hyogo Mus.); Haneda, Nosaka, Tano, Kurokawa, and Murota, 2004:30 (Japan: Gifu Prefecture); Terayama and Gōukon, 2012:6, 8, 17 (in key to *Psen* of Japan, in Japanese), 29 (in list of Japanese *Psen*).

71. *rubicundus* van Lith

Psen rubicundus van Lith, 1959:37, ♀. Holotype: ♀, Indonesia: West Java: Mount Patuha: Rantjabali (RMNH). – van Lith, 1962:112 (in checklist of Indoaustralian *Psen*, as *rubicundus rubicundus*), 1965:37 (bibliographic reference), 1968:132 (in list of East Asian, Indo-Australian, and South Pacific *Psen*, as *rubicuncus rubicundus*); R. Bohart and Menke, 1976:167 (in checklist of world Sphecidae).

ssp. lawuensis van Lith

Psen rubicundus lawuensis van Lith, 1959:38, ♀. Holotype: ♀, Indonesia: East Java: Mount Lawu: Sarangan (RMNH). – van Lith, 1962:112 (in checklist of Indoaustralian *Psen*), 1965:37 (bibliographic reference), 1968:132 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); R. Bohart and Menke, 1976:167 (in checklist of world Sphecidae); Deng, L. Ma, and Q. Li, 2025a:91, 93 (in key to *Psen* of China, as *lawkensis*), 2025b:975 (in updated key to *Psen* of China, as *lawkensis*), 2025b:977 (in updated key to *Psen* of China, as *lawkensis*).

72. *ruficrus* van Lith

Psen ruficrus van Lith, 1965:62, ♂. Holotype: ♂, Papua New Guinea: Daulo Pass area (Bishop Mus.). – van Lith, 1968:122 (description of ♀), 133 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); R. Bohart and Menke, 1976:167 (in checklist of world Sphecidae); van Lith, 1976b:85 (New Guinea: 30 km E Goroka).

73. *rufiventris* Cameron

Psen rufiventris Cameron, 1890b:267, ♀. Lectotype: ♀, India: Madras: no specific locality (OXUM), designated by van Lith, 1965:35. – Bingham, 1897:264 (redescription); Dalla Torre, 1897:350 (in catalog of world Hymenoptera); van Lith, 1959:61 (discussion of identity), 1965:34 (redescription of ♀), 1968:132 (in list of East Asian, Indo-Australian, and South Pacific *Psen*), 1973b:126 (Nepal; India: Himachal Pradesh: Simla; description of ♂); R. Bohart and Menke, 1976:167 (in checklist of world Sphecidae).

74. *rufoannulatus* Cameron

Psen rufoannulatus Cameron, 1907d:90, ♀. Holotype or syntypes: ♀, India: Himachal Pradesh: Simla, actually Assam: Khasia, see van Lith, 1965:59 (BMNH). – Ramakrishna Aiyar, 1916:556 (in catalog of Indian aculeates described after Bingham, 1897); van Lith, 1959:61 (generic placement not certain), 1965:58 (original description copied, discussion of type locality), 1968:133 (in list of East Asian, Indo-Australian, and South Pacific *Psen*), 1973b:125 (Nepal; description of ♂); R. Bohart and Menke, 1976:167 (in checklist of world Sphecidae); van Lith, 1976b:80 (Nepal: Katmandu); Dollfuss, 2004a: 106 (China: Yunnan Province: Ninglang area at 27°19'N 100°55'E); Hua, 2006:282 (in list of Chinese insects, geographic distribution); Deng, L. Ma, and Q. Li, 2025a:90, 94 (in key to *Psen* of China), 2025b:974, 978 (in updated key to *Psen* of China).

75. *sauteri* van Lith

Psen sauteri van Lith, 1968:104, ♀. Holotype: ♀, Taiwan: Taihorin (ZMHU). – van Lith, 1968:131 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); R. Bohart and Menke, 1976:167 (in checklist of world Sphecidae); Porter, Stange, and Wang, 1999:6 (in checklist of Sphecidae of Taiwan); Hua, 2006:282 (in list of Chinese insects, geographic distribution); Deng, L. Ma, and Q. Li, 2025a:90 (in key to *Psen* of China).

76. *scabristriatus* Deng and L. Ma

Psen scabristriatus Deng and L. Ma in Deng, L. Ma, and Q. Li, 2025b:981, ♀, ♂. Holotype: ♀, China: Yunnan Province: Kunming City: Panlong District: Xiaohe Township at 25°11'42.84"N 102°50'09.43"E (Yunnan Agricultural University, Kunming, China). – Deng, L. Ma, and Q. Li, 2025b:976, 980 (in updated key to *Psen* of China).

77. *scabrosus* Deng, L. Ma, and Q. Li

Psen scabrosus Deng, L. Ma, and Q. Li, 2025a:100, ♀. Holotype: ♀, China: Guangdong: Ruyuan County: Nanling National Nature Reserve at 24°56'15"N, 113°0'40"E (Yunnan Agricultural University, Kunming, China). – Deng, L. Ma, and Q. Li, 2025a:92 (in key to *Psen* of China), 2025b:976 (in updated key to *Psen* of China).

78. *sedlaceki* van Lith

Psen sedlaceki van Lith, 1968:124, ♂. Holotype: Indonesia: Irian Barat (= New Guinea): Karimui (Bishop Mus.). – van Lith, 1968:133 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); R. Bohart and Menke, 1976:167 (in checklist of world Sphecidae); van Lith, 1976b:85 (Papua New Guinea: Morobe Province).

79. *seminitidus* van Lith

Mimesa kohli Gussakovskij, 1934a:7, ♀, junior secondary homonym of *Psen kohli* W. Fox, 1898. Holotype: ♀, China: Tibet: River Chok-Chyu, affluent of Mekong (ZIN). – Hua, 2006:281 (in list of Chinese insects, geographic distribution). – **As *Psen kohlii***: Gussakovskij, 1937:653 (new generic assignment, in revision of Palearctic *Psen*).

Psen seminitidus van Lith, 1965:40. Substitute name for *Psen kohli* (Gussakovskij, 1934). – van Lith, 1965:40 (redescription); Budrys, 1986:142 (in key to Palearctic *Psen*), 145 (in revision of *Psen* of Russian Far East); Nemkov, 1992b:244 (Russia: Far East: Khingan Nature Reserve); Budrys in Nemkov, Kazenas, Budrys, et Antropov, 1995:393 (in key to Sphecidae of Russian Far East); Budrys, 2000:65 (bibliographic references, locality records), 67 (diagnostic characters); Haneda, Nosaka, Tano, Kurokawa, and Murota, 2004:30 (Japan: Gifu Prefecture); Suda, 2004:39 (Japan: Yamanashi Prefecture); Haneda, Nozaka, Tano, Kurokawa, and Murota, 2005:44 (Japan: Gifu Prefecture); Kinota, Haneda, and Tano, 2005:29 (Japan: Hokkaido); Negoro, Haneda, and Tano, 2005:44 (Japan: To-

yama Prefecture); Nemkov, 2005a:144 (Russia: Island of Sakhalin); Haneda, Nozaka, Tano, Kurokawa and Murota, 2006a:19 (Japan: Toyama Prefecture); Nemkov, 2006c:247 (Russia: Island of Moneron S Sakhalin); Hua, 2006:282 (in list of Chinese insects, geographic distribution); Nemkov, 2007b:68 (Russia: Kuril Islands: Island of Kunashir), 2008b:18 and 2009b:58 (in new catalog of Sphecidae and Crabronidae of Asiatic Russia); J. Kim and Yang, 2010:145 (in checklist of Korean Pemphredoninae); Nemkov, 2012c:436 (in catalog of Crabronidae of Russian Far East); Terayama and Gōkon, 2012:7, 8, 19 (in key to Psenini of Japan, in Japanese), 29 (in list of Japanese Psenini); L. Ma, X. Li, Chen, and Q. Li, 2013:584 (China: Nei Mongol: Helan Mountains); J.-K. Kim, 2014:445 (in catalog of Sphecidae *sensu lato* of Korean Peninsula); Mokrousov, 2017e:251 (in catalog of Pemphredoninae of Russia); Deng, L. Ma, and Q. Li, 2025a:92, 93 (in key to *Psen* of China), 2025b:977, 978 (in updated key to *Psen* of China). – **As *Psen hakusanus seminitidus***: Tsuneki, 1966c:9 (new status, Taiwan; redescription), 1967f:2 (Taiwan); van Lith, 1968:119 (actually *Psen bettoh attenuatus*), 132 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); Tsuneki, 1972:5 (Taiwan); Haneda, 1972a:5 (Taiwan); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae); nec van Lith, 1976b:84 (= *Psen bettoh attenuatus*); Porter, Stange, and Wang, 1999:6 (in checklist of Sphecidae of Taiwan); Dollfuss, 2004a: 106 (China: Yunnan Province: Heishui 35 km north of Lijang at 27°13'N 100°19'E).

Psen alticola Tsuneki, 1977k:370, ♀, ♂, junior secondary homonym of *Mimesa alticola* Viereck, 1903, a species transferred to *Psen* by Tsuneki, 1978c:81. Holotype: ♂: Japan: Ishikawa Prefecture: Mount Haku (originally K. Tsuneki coll., now Hyogo Mus.). Synonymized with *Psen seminitidus* by Budrys, 1986:145. – Hashimoto and Nakanishi, 1997:26 (holotype transferred to Hyogo Mus.).

Psen takanensis Tsuneki, 1978c:81. Substitute name for *Psen alticola* Tsuneki, necessary only if *Mimumesa* (to which *Mimesa alticola* Viereck belongs) is not considered an independent genus. – Tsuneki, 1979d:10 (Japan), 1982b:3 (Korea), 15 (known from Korea); Paik, 1985:198 (in list of Sphecidae of Korea).

As *Psen affinis*: van Lith, 1965:44 (diagnostic characters), corrected to *Psen seminitidus* by Budrys, 2000:65.

As *Psen affinis grahami* van Lith, 1965:44, ♂ only, corrected to *Psen seminitidus* by Budrys, 2000:65.

80. *seriatispinosus* L. Ma and Q. Li

Psen seriatispinosus L. Ma and Q. Li, 2006:311, ♂. Holotype: ♂, China: Guizhou Province: Xishui County: Dabaitang (Zhejiang Univ.). – Deng, L. Ma, and Q. Li, 2025a:94 (in key to *Psen* of China), 2025b:979 (in updated key to *Psen* of China).

81. *shirozui* Tsuneki

Psen shirozui Tsuneki, 1966c:10, ♂. Holotype: ♂, Taiwan: Chiayi Prefecture: Fenchihu (Kyushu Univ., Fukuoka). – van Lith, 1968:105 (relationships to *Psen vechti*), 131 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); R. Bohart and Menke, 1976:167 (in checklist of world Sphecidae); Tsuneki, 1977j:277 (in key to related species), 1982e:20 (description of ♀, Taiwan); Porter, Stange, and Wang, 1999:6 (in checklist of Sphecidae of Taiwan); Hua, 2006:282 (in list of Chinese insects, geographic distribution); Deng, L. Ma, and Q. Li, 2025a:91, 94 (in key to *Psen* of China), 2025b:975, 979 (in updated key to *Psen* of China).

82. *shukuzanus* Tsuneki

Psen longicornis Tsuneki, 1967f:5, ♂, junior primary homonym of *Psen longicornis* W. Fox, 1898. Holotype: ♂, Taiwan: Chiayi Prefecture: Mount Ali, now Alishan (originally K. Tsuneki coll., now USNM). – van Lith, 1968:132 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); Tsuneki, 1971j:1 (Taiwan); Nuhn and Menke, 1994:26 (holotype transferred to USNM); Deng, L. Ma, and Q. Li, 2025b:980 (in updated key to *Psen* of China).

Psen shukuzanus Tsuneki, 1972c:5, substitute name for *Psen longicornis* Tsuneki, 1967. – R. Bohart and Menke, 1976:167 (in checklist of world Sphecidae). – Porter, Stange, and Wang, 1999:6 (in checklist of Sphecidae of Taiwan); Hua, 2006:282 (in list of Chinese insects, geographic distribution); Deng, L. Ma, and Q. Li, 2025a:95 (in key to *Psen* of China), 2025b:980 (in updated key to *Psen* of China).

83. *silvaticus* Arnold

Psen silvaticus Arnold, 1924:38, ♀. Holotype: ♀, Zimbabwe: Mount Chinzewa in Vumba Range near Umtali (SAM). – Arnold, 1930:9 (in checklist of Afrotropical Sphecidae, as *sylvaticus*); Leclercq, 1961a:15 (in list of Afrotropical *Psen*); van Lith, 1974a:52 (supplementary description), 96 (probable member of subgenus *Psen*), 98 (in list of Afrotropical *Psenini*); R. Bohart and Menke, 1976:167 (in checklist of world Sphecidae); Rodgers and Homewood, 1982:233 (Tanzania: Usambara Mountains).

84. *simlensis* van Lith

Psen simlensis van Lith, 1968:119, ♀. Holotype: ♀, India: Himachal Pradesh: Simla (BMNH). – van Lith, 1968:132 (in list of East Asian, Indo-Australian, and South Pacific *Psen*), 1973b:128 (Nepal); R. Bohart and Menke, 1976:167 (in checklist of world Sphecidae); Deng, L. Ma, and Q. Li, 2025a:91, 95 (in key to *Psen* of China), 2025b:975, 980 (in updated key to *Psen* of China).

85. *spinitarsalis* Deng and L. Ma

Psen spinitarsalis Deng and L. Ma in Deng, L. Ma, and Q. Li, 2025b:985, ♀, ♂. Holotype: ♀, China: Hunan Province, Chenzhou City: Yizhang County: Mangshan Forest Park at 24°57'20.02"N 112°51'7.49"E (Yunnan Agricultural University, Kunming, China). – Deng, L. Ma, and Q. Li, 2025b:974, 978 (in updated key to *Psen* of China).

86. *spinitibialis* L. Ma and Q. Li

Psen spinitibialis L. Ma and Q. Li, 2007:263, ♂. Holotype: ♂, China: Zhejiang: Mount Longwangshan at 30°68'N 119°68' (Zhejiang University). – Deng, L. Ma, and Q. Li, 2025a:94 (in key to *Psen* of China), 2025b:979 (in updated key to *Psen* of China).

87. *striolatus* (Cameron)

Mimesa striolata Cameron, 1891:136, ♀. Syntypes: ♀, Mexico: Guerrero: Amula, Chilpancingo, Omilteme, Xucumanatlán; Vera Cruz: Atoyac (BMNH). – Dalla Torre, 1897:354 (in catalog of world Hymenoptera); Ashmead, 1899d:225 (in checklist of North American Crabronidae); Viereck, 1901b:342 (in checklist of North American *Psenini*). – **As *Psen striolatus***: R. Bohart in Bohart and Menke, 1976:167 (new generic assignment, in checklist of world Sphecidae); van Lith, 1975a:5 (redescription of female, description of ♂); Amarante, 2002:55 (in catalog of Neotropical Crabronidae); Ruíz Cancino, Coronado Blanco, Varela Fuente, and Horta Vega, 2002:667 (in checklist of Mexican Sphecidae).

88. *tanoi* Tsuneki

Psen tanoi Tsuneki, 1967f:6, ♀, ♂. Holotype: ♀, Taiwan: Chiayi Prefecture: Mount Ali, now Alsihan (originally K. Tsuneki coll., now USNM). – van Lith, 1968:132 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); R. Bohart and Menke, 1976:167 (in checklist of world Sphecidae); Tsuneki, 1977c:11 (Taiwan: Nantou Prefecture: Wushe), 1977j:277 (in key to related species); Nuhn and Menke, 1994:26 (holotype transferred to USNM); Porter, Stange, and Wang, 1999:6 (in checklist of Sphecidae of Taiwan); Hua, 2006:282 (in list of Chinese insects, geographic distribution); Deng, L. Ma, and Q. Li, 2025a:92, 95 (in key to *Psen* of China), 2025b:977, 980 (in updated key to *Psen* of China).

89. *terayamai* Tsuneki

Psen terayamai Tsuneki, 1982e:23, ♀. Holotype: ♀, Taiwan, Nantou Prefecture: Nanshanchi (originally K. Tsuneki coll., now Hyogo Mus.).—Tano, 1995:43 (holotype in K. Tsuneki collection); Hashimoto and Nakanishi, 1997:27 (holotype transferred to Hyogo Museum); Hua, 2006:282 (in list of Chinese insects, geographic distribution); Deng, L. Ma, and Q. Li, 2025a:90 (in key to *Psen* of China), 2025b:974 (in updated key to *Psen* of China).

90. *terrigenus* van Lith

Psen terrigenus van Lith, 1959:30, ♀. Holotype: ♀, Indonesia: Western Java: Mount Patuha: Rantja Bolang (RMNH). – van Lith, 1962:112 (in checklist of Indoaustralian *Psenini*), 1965:39 (bibliographic reference, relationships), 57 (is

a member of *orientalis* group), 1968:117 (description of ♂, East Java), 132 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); R. Bohart and Menke, 1976:167 (in checklist of world Sphecidae).

91. *toxopeusi* van Lith

Psen toxopeusi van Lith, 1959:47, ♀. Holotype: ♀, Indonesia: southwest Sulawesi: Malino (RMNH). – van Lith, 1959: 65 (is a member of *aureohirtus* species group), 1962:113 (in checklist of Indoaustralian Psenini), 1965:57 (bibliographic reference), 1968:122 (Sulawesi), 132 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); R. Bohart and Menke, 1976:167 (in checklist of world Sphecidae).

92. *triangulatus* van Lith

Psen triangulatus van Lith, 1959:25, ♂. Holotype: ♂, Indonesia: East Java: Reserve Semarang: Kopen: Mount Telego (RMNH). – van Lith, 1962:112 (in checklist of Indoaustralian Psenini), 1965:49 (Sumatra, discussion of characters), 1968:132 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); R. Bohart and Menke, 1976:167 (in checklist of world Sphecidae).

93. *unifasciculatus* Malloch

Psen unifasciculatus Malloch, 1933:15, ♂. Holotype: ♂, USA: New Mexico: Beulah (USNM). – Krombein in Muesebeck, Krombein, and Townes, 1951:959 (in catalog of North American Hymenoptera); van Lith, 1975a:11 (may be the opposite sex of *Psen montivagus*); R. Bohart and Menke, 1976:167 (in checklist of world Sphecidae); Krombein, 1979b:1599 (in catalog of North American Hymenoptera).

94. *ussuriensis* van Lith

Mimesa orientalis Gussakovskij, 1932, ♂, junior secondary homonym of *Psen orientalis* Cameron, 1890. Syntypes: ♂, Russia: Primorskiy Kray: Sutshan and Tigrovaya (Stockholm). – **As *Psen orientalis***: de Beaumont, 1937:43 (new generic assignment; in revision of Palearctic Psenini); Gussakovskij, 1937:656 (in revision of Palearctic *Psen*); Yasumatsu, 1942b:93 (description of ♀, Japan: Hokkaido).

Psen ussuriensis van Lith, 1959:59 (May). Substitute name for *Psen orientalis* (Gussakovskij). – Tsuneki, 1959g:78 (synonymy); Tsuneki and Shimoyama, 1963:49 (Japan: Towada Prefecture); van Lith, 1965:24 (comparison with *Psen tsunekii*, correctly: *Psen aurifrons*); Tano, 1968:33 (Japan); van Lith, 1968:131 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); Haneda, 1971a:19 (Japan: Fukui Prefecture); Nambu, 1973a:151 (Japan: Saitama Prefecture), 1975b:67 (Japan: Saitama Prefecture); R. Bohart and Menke, 1976:167 (in checklist of world Sphecidae); Kazenas, 1980e:87 (Russia: Primorskiy Kray); Budrys, 1986:141 (in key to Palearctic *Psen*), 143 (in revision of *Psen* of Russian Far East); Nemkov, 1992b:244 (Russia: Far East: Khingan Nature Reserve); Budrys in Nemkov, Kazenas, Budrys, et Antropov, 1995:393 (in key to Sphecidae of Russian Far East); Haneda, Nosaka, Tano, Kurokawa, and Murota, 2004:30 (Japan: Gifu Prefecture); Suda, 2004:38 (Japan: Yamanashi Prefecture); Haneda, Nozaka, Tano, Kurokawa, and Murota, 2005:44 (Japan: Gifu Prefecture); Negoro, Haneda, and Tano, 2005:45 (Japan: Toyama Prefecture); Haneda, Nozaka, Tano, Kurokawa and Murota, 2006a:19 (Japan: Toyama Prefecture); Nagase, 2006a:54 (Japan: Kanagawa Prefecture: Mount Komagatake near Hakone); L. Ma and Q. Li, 2007:264 (first record from China: Zhejiang: Mount Tianmu at 30°23'N 119°72'E); Nemkov, 2008b:18 (in catalog of Sphecidae and Crabronidae of Asiatic Russia); S. Takahashi and Haneda, 2008b:42 (Japan: Hokkaido: Sapporo); Nemkov, 2009b:59 (in new catalog of Sphecidae and Crabronidae of Asiatic Russia); J. Kim and Yang, 2010:141 (first record from Korea: several localities), 145 (in checklist of Korean Pemphredoninae); Nemkov, 2012c:436 (in catalog of Crabronidae of Russian Far East); Terayama and Gōkon, 2012:5, 17 (in key to Psenini of Japan, in Japanese), 29 (in list of Japanese Psenini); J.-K. Kim, 2014:445 (in catalog of Sphecidae *sensu lato* of Korean Peninsula); Mokrousov, 2017e:251 (in catalog of Pemphredoninae of Russia); Deng, L. Ma, and Q. Li, 2025a:92, 95 (in key to *Psen* of China), 2025b:976, 980 (in updated key to *Psen* of China).

Psen mandibularis Tsuneki, 1959g:66 (September), junior primary homonym of *Psen mandibularis* (H. Smith, 1908), now in *Mimumesa*. Substitute name for *Psen orientalis* (Gussakovskij). Synonymized with *Psen ussuriensis* by Tsuneki, 1959g:78. – Tsuneki, 1959g:52 (in key to *Psen* of Japan and Korea).

Psen tsunekii van Lith, 1965:26. Substitute name for *Psen mandibularis* Tsuneki, 1959. – van Lith, 1968:131 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); Suda, 1973:122 (Japan: Yamanashi Prefecture). – **As *Psen ussuriensis tsunekii***: Tano, 1971:81 (new status, Japan: Shikoku: Mount Tsurugi); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae).

95. *vadosus* van Lith

Psen vadosus van Lith, 1968:114, ♀, ♂. Holotype: ♀, Solomon Islands: Santa Ysabel: Tamatahi (Bishop Mus.). – van Lith, 1968:132 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); R. Bohart and Menke, 1976:167 (in checklist of world Sphecidae).

96. *vechti* van Lith

Psen vechti van Lith, 1959:40, ♀. Holotype: ♀, Indonesia: West Java: Mount Gedeh: Tjibodas (RMNH). – van Lith, 1959:67 (prey: *Aphrophora* sp., a cercopid), 1962:112 (in checklist of Indoaustralian Psenini), 1965:28 (bibliographic references, as *vechti vechti*), 1968:131 (in list of East Asian, Indo-Australian, and South Pacific *Psen*, as *vechti vechti*); R. Bohart and Menke, 1976:167 (in checklist of world Sphecidae).

ssp. *birmanicus* van Lith

Psen vechti birmanicus van Lith, 1965:28, ♀. Holotype: ♀, Myanmar: Chan Yoma (NHMW). – van Lith, 1968:131 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); R. Bohart and Menke, 1976:167 (in checklist of world Sphecidae).

97. *venetus* Pate

Psen venetus Pate, 1946d:4, ♀. Holotype: ♀, Cuba: Oriente Province: Pico Turquino (MCZ). – Alayo Dalmau, 1973:181 (in catalog of Cuban Hymenoptera), 1976:24 (in checklist of Cuban Sphecidae); R. Bohart and Menke, 1976:167 (in checklist of world Sphecidae); van Lith, 1975a:9 (diagnostic characters); Amarante, 2002:55 (in catalog of Neotropical Crabronidae); Portuondo and Fernández, 2004:135 (Cuba: Sierra Maestra); Genaro, 2006:57 (in checklist of Cuban Sphecidae and Crabronidae).

98. *yasumatsui* Gussakovskij

Psen yasumatsui Gussakovskij, 1934b:80, ♂. Holotype: ♂, Japan: Kyushû: Takachihonome (Fukuoka Univ.). – Gussakovskij, 1937:651 (in revision of Palearctic *Psen*); Tsuneki, 1959g:53 (in key to *Psen* of Japan and Korea), 74 (original description discussed); van Lith, 1965:18 (bibliographic references), 1968:131 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); R. Bohart and Menke, 1976:167 (in checklist of world Sphecidae); Budrys, 1986:138 (in key to Palearctic *Psen*); Budrys in Nemkov, Kazenas, Budrys, et Antropov, 1995:392 (in key to Sphecidae of Russian Far East); Terayama and Gōkon, 2012:7, 18 (in key to Psenini of Japan, in Japanese), 29 (in list of Japanese Psenini).

99. *yomasanus* van Lith

Psen yomasanus van Lith, 1965:45, ♀, ♂. Holotype: ♀, Myanmar: Chan Yoma (NHMW). – van Lith, 1968:132 (in list of East Asian, Indo-Australian, and South Pacific *Psen*); R. Bohart and Menke, 1976:167 (in checklist of world Sphecidae).

100. yunnanensis L. Ma and Q. Li

Psen yunnanensis L. Ma and Q. Li, 2007:260, ♀, ♂. Holotype: ♀, China: Yunnan: Dali in Yongping County at 25°7'N 100°2'E (Yunnan Agricultural University, Kunming, China). – Deng, L. Ma, and Q. Li, 2025a:90, 94 (in key to *Psen* of China), 2025b:974, 979 (in updated key to *Psen* of China).

sp.

Bridwell, 1899:209 (Kansas: no specific locality); Spahr, 1987:74 (in addition to Keilbach, 1982 catalog of amber Hymenoptera); González, Gayubo, and Torres, 1998:72, 73 (Spain: Valladolid Province); Kurczewski, 1998d:250 (upstate New York: pine barrens); Quicke, Ingram, Baillie, and Gattens, 1992:386 (sperm structure and ultrastructure); S. Gupta, 1995:85 (India: Uttar Pradesh); Yamane, Ikudome, and Terayama, 1999:483 (in Identification Guide to Crabronidae of Nansei = Ryukyu Islands, Japan); Haneda, Nozaka, Tano, Kurokawa, Murota, and Murota, 2007:53 (Japan: Kagoshima Prefecture: Amami Oshima Islands, two species); Terayama and Gōukon, 2012:6, 7, 20, 29 (in key to *Psenini* of Japan, in Japanese); Barthélémy and Guénard, 2025:36 (China: Hong Kong).

NOMINA NUDA IN PSEN

Psen albitarsus Herrich-Schaeffer, 1840:292 (Germany: Bayern: Regensburg area; as *Albitarsus*, incorrect original capitalization).

Psen algii Ashmead: R. Brown, 1906:687 (in catalog of Philippine Hymenoptera).

Psen assimilis Stephens, 1829a:362 (British Isles). – Stephens, 1829b:33 (in checklist of British insects).

Psen aterrimus Stephens, 1829a:362 (British Isles) = *Psenuus pallipes* (Panzer, 1798). – Stephens, 1829b:33 (in checklist of British insects).

Psen ambiguus Schenck, 1860:149 (Germany: Nassau Region).

Psen caliginosus Stephens, 1829a:362 (British Isles) = *Psenuus pallipes* (Panzer, 1798). – Stephens, 1829b:33 (in checklist of British insects).

Psen (Mimumesa) columbianus Gittins: Buck, 2004:37 (Canada: New Brunswick and Ontario)

Psen fulvicornis Schenck, 1860:149 (Germany: Nassau Region).

Psen intermedius Schenck, 1860:149 (Germany: Nassau Region).

Psen laevigatus Schenck, 1860:149 (Germany: Nassau Region).

Psen mikado Yasumatsu: Iwata, 1955:29 (egg size, number of oocytes).

Psen phaeopterus Stephens, 1829a:362 (British Isles). – Stephens, 1829b:33 (in checklist of British insects).

SPECIES DESCRIBED IN PSEN AND TRANSFERRED TO OTHER GENERA

albopilosus Tsuneki, 1972 = *Mimesa sibirica* (de Beaumont, 1937)

alticola Viereck, 1903 = *Mimumesa mixta* (W. Fox, 1898)

ambiguus Schenck, 1857 = *Psenuus concolor* Dahlbom, 1843

angulatus Malloch, 1933 = *Pseneo kohlii* (W. Fox, 1898)

angulicollis Tsuneki, 1972 = *Mimesa punctipleuris* (Gussakovskij, 1937)

annulipes Cameron, 1891 = *Pluto*

argentifrons Cresson, 1865:152 (Jan) = *Pluto*

argentifrons Cresson, 1865:487 (June) = *Mimesa ezrae* (Pate, 1944)

arizonensis Malloch, 1933 = *Mimesa*

atriventris Malloch, 1933 = *Mimesa cressonii atriventris*

auratus van Lith, 1959 = *Pseneo*

auriger van Lith, 1975 = *Pseneo*

auriventris van Lith, 1975 = *Pseneo*

basalis Stephens, 1829 = *Mimesa equestris* (Fabricius, 1804)

beaumonti van Lith = *Mimumesa*
bermudensis Malloch, 1933 = *Mimumesa*
bidentatus Gussakovskij, 1937 = *Mimesa vindobonensis* Maidl, 1914
caliginosus Hewitson, 1837 = ? – Dalla Torre, 1897:347 (in catalog of world Hymenoptera); not listed by
 R. Bohart and Menke, 1976
canadensis Malloch, 1933 = *Mimumesa*
canalicus van Lith, 1975 = *Pseneo*
carolina Rohwer, 1910 = *Pseneo*
carinatus Gussakovskij, 1937 = *Mimesa grandii* Maidl, 1933
carinifrons Cameron, 1902 = *Psenulus*
chalcifrons Packard, 1867 = *Mimumesa mellipes* (Say, 1837)
chevrieri Tournier, 1889 = *Psenulus pallipes* (Panzer, 1798)
chinensis Gussakovskij, 1937 = *Mimesa*
clavatus Cameron, 1890 = *Psenulus*
clypeatus W. Fox, 1898 = *Mimumesa*
coloradensis Cameron, 1908 = *Mimumesa*
concolor Dahlbom, 1843 = *Psenulus*
concolor Radoszkowski, 1891 = *Mimumesa dahlbomi* (Wesmael, 1852)
concors Gussakovskij, 1937 = *Mimesa*
cooperi van Lith, 1975 = *Pseneo*
coquilletti Rohwer, 1910 = *Mimesa*
cylindricus W. Fox, 1898 = *Mimumesa*
dilectus de Saussure, 1892 = *Psenulus*
distinctus Chevrier, 1870 = *Psenulus laevigatus* (Schenck, 1857)
dufour Dahlbom, 1845 = *Psenulus fuscipennis* (Dahlbom, 1843)
dzingis Tsuneki, 1972 = *Mimesa fallax* F. Morawitz, 1893
edentatus Malloch, 1933 = *Mimesa*
elongatus Packard, 1867 = *Mimumesa leucopus* (Say, 1837)
empeyi van Lith, 1974 = *Mimesa*
erraticus F. Smith, 1860 = *Psenulus*
ezra Pate, 1944 = *Mimesa*
floridanus Rohwer, 1910 = *Mimumesa longicornis* (W. Fox, 1898)
frontalis W. Fox, 1898 = *Psenulus*
fulvicornis Schenck, 1857 = *Psenulus*
fulvipes Malloch, 1933 = *Pseneo kohlii* (W. Fox, 1898)
fulvitaris Gussakovskij, 1934 and 1937 = *Mimumesa littoralis* (Bondroit, 1934)
fuscipennis Radoszkowski, 1891 = *Mimumesa*
fuscipennis Dahlbom, 1843 = *Psenulus*
fuscipes Packard, 1867 = *Mimumesa*
granulosus W. Fox, 1898 = *Mimesa*
gregarius W. Fox, 1898 = *Mimesa*
gussakovskiji de Beaumont, 1941 = *Mimesa*
haemorrhoidalis A. Costa, 1871 = *Psenulus pallipes* (Panzer, 1798)
haemorrhoidalis Berland, 1925 = *Psenulus berlandi* de Beaumont, 1937
hanedai Tsuneki, 1964 = *Odontopsen*
hissaricus Gussakovskij, 1935 = *Mimesa*

impressifrons Malloch, 1933 = *Mimesa*
indicus van Lith, 1968 = *Pseneo exaratus indicus*
intermedius Schenck, 1857 = *Psenulus concolor* Dahlbom, 1843
intermedius Tsuneki, 1966 = *Pseneo exaratus intermedius*
interstitialis Cameron, 1908 = *Mimumesa*
jacobsoni Gussakovskij, 1937 = *Mimesa*
joergenseni Brèthes, 1913 = *Pluto*
kashmirensis Nurse, 1903 = *Psenulus*
kaszabi Tsuneki, 1972 = *Mimesa*
kohlui W. Fox, 1898 = *Pseneo*
laevigatus Schenck, 1857 = *Psenulus*
latiannulatus Cameron, 1908 = *Psenulus capensis latiannulatus*
leucopus Say, 1837 = *Mimumesa*
longicornis W. Fox, 1898 = *Mimumesa*
longulus Tournier, 1889 = *Psenulus schencki* (Tournier, 1889)
lubricus Pérez, 1905 = *Psenulus*
lutescens R. Turner, 1907 = *Psenulus interstitialis lutescens* (R. Turner)
madecassus Arnold, 1945 = *Pseneo*
marginicollis Cameron = *Stigmus*
medius F. Smith, 1856 = *Pluto*
mellipes Say, 1837 = *Mimumesa*
meridionalis Tsuneki, 1972 = *Mimumesa vanlithi meridionalis*
miltoni van Lith, 1965 = *Pseneo auratus miltoni*
mindoroensis van Lith, 1959 = *Pseneo auratus mindoroensis*
minidentatus van Lith, 1975 = *Pseneo*
minutus Tournier, 1889 = *Psenulus pallipes* (Panzer, 1798)
mishimae Tsuneki, 1984 = *Mimumesa*
mixtus W. Fox, 1898 = *Mimumesa*
modestus Rohwer, 1915 = *Mimumesa*
montanus Cameron, 1907 = *Psenulus pallipes* (Panzer, 1798)
montanus A. Costa, 1868 = *Psenulus pallipes* (Panzer, 1798)
multipunctatus van Lith, 1959 = *Pseneo auratus multipunctatus*
niger Packard, 1867 = *Mimumesa*
nigratus Brischke, 1862 = *Psenulus fuscipennis* (Dahlbom, 1845)
nigrescens Rohwer, 1910 = *Mimesa*
nigricornis Tournier, 1889 = *Psenulus pallipes* (Panzer, 1798)
nigripes van Lith, 1975 = *Pseneo*
nylanderi Dahlbom, 1845 = *Psenulus fuscipennis* (Dahlbom, 1843)
oresterus van Lith, 1976 = *Mimumesa*
ornatus Ritsema, 1880 = *Psenulus*
pacificus Tsuneki, 1959 = *Mimumesa dahlbomi pacifica*
pekingensis Tsuneki, 1971 = *Mimesa*
perplexus Rohwer, 1910 = *Mimesa*
petiolatus F. Smith, 1863 = *Mimumesa*
politus Malloch, 1933 = *Mimesa*
procerus A. Costa, 1871 = *Psenulus fuscipennis* (Dahlbom, 1843)

propinquus Kincaid, 1900 = *Mimumesa*
psychrus Pate, 1944 = *Mimumesa*
pulawskii Kazenas, 1978 = *Mimesa*
punctatus W. Fox, 1898 = *Pseneo*
pulcherrimus Bingham, 1896 = *Psenulus*
puncticeps Cameron, 1907 = *Psenulus*
punctifrons Malloch, 1933 = *Mimesa*
punctipleuris Gussakovskij, 1937 = *Mimesa*
pygidialis Malloch, 1933 = *Mimesa*
pygmaeus Tournier, 1889 = *Psenulus pallipes* (Panzer, 1798)
regularis W. Fox, 1898 = *Mimumesa*
reticulatus Malloch, 1933, nec Cameron, 1902 = *Mimumesa mallochi* Amarante, 2005
rossicus Gussakovskij, 1937 = *Mimesa bruxellensis* Bondroit, 1937
rufobalteatus Cameron, 1904 = *Psenulus*
sameshimai Yasumatsu, 1937 = *Mimumesa atratina sameshimai*
santaro Yasumatsu, 1942 = *Pseneo exaratus santaro*
schencki Tournier, 1889 = *Psenulus*
shestakovi Gussakovskij, 1937 = *Mimesa*
sibiricus Gussakovskij, 1937, nec de Beaumont, 1937 = *Mimumesa sibiricana* R. Bohart, 1976
similis Rohwer, 1910 = *Mimumesa mixta* (W. Fox, 1898)
simplex Malloch, 1933 = *Mimesa gregaria simplex*
simplicicornis W. Fox, 1898 = *Pseneo*
simplex Tournier, 1889 = *Psenulus schencki* (Tournier, 1889)
smithi W. Fox, 1897 = *Pluto*
spicatus Malloch, 1933 = *Pseneo longiventris* (Cameron, 1891)
sublaevis de Beaumont, 1954 = *Mimesa*
suffusus W. Fox, 1898 = *Pluto*
sumatranus Ritsema, 1880 = *Psenulus crabroniformis sumatranus*
taiwanus Tsuneki, 1966 = *Pseneo exaratus taiwanus*
townesi van Lith, 1959 = *Psen*
tridentatus van Lith, 1959 = *Pseneo*
trisulcus W. Fox, 1898 = *Psenulus*
unicolor Vander Linden, 1829 = *Mimumesa*
vanlithi Tsuneki, 1959 = *Mimumesa*
wuestneii Faester, 1951 = *Mimumesa*

SPECIES RECENTLY TRANSFERRED TO PSENEO

exaratus (Eversmann, 1849) = *Pseneo*