

LASIUS

affinis. *Formica affinis* Schenck, 1852: 62 (w.q.m.) GERMANY.

[Junior primary homonym of *Formica affinis* Leach, 1825: 290 (Emery, 1921a: 24).]

Combination in *Lasius*: Mayr, 1861: 50 (in key);

combination in *Lasius (Chthonolasius)*: Ruzsky, 1912: 633;

combination in *Lasius (Lasius)*: Forel, 1915d: 52;

combination in *Formicina*: Emery, 1916a: 64; Bondroit, 1918: 31;

combination in *Formicina (Formicina)*: Emery, 1916b: 242;

combination in *Acanthomyops*: Ruzsky, 1925b: 45;

combination in *Lasius (Chthonolasius)*: Ruzsky, 1914a: 61; Emery, 1925b: 233.

As unavailable (infrasubspecific) name: Emery & Forel, 1879: 453; Ruzsky, 1905b: 291; Wheeler, W.M. 1905f: 397.

Subspecies of umbratus: Forel, 1874: 47; Mayr, 1886d: 430; Ruzsky, 1896: 71; Forel, 1889: 256; Stitz, 1914: 86; Escherich, 1917: 333 (in key); Emery, 1925b: 233; Ruzsky, 1925a: 288; Grandi, 1935: 103; Karavaiev, 1936: 214.

Subspecies of bicornis: André, 1882b: 196; Nasonov, 1889: 24; Dalla Torre, 1893: 182; Forel, 1915d: 52; Emery, 1916b: 242; Müller, 1921: 48; Soudek, 1922: 73; Ruzsky, 1925b: 45; Karavaiev, 1927c: 279 (in key); Arnol'di, 1933b: 603 (in key).

Status as species: Mayr, 1855: 368 (redescription); Gredler, 1858: 15; Smith, F. 1858b: 8; Mayr, 1861: 50 (in key); Roger, 1863b: 12; Mayr, 1863: 425; Emery, 1869b: 9; André, 1874: 181 (in key); Emery, 1878b: 48; Ruzsky, 1902d: 15; Ruzsky, 1903b: 307; Bondroit, 1912: 352; Emery, 1914d: 159; Ruzsky, 1914a: 61; Bondroit, 1918: 31; Stärcke, 1926: 122 (in key); Lomnicki, 1928: 7; Kuznetsov-Ugamsky, 1928b: 20; Kuznetsov-Ugamsky, 1929a: 27; Kuznetsov-Ugamsky, 1929b: 37; Stärcke, 1937: 49; Stitz, 1939: 299; Novák & Sadil, 1941: 103 (in key); Ruzsky, 1946: 70; Collingwood, 1963: 145; Baroni Urbani, 1964c: 163; Collingwood & Yarrow, 1969: 80; Baroni Urbani, 1971c: 209; Collingwood, 1971: 166; Pisarski, 1975: 37; van Boven, 1977: 150; Kutter, 1977c: 232; Arnol'di & Dlussky, 1978: 556 (in key); Collingwood, 1978: 90 (in key); Collingwood, 1979: 102; Agosti & Collingwood, 1987a: 57; Agosti & Collingwood, 1987b: 282 (in key); Seifert, 1988a: 163 (redescription); Atanassov & Dlussky, 1992: 248 (error); Radchenko, 1994b: 115 (in key; error); Espadaler, 1997b: 28 (error); Gallé, *et al.* 1998: 217 (error); Csösz, & Markó, 2005: 231 (error); Petrov, 2006: 107 (in key; error).

Junior synonym of *bicornis*: Smith, F. 1858b: 8.

Junior synonym of *umbratus*: Wilson, 1955a: 150; Bernard, 1967: 363; Smith, D.R. 1979: 1439.

Synonym of *citrinus*: Seifert, 1990: 7, 10.

Replacement name: *Lasius bicornis* var. *citrina* Emery, 1922b: 12.

[Note: *citrina* junior synonym of *affinis* Schenck (synonymy by Seifert, 1990: 7); hence *citrina* first available replacement name (Seifert, 1990: 7).]

affinoumbratus. *Lasius umbratus* var. *affinoumbratus* Donisthorpe, 1914: 40 (w.) GREAT BRITAIN.

[Also described as new by Donisthorpe, 1927b: 273.]

Subspecies of *umbratus*: Stärcke, 1937: 57.

Junior synonym of *umbratus*: Wilson, 1955a: 151; Smith, D.R. 1979: 1439; Bolton, 1995b: 221; Radchenko, 2016: 373.

[Note: Seifert, 1990: 12, says *affinoumbratus* must be a synonym of either *mixtus*, *sabularum*, or *meridionalis*.]

alienoamericanus. *Lasius niger* subsp. *alienus* var. *alienoamericanus* Wheeler, W.M. 1917a: 526 (q.) U.S.A. (no state data); unavailable (infrasubspecific) name.

Declared as unavailable (infrasubspecific) name: Bolton, 1995b: 221.

Material referred to *alienus* by Wilson, 1955a: 77; Smith, M.R. 1958c: 147; Smith, D.R. 1979: 1435.

alienobrunneus. *Lasius niger* var. *alienobrunneus* Forel, 1874: 47 (w.) SWITZERLAND.

Emery, 1916b: 249 (q.).

Combination in *Lasius (Lasius)*: Forel, 1915d: 53;

combination in *Formicina*: Emery, 1917b: 28.

As unavailable (infrasubspecific) name: Emery & Forel, 1879: 452; Lameere, 1892: 64; Forel, 1894c: 404; Emery, 1916b: 241.

Subspecies of *niger*: André, 1882b: 194; Forel, 1906b: 85.

Status as species: Forel, 1886e: clxvii; Bingham, 1903: 340; Emery, 1917b: 28.

Subspecies of *brunneus*: Ruzsky, 1902a: 233; Ruzsky, 1902d: 17; Forel, 1915d: 53 (in key); Bondroit, 1918: 27; Soudek, 1922: 71; Emery, 1925b: 229; Betrem, 1926: 215; Stärcke, 1926: 124 (in key); Karavaiev, 1927c: 279 (in key); Menozzi, 1939a: 314 (in key); Novák & Sadil, 1941: 101 (in key); Holgersen, 1943b: 174 (in key).

Junior synonym of *lasioides*: Dalla Torre, 1893: 182.

Junior synonym of *brunneus*: Stärcke, 1944a: 157; Wilson, 1955a: 47; Bernard, 1967: 358; Pisarski, 1975: 33; Kutter, 1977c: 14; Seifert, 1992b: 6; Arakelian, 1994: 118; Bolton, 1995b: 221; Czechowski, *et al.* 2002: 104; Czechowski, *et al.* 2012: 261; Radchenko, 2016: 366.

alienoflavus. *Lasius alienoflavus* Bingham, 1903: 341 (w.q.) INDIA (no state data, “Himalayas, above 8000 ft.”).

Bharti & Gul, 2014: 7 (m.).

Combination in *Lasius (Lasius)*: Emery, 1925b: 231;

combination in *Lasius (Cautolasius)*: Wilson, 1955a: 111.

Status as species: Forel, 1906b: 85; Emery, 1925b: 231; Menozzi, 1939a: 315 (in key); Wilson, 1955a: 111 (redescription); Collingwood, 1982: 290; Bolton, 1995b: 221; Bharti & Gul, 2013: 57 (in key); Bharti & Gul, 2014: 4 (redescription); Bharti, Guénard, *et al.* 2016: 27.

alienoides. *Lasius alienoides* Forel, 1890a: lxvii (no sex/caste indicated) TUNISIA. *Nomen nudum* (and proposed in synonymy).

[*Lasius niger* var. *alienoides* Emery, 1891b: 16. *Nomen nudum* (attributed to Forel).]

alienoniger. *Lasius niger* var. *alienoniger* Forel, 1874: 47 (w.q.) SWITZERLAND.

Combination in *Donisthorpea*: Donisthorpe, 1915d: 211;

combination in *Formicina*: Emery, 1917b: 28;

combination in *Acanthomyops (Donisthorpea)*: Donisthorpe, 1950e: 1063.

As unavailable (infrasubspecific) name: Emery & Forel, 1879: 452; Lameere, 1892: 64; Forel, 1915d: 53; Emery, 1916b: 240; Ruzsky, 1916: 5; Santschi, 1919e: 246; Emery, 1925b: 230; Soudek, 1925b: 16; Karavaiev, 1927c: 280 (in key); Karavaiev, 1927d: 348; Wheeler, W.M. 1928d: 124; Karavaiev, 1930b: 148; Azuma, 1951: 88; Azuma, 1953: 4; Azuma, 1955: 80.

Subspecies of *niger*: André, 1882b: 194; Dalla Torre, 1893: 190; Ruzsky, 1902a: 233; Ruzsky, 1902d: 16; Ruzsky, 1905b: 301; Ruzsky, 1912: 634; Ito, T. 1914: 44; Donisthorpe, 1914: 39; Donisthorpe, 1915d: 211; Soudek, 1922: 70; Müller, 1923b: 126; Finzi, 1924a: 14; Santschi, 1926f: 289; Stärcke, 1926: 123 (in key); Donisthorpe, 1927b: 241; Karavaiev, 1927a: 300; Novák & Sadil, 1941: 101 (in key); Stärcke, 1944a: 154; Morisita, 1945: 22; Donisthorpe, 1950e: 1063.

Subspecies of *alienus*: Bondroit, 1918: 26; Zimmermann, 1935: 48.

Status as species: Mayr, 1877: 20 (in list); Forel, 1886e: clxvii; Forel, 1892i: 307; Emery, 1917b: 28; Rössler, 1943: 44.

Junior synonym of *alienus*: Pisarski, 1975: 34; Gallé, *et al.* 1998: 217.

Unidentifiable taxon, *incertae sedis* in *Lasius*: Seifert, 1992b: 48.

Junior synonym of *niger*: Wilson, 1955a: 59; Bernard, 1967: 355; Baroni Urbani, 1971c: 206; van Boven, 1977: 144; Kutter, 1977c: 14; Smith, D.R. 1979: 1436; Yamauchi, 1979: 152; Onoyama, 1980: 199; Arakelian, 1994: 122; Bolton, 1995b: 221; Radchenko, 2016: 360.

alienus. *Formica aliena* Foerster, 1850a: 36 (w.m.) GERMANY.

[Misspelled as *alineus* by Pisarski & Krzysztofiak, 1981: 160.]

Foerster, 1850a: 71 (q.); Wheeler, G.C. & Wheeler, J. 1953c: 147 (l.); Hauschteck, 1962: 219 (k.).

Combination in *Lasius*: Mayr, 1861: 49 (in key);

combination in *Lasius* (*Lasius*): Ruzsky, 1912: 633; Forel, 1915d: 53; Wheeler, W.M. 1916k: 172; Karavaiev, 1936: 205;

combination in *Donisthorpea*: Donisthorpe, 1915d: 212;

combination in *Formicina* (*Donisthorpea*): Emery, 1916b: 240;

combination in *Formicina*: Bondroit, 1918: 25;

combination in *Lasius* (*Donisthorpea*): Nadig, 1918: 340;

combination in *Acanthomyops*: Ruzsky, 1925b: 44;

combination in *Acanthomyops* (*Donisthorpea*): Betrem, 1926: 215; Donisthorpe, 1927a: 8; Donisthorpe, 1950e: 1063;

combination in *Lasius*: Ruzsky, 1916: 5; Wheeler, W.M. 1917i: 463; Menozzi, 1921: 32; Müller, 1923b: 125; Emery, 1925b: 230; Kuznetsov-Ugamsky, 1929a: 27.

combination in *Lasius* (*Lasius*): Wilson, 1955a: 77.

Subspecies of niger: Forel, 1874: 46 (in key); Mayr, 1877: 20 (in list); Emery & Forel, 1879: 452; Mayr, 1886d: 429; Forel, 1886e: clxvii; Provancher, 1887: 236 (in key); Cresson, 1887: 255; Forel, 1889: 256; Forel, 1890a: lxvii; Emery, 1891b: 16; Forel, 1892i: 307; Lameere, 1892: 64; Emery, in Dalla Torre, 1893: 187 (footnote); Forel, 1894c: 404; Forel, 1894d: 12; Ruzsky, 1896: 71; Saunders, E. 1896: 25; Ruzsky, 1902a: 233; Ruzsky, 1903b: 306; Forel, 1904b: 386; Ruzsky, 1905b: 304; Wheeler, W.M. 1906c: 322; Forel, 1906b: 85; Forel, 1906c: 189; Wasmann, 1906: 114 (in key); Forel, 1909c: 105; Yano, 1910: 421; Bondroit, 1910: 485; Forel, 1910a: 23; Karavaiev, 1910a: 268; Forel, 1911d: 352; Karavaiev, 1912b: 588; Krausse, 1912b: 165; Forel, 1913d: 438; Ruzsky, 1914a: 61; Stitz, 1914: 84; Emery, 1914d: 159; Ruzsky, 1915a: 434; Forel, 1915d: 53 (in key); Emery, 1916b: 240; Ruzsky, 1916: 5; Wheeler, W.M. 1916k: 172; Escherich, 1917: 332 (in key); Wheeler, W.M. 1917a: 525; Wheeler, W.M. 1917i: 463; Nadig, 1918: 340; Santschi, 1919e: 246; Menozzi, 1921: 32; Menozzi, 1922b: 331; Soudek, 1922: 69; Kulmatycki, 1922: 80; Finzi, 1923: 4; Kuznetsov-Ugamsky, 1923: 243; Emery, 1925b: 230; Ruzsky, 1925a: 288; Ruzsky, 1925b: 44; Santschi, 1925g: 349; Schkaff, 1925: 275; Soudek, 1925b: 16; Santschi, 1926f: 289; Menozzi, 1926b: 182; Karavaiev, 1927a: 300; Karavaiev, 1927c: 280 (in key); Karavaiev, 1927d: 347; Kuznetsov-Ugamsky, 1927e: 188; Menozzi, 1927b: 91; Kuznetsov-Ugamsky, 1928b: 20; Lomnicki, 1928: 8; Wheeler, W.M. 1928c: 38; Kuznetsov-Ugamsky, 1929a: 27; Kuznetsov-Ugamsky, 1929b: 37; Karavaiev, 1930b: 147; Wheeler, W.M. 1930h: 80; Karavaiev, 1931e: 214; Soudek, 1931: 13; Gösswald, 1932: 57; Menozzi, 1932b: 311; Wheeler, W.M. 1932a: 16; Arnol'di, 1933b: 603 (in key); Grandi, 1935: 103; Karavaiev, 1935b: 108; Menozzi, 1936d: 305; Karavaiev, 1936: 205 (redescription); Karavaiev, 1937: 175; Menozzi, 1939a: 312; Morisita, 1945: 22; Ruzsky, 1946: 69; Azuma, 1951: 88; Smith, M.R. 1951a: 850; Chapman & Capco, 1951: 202; Azuma, 1953: 4; Azuma, 1955: 80; Ceballos, 1956: 316.

Status as species: Schenck, 1852: 51; Mayr, 1855: 360 (redescription); Nylander, 1856b: 68; Gredler, 1858: 13; Smith, F. 1858b: 7; Mayr, 1861: 49 (in key); Roger, 1861b: 165; Roger, 1863b: 11; Mayr, 1863: 425; Smith, F. 1871b: 2; Dours, 1873: 165; André, 1874:

180 (in key); Mayr, 1877: 6; Emery, 1878b: 47; Saunders, E. 1880: 209; Mayr, 1880: 26; André, 1882b: 192 (in key); White, W.F. 1884: 255; Nasonov, 1889: 22; Emery, 1891b: 16; Dalla Torre, 1893: 181; Emery, 1897f: 238; Ruzsky, 1902d: 16; Ruzsky, 1903c: 207; Bingham, 1903: 342; Viehmeyer, 1906: 56; Emery, 1908d: 24; Bondroit, 1911: 11; Donisthorpe, 1915d: 212; Bondroit, 1918: 25; Crawley, 1920b: 177; Müller, 1923a: 74; Müller, 1923b: 125; Lomnicki, 1925b: 3; Betrem, 1926: 215; Stärcke, 1926: 124 (in key); Donisthorpe, 1927a: 8; Donisthorpe, 1927b: 242; Finzi, 1933: 165; Stitz, 1934: 9; Zimmermann, 1935: 48; Ruzsky, 1936: 90; Finzi, 1939c: 160; Stitz, 1939: 279; Novák & Sadil, 1941: 101 (in key); Röszler, 1942a: 53; Holgersen, 1943b: 174 (in key); Holgersen, 1944: 180; Stärcke, 1944a: 153; van Boven, 1947: 186 (in key); Arnol'di, 1948: 212 (in list); Creighton, 1950a: 419; Röszler, 1951: 91; Consani & Zangheri, 1952: 44; Wilson, 1955a: 77 (redescription); Bernard, 1956b: 261; Smith, M.R. 1958c: 147; Bernard, 1959: 351; Carter, 1962a: 7 (in list); Dlussky, 1962: 182; Baroni Urbani, 1964a: 7; Baroni Urbani, 1964b: 63; Baroni Urbani, 1964c: 166; Cagniant, 1964: 92; Cagniant, 1966b: 281; Beck, *et al.* 1967: 70; Bernard, 1967: 356 (redescription); Smith, M.R. 1967: 367; Baroni Urbani, 1968b: 488; Cagniant, 1968a: 146; Kutter, 1968a: 61; Baroni Urbani, 1969a: 334; Collingwood & Yarrow, 1969: 79; Pisarski, 1969a: 231; Pisarski, 1969b: 306; Dlussky & Pisarski, 1970: 87; Cagniant, 1970c: 38; Baroni Urbani, 1971c: 200; Collingwood, 1971: 165; Bourne, 1973: 24; Baroni Urbani, 1974: 238; Bolton & Collingwood, 1975: 7 (in key); Hunt & Snelling, 1975: 22; Pisarski, 1975: 34; Tarbinsky, 1976: 138 (redescription); Collingwood, 1976: 305; Aktaç, 1977: 126; Azuma, 1977: 117; van Boven, 1977: 144; Francoeur, 1977b: 207; Kutter, 1977c: 227; Yensen, *et al.* 1977: 184; Arnol'di & Dlussky, 1978: 555 (in key); Collingwood, 1978: 89 (in key); Wheeler, G.C. & Wheeler, J. 1978: 393; Smith, D.R. 1979: 1435; Collingwood, 1979: 97; Yamauchi, 1979: 156; Onoyama, 1980: 199; Collingwood, 1981: 27; Dlussky, 1981a: 17; Pisarski & Krzysztofiak, 1981: 160; Schembri & Collingwood, 1981: 438; Allred, 1982: 479; Collingwood, 1982: 285; Wheeler, G.C. & Wheeler, J. 1986g: 65; Agosti & Collingwood, 1987a: 58; Agosti & Collingwood, 1987b: 282 (in key); Nilsson & Douwes, 1987: 70; DuBois & LaBerge, 1988: 149; Kugler, J. 1988: 259; Mackay, Lowrie, *et al.* 1988: 118; Deyrup, *et al.* 1989: 99; Kupyanskaya, 1990: 218; Dlussky, Soyunov & Zabelin, 1990: 159; Casevitz-Weulersse, 1990c: 428; Le Moli & Rosi, 1991: 36; Morisita, *et al.* 1991: 27; Atanassov & Dlussky, 1992: 237; Blacker, 1992: 9; Seifert, 1992b: 13 (redescription); Wu, J. & Wang, 1992: 1312; Collingwood, 1993b: 195; Arakelian, 1994: 116; Radchenko, 1994b: 115 (in key); Wheeler, G.C., *et al.* 1994: 307; Bolton, 1995b: 221; Douwes, 1995: 94; Poldi, *et al.* 1995: 7; Tang, J., Li, *et al.* 1995: 108; Wu, J. & Wang, 1995: 155; Espadaler, 1997b: 28; Collingwood & Prince, 1998: 23 (in key); Gallé, *et al.* 1998: 216; Czechowski, *et al.* 2002: 105; Mackay & Mackay, 2002: 379; Zhang, W. & Zheng, 2002: 219; Deyrup, 2003: 45; Imai, *et al.* 2003: 63; Karaman, M.G. & Karaman, 2003: 52; Coovert, 2005: 120; Csösz, & Markó, 2005: 230; Karaman, G.S. & Karaman, 2005: 56; MacGown & Forster, 2005: 64; Ward, 2005: 64; Bračko, 2006: 148; Markó, Sipos, *et al.* 2006: 68; Petrov, 2006: 69, 107 (in key); Schultz, R. *et al.* 2006: 205; Zhou, 2006: 587; Bračko, 2007: 20; Seifert, 2007: 272; Werner & Wiezik, 2007: 153; Zryanin & Zryanina, 2007: 234; Gratiashvili & Barjadze, 2008: 136; Paknia, *et al.* 2008: 154; Casevitz-Weulersse & Galkowski, 2009: 483; Lapeva-Gjonova, *et al.* 2010: 35; Boer, 2010: 42; Csösz, *et al.* 2011: 58; Karaman, M.G. 2011: 86; Legakis, 2011: 26; Borowiec, L. & Salata, 2012: 498; Czechowski, *et al.* 2012: 263; Ellison, *et al.* 2012: 189; Guénard & Dunn, 2012: 32; Kiran & Karaman, 2012: 11; Bharti & Gul, 2013: 57 (in key); Borowiec, L. 2014: 83; Tohmé, G. & Tohmé, 2014: 139; Bharti, Guénard, *et al.* 2016: 27; Lebas, *et al.* 2016: 210; Radchenko, 2016: 362; Seifert & Galkowski, 2016: 52 (in key); Deyrup, 2017: 206; Borowiec, L. & Salata, 2018: 6; Salata & Borowiec, 2018c: 45; Schär, Talavera, *et al.* 2018: 6; Seifert, 2018: 268.

Senior synonym of *pannonica*: Wilson, 1955a: 77; Smith, D.R. 1979: 1435; Bolton, 1995b: 221; Radchenko, 2016: 362.

Material of the unavailable name *alienoamericanus* referred here by Wilson, 1955a: 77; Smith, M.R. 1958c: 147; Smith, D.R. 1979: 1435.

Material of the unavailable names *flavidus*, *turkmenus* referred here by Wilson, 1955a: 77; Smith, D.R. 1979: 1435; Dlussky, Soyunov & Zabelin, 1990: 159.

Material of the unavailable name *pilicornis* referred to *niger* by Wilson, 1955a: 59; Smith, D.R. 1979: 1436; referred to *alienus* by Dlussky, Soyunov & Zabelin, 1990: 159.

***americanus*.** *Lasius niger* var. *americanus* Emery, 1893i: 639 (w.q.m.) U.S.A. (no state data).

Wheeler, G.C. & Wheeler, J. 1953c: 147 (l.).

As unavailable (infrasubspecific) name: Wheeler, W.M. 1916k: 172; Wheeler, W.M. 1917a: 525; Wheeler, W.M. 1917i: 463; Emery, 1925b: 230; Essig, 1926: 866; Smith, M.R. 1930a: 5; Menozzi, 1932b: 311; Smith, M.R. 1951a: 850.

Junior synonym of *alienus*: Wilson, 1955a: 77; Smith, M.R. 1958c: 147; Smith, D.R. 1979: 1435; Bolton, 1995b: 221; Coovert, 2005: 120; Radchenko, 2016: 362.

Subspecies of *niger*: Forel, 1900e: 285; Wheeler, W.M. 1904e: 305; Wheeler, W.M. 1905f: 393; Wheeler, W.M. 1906b: 12; Wheeler, W.M. 1906d: 343; Wheeler, W.M. 1908f: 623; Wheeler, W.M. 1910g: 569; Santschi, 1911d: 7; Wheeler, W.M. 1913c: 116; Wheeler, W.M. 1916m: 592; Cole, 1936a: 37; Cole, 1937b: 137; Dennis, 1938: 295; Wing, 1939: 164; Cole, 1942: 374; Buren, 1944a: 296; Wheeler, G.C. & Wheeler, E.W. 1944: 253.

Subspecies of *alienus*: Creighton, 1950a: 419.

Status as species: Gregg, E.V. 1945: 530; Schär, Talavera, *et al.* 2018: 6.

****anthracinus*.** **Poneropsis anthracina* Heer, 1867: 22, pl. 2, fig. 8 (q.) CROATIA (Miocene).

Combination in *Hypoclinea*: Mayr, 1867b: 57;

combination in *Dolichoderus*: Handlirsch, 1907: 870; Shattuck, 1994: 42;

incertae sedis in Formicidae: Taylor, 1964: 138;

combination in *Lasius*: Dlussky & Putyatina, 2014: 261.

Status as species: Mayr, 1867b: 57; Scudder, 1891: 710, 727; Dalla Torre, 1893: 157; Handlirsch, 1907: 870; Shattuck, 1994: 42; Bolton, 1995b: 172; Dlussky & Putyatina, 2014: 261 (redescription).

apennina. *Lasius (Chthonolasius) umbratus* var. *apennina* Menozzi, 1925d: 34 (w.) ITALY.

Menozzi, 1932a: 8 (q.m.).

Subspecies of *flavus*: Menozzi, 1932a: 8.

Subspecies of *umbratus*: Grandi, 1935: 103.

Junior synonym of *flavus*: Wilson, 1955a: 112; Bernard, 1967: 359; Smith, D.R. 1979: 1437; Bolton, 1995b: 221; Radchenko, 2016: 368.

***aphidicola*.** *Formica aphidicola* Walsh, 1863: 310 (w.q.m.) U.S.A. (no state data).

[Note: type-locality Illinois: Rock I., after Wheeler, W.M. 1910e: 240.]

Wheeler, G.C. & Wheeler, J. 1953c: 150 (l.).

Combination in *Lasius*: Mayr, 1886d: 429;

combination in *Lasius (Chthonolasius)*: Ruzsky, 1912: 633; Ruzsky, 1914a: 61.

As unavailable (infrasubspecific) name: Emery, 1893i: 640; Wheeler, W.M. 1900c: 47; Wheeler, W.M. 1904e: 305; Wheeler, W.M. 1905f: 397; Wheeler, W.M. 1906b: 13; Wheeler, W.M. 1910e: 239; Wheeler, W.M. 1910g: 569; Wheeler, W.M. 1916k: 172; Wheeler, W.M. 1916m: 593; Wheeler, W.M. 1917a: 528; Wheeler, W.M. 1917h: 167; Wheeler, W.M. 1917i: 463; Emery, 1925b: 235; Smith, M.R. 1928c: 277; Dennis, 1938: 296; Wing, 1939: 164; Wesson, L.G. & Wesson, R.G. 1940: 101; Cole, 1942: 375; Smith, M.R. 1951a: 852.

Junior synonym of *flavus*: Mayr, 1886d: 429; Cresson, 1887: 255.

Junior synonym of *umbratus*: Wilson, 1955a: 150; Smith, M.R. 1958c: 150; Smith, D.R. 1979: 1439; Bolton, 1995b: 221; Coovert, 2005: 127; Radchenko, 2016: 373.

Subspecies of *umbratus*: Emery, in Dalla Torre, 1893: 182; Wheeler, W.M. 1908g: 406; Buren, 1944a: 297; Wheeler, G.C. & Wheeler, E.W. 1944: 257; Creighton, 1950a: 425.

Status as species: Mayr, 1863: 411; Schär, Talavera, *et al.* 2018: 6.

Senior synonym of *epinotalis*: Schär, Talavera, *et al.* 2018: 6.

arizonicus. *Lasius (Acanthomyops) interjectus* subsp. *arizonicus* Wheeler, W.M. 1917a: 532 (w.) U.S.A. (Arizona).

[*Lasius (Acanthomyops) interjectus* subsp. *arizonicus* Wheeler, W.M. 1916k: 172. *Nomen nudum*.]

Wing, 1968: 90 (q.m.).

Combination in *Acanthomyops*: Creighton, 1950a: 431;

combination in *Lasius*: Ward, 2005: 13.

Subspecies of *interjectus*: Emery, 1925b: 237; Cole, 1937b: 137; Creighton, 1950a: 431; Smith, M.R. 1951a: 853.

Status as species: Buren, 1950: 184; Wing, 1968: 90 (redescription); Hunt & Snelling, 1975: 22; Smith, D.R. 1979: 1440; Bolton, 1995b: 53; Mackay & Mackay, 2002: 271.

atopus. *Lasius (Chthonolasius) atopus* Cole, 1958a: 75, fig. 1 (w.) U.S.A. (California).

Status as species: Smith, M.R. 1967: 368; Smith, D.R. 1979: 1438; Wheeler, G.C. & Wheeler, J. 1986g: 65 (in key); Bolton, 1995b: 221; Ward, 2005: 64.

austriacus. *Lasius austriacus* Schlick-Steiner, in Schlick-Steiner, *et al.* 2003: 726, figs. 1-6 (w.q.m.) AUSTRIA, CZECH REPUBLIC.

Status as species: Steiner, *et al.* 2004: 24; Werner & Wiezik, 2007: 153; Kiran & Karaman, 2012: 12; Borowiec, L. 2014: 84; Lebas, *et al.* 2016: 224; Seifert, 2018: 280.

balcanicus. *Lasius (Chthonolasius) balcanicus* Seifert, 1988a: 152, figs. 9, 19, 28, 37, 42, 46-52 (w.q.m.) BULGARIA, HUNGARY, AUSTRIA, UKRAINE.

Status as species: Seifert, 1990: 10; Bolton, 1995b: 221; Gallé, *et al.* 1998: 217; Csösz, & Markó, 2005: 231; Markó, Sipos, *et al.* 2006: 68; Brácko, 2007: 20; Werner & Wiezik, 2007: 142; Lapeva-Gjonova, *et al.* 2010: 36; Csösz, *et al.* 2011: 58; Kiran & Karaman, 2012: 12; Borowiec, L. 2014: 84; Brácko, *et al.* 2014: 19; Lebas, *et al.* 2016: 206; Radchenko, 2016: 380; Seifert, 2018: 287.

balearicus. *Lasius (Lasius) balearicus* Talavera, Espadaler & Vila, 2015: 597, fig. 4a-c (w.) SPAIN (Balearic Is: Mallorca I.).

Status as species: Lebas, *et al.* 2016: 216.

barbarus. *Lasius alienus* var. *barbarus* Santschi, 1931a: 11.

[First available use of *Lasius niger* st. *lasiooides* var. *barbara* Santschi, 1921e: 170 (w.) MOROCCO, TUNISIA; unavailable (infrasubspecific) name.]

As unavailable (infrasubspecific) name: Emery, 1925b: 230; Bernard, 1945: 137.

Subspecies of *brunneus*: Santschi, 1936c: 208.

Junior synonym of *alienus*: Wilson, 1955a: 78; Smith, D.R. 1979: 1435.

Junior synonym of *lasioides*: Seifert, 1992b: 8; Bolton, 1995b: 221.

belgarum. *Formicina belgarum* Bondroit, 1918: 31, fig. 17 (w.q.) BELGIUM.

Combination in *Lasius (Chthonolasius)*: Emery, 1925b: 234.

As unavailable (infrasubspecific) name: Emery, 1925b: 234.

Status as species: Bondroit, 1920a: 143.

Subspecies of *umbratus*: Stärcke, 1926: 122 (in key); Stärcke, 1937: 57.

Subspecies of *mixtus*: Stitz, 1939: 299.

Junior synonym of *umbratus*: Wilson, 1955a: 150; Bernard, 1967: 363; Smith, D.R. 1979: 1439; Seifert, 1988a: 150; Seifert, 1990: 11; Bolton, 1995b: 221; Casevitz-Weulersse & Galkowsky, 2009: 484; Radchenko, 2016: 373.

bicornis. *Formica bicornis* Foerster, 1850a: 41 (q.) GERMANY.

Forel, 1874: 47 (w.); Forel, 1915d: 56 (m.).

Combination in *Lasius*: Mayr, 1861: 51;

combination in *Lasius (Lasius)*: Forel, 1915d: 52;

combination in *Formicina*: Emery, 1916a: 63; Bondroit, 1918: 34;

combination in *Formicina (Formicina)*: Emery, 1916b: 242; Menozzi, 1918: 87;

combination in *Chthonolasius*: Kulmatycki, 1922: 79;

combination in *Acanthomyops*: Ruzsky, 1925b: 45;

combination in *Acanthomyops (Chthonolasius)*: Donisthorpe, 1930a: 225; Donisthorpe, 1950e: 1064;

combination in *Lasius (Chthonolasius)*: Ruzsky, 1912: 633; Ruzsky, 1914a: 61; Emery, 1925b: 232; Wilson, 1955a: 183.

Subspecies of umbratus: Forel, 1874: 47; Emery & Forel, 1879: 453; Mayr, 1886d: 430; Forel, 1886f: 208; Emery, in Dalla Torre, 1893: 191 (footnote); Forel, 1904b: 387; Ruzsky, 1905b: 290; Bondroit, 1910: 485; Stitz, 1914: 87; Escherich, 1917: 333 (in key); Soudek, 1922: 73; Karavaiev, 1927a: 301.

Status as species: Schenck, 1852: 128; Mayr, 1855: 369 (footnote); Smith, F. 1858b: 8; Mayr, 1863: 425; Roger, 1863b: 12; Emery, 1869b: 9; André, 1882b: 196 (in key); Dalla Torre, 1893: 182; Ruzsky, 1902d: 15; Wasmann, 1906: 114 (in key); Bondroit, 1912: 352; Ruzsky, 1914a: 61; Forel, 1915d: 52 (in key); Emery, 1916b: 242; Bondroit, 1918: 34; Bondroit, 1920a: 144; Emery, 1922b: 13; Kulmatycki, 1922: 79; Emery, 1925b: 232; Karavaiev, 1926e: 195; Vandel, 1926: 197; Stärcke, 1926: 122 (in key); Karavaiev, 1927c: 279 (in key); Kuznetsov-Ugamsky, 1929b: 37; Grandi, 1935: 103; Stärcke, 1937: 55; Stitz, 1939: 302; Novák & Sadil, 1941: 103 (in key); Stärcke, 1944a: 153; Ruzsky, 1946: 70; Donisthorpe, 1950e: 1064; Creighton, 1950a: 421; Wilson, 1955a: 183 (redescription); Collingwood, 1963: 157 (in key); Samšiňák, 1964: 157; Bernard, 1967: 365 (redescription); Cagniant, 1968a: 146; Kutter, 1968a: 61; Kutter, 1968b: 206; Cagniant, 1970c: 38; Baroni Urbani, 1971c: 211; Collingwood, 1971: 166; Pisarski, 1975: 37; van Boven, 1977: 149; Kutter, 1977c: 231; Arnol'di & Dlussky, 1978: 555 (in key); Collingwood, 1979: 105; Collingwood, 1982: 293; Agosti & Collingwood, 1987a: 58; Agosti & Collingwood, 1987b: 282 (in key); Seifert, 1988a: 161 (redescription); Seifert, 1990: 10; Casevitz-Weulersse, 1990c: 434; Atanassov & Dlussky, 1992: 251; Arakelian, 1994: 118; Bolton, 1995b: 221; Douwes, 1995: 94; Poldi, *et al.* 1995: 8; Espadaler, 1997b: 28; Gallé, *et al.* 1998: 217; Czechowski, *et al.* 2002: 116; Csösz, & Markó, 2005: 231; Bračko, 2006: 148; Markó, Sipos, *et al.* 2006: 68; Petrov, 2006: 107 (in key); Bračko, 2007: 20; Seifert, 2007: 286; Werner & Wiezik, 2007: 142; Gratiashvili & Barjadze, 2008: 135; Casevitz-Weulersse & Galkowsky, 2009: 483; Lapeva-Gjonova, *et al.* 2010: 36; Boer, 2010: 38; Csösz, *et al.* 2011: 58; Legakis, 2011: 26; Borowiec, L. & Salata, 2012: 498; Czechowski, *et al.* 2012: 285; Kiran & Karaman, 2012: 12; Bharti & Gul, 2013: 56 (in key); Borowiec, L. 2014: 84; Bharti, Guénard, *et al.* 2016: 27; Lebas, *et al.* 2016: 206; Radchenko, 2016: 378; Salata & Borowiec, 2018c: 45; Seifert, 2018: 290.

Senior synonym of incisa: Smith, F. 1858b: 8; Roger, 1863b: 12; Forel, 1874: 97 (in list); Emery & Forel, 1879: 453 (footnote); Dalla Torre, 1893: 182; Ruzsky, 1905b: 290; Forel, 1915d: 52 (in key); Emery, 1916b: 242; Emery, 1922b: 13; Soudek, 1922: 73; Emery, 1925b: 232; Stärcke, 1937: 55; Seifert, 1988a: 161; Seifert, 1990: 10; Bolton, 1995b: 222; Radchenko, 2016: 378.

Senior synonym of kashmirensis: Wilson, 1955a: 183; Bolton, 1995b: 222; Radchenko, 2016: 378.

Senior synonym of *microgyna*: Vandel, 1926: 197; Wilson, 1955a: 183; Bernard, 1967: 365; Seifert, 1990: 10; Bolton, 1995b: 222; Casevitz-Weulersse & Galkowsky, 2009: 483; Radchenko, 2016: 378.

Senior synonym of *neapolitana*: Wilson, 1955a: 183; Bernard, 1967: 365; Baroni Urbani, 1971c: 211; Seifert, 1990: 10; Bolton, 1995b: 222.

Senior synonym of *oertzeni*: Wilson, 1955a: 183; Bernard, 1967: 365; Seifert, 1990: 10; Bolton, 1995b: 222; Legakis, 2011: 26; Radchenko, 2016: 378.

bombycina. *Lasius bombycina* Seifert & Galkowski, 2016: 56, figs. 10-12 (w.) TURKEY, AUSTRIA, BULGARIA, GREECE, HUNGARY, SLOVAKIA.

Status as species: Salata & Borowiec, 2018b: 157 (in key); Salata & Borowiec, 2018c: 45; Seifert, 2018: 271.

brevicornis. *Lasius brevicornis* Emery, 1893i: 639, pl. 22, fig. 22 (w.q.m.) U.S.A. (District of Columbia, New Jersey, Dakota, Virginia, Florida).

[Note: type-locality designated as District of Columbia by Creighton, 1950a: 421.]

Combination in *Lasius (Formicina)*: Wheeler, W.M. 1916k: 172; Wheeler, W.M. 1917i: 463;

combination in *Lasius (Lasius)*: Emery, 1925b: 231.

Junior synonym of *flavus*: Wilson, 1955a: 112; Smith, M.R. 1958c: 148; Smith, D.R. 1979: 1437; Bolton, 1995b: 222; Coovert, 2005: 124; Radchenko, 2016: 368.

Status as species: Wheeler, W.M. 1904e: 305; Wheeler, W.M. 1905f: 396; Wheeler, W.M. 1906b: 13; Wheeler, W.M. 1908f: 623; Wheeler, W.M. 1910g: 569; Wheeler, W.M. 1916k: 172; Wheeler, W.M. 1916m: 593; Wheeler, W.M. 1917a: 526; Wheeler, W.M. 1917i: 463; Emery, 1925b: 231; Smith, M.R. 1930a: 5; Smith, M.R. 1931a: 23; Wheeler, W.M. 1932a: 17; Menozzi, 1932b: 311; Cole, 1936a: 37; Cole, 1937b: 137; Wing, 1939: 164; Wesson, L.G. & Wesson, R.G. 1940: 100; Wheeler, G.C. & Wheeler, E.W. 1944: 252; Buren, 1944a: 296; Creighton, 1950a: 421; Smith, M.R. 1951a: 851; Schär, Talavera, *et al.* 2018: 6.

Senior synonym of *claripennis*: Schär, Talavera, *et al.* 2018: 6.

Senior synonym of *helvus*: Schär, Talavera, *et al.* 2018: 6.

Senior synonym of *microps*: Schär, Talavera, *et al.* 2018: 6.

breviscapus. *Lasius (Lasius) breviscapus* Seifert, 1992b: 24, fig. 17 (w.) INDIA (Himachal Pradesh).

Status as species: Bolton, 1995b: 222; Bharti & Gul, 2013: 57 (in key); Bharti, Guénard, *et al.* 2016: 27.

brunnens, misspelling, see under *brunneus*.

brunneocalienus. *Lasius niger* r. *alienus* var. *brunneocalienus* Kulmatycki, 1922: 81 (no sex/caste indicated) POLAND; unavailable (infrasubspecific) name.

Declared as unavailable (infrasubspecific) name: Bolton, 1995b: 222.

brunneoemarginatus. *Lasius niger* var. *brunneoemarginatus* Forel, 1874: 47 (w.) SWITZERLAND.

[Misspelled as *bruneoemarginatus* by Dalla Torre, 1893: 184.]

As unavailable (infrasubspecific) name: Lameere, 1892: 64.

Subspecies of *emarginatus*: Dalla Torre, 1893: 184; Emery, 1925b: 229; Karavaiev, 1926e: 193; Novák & Sadil, 1941: 101 (in key).

Junior synonym of *emarginatus*: Wilson, 1955a: 89; Bernard, 1967: 357; Seifert, 1992b: 34; Bolton, 1995b: 222; Radchenko, 2016: 367.

brunneoides. *Lasius niger* var. *brunneoides* Forel, 1874: 47 (w.) SWITZERLAND; unavailable name.

[Unavailable name (published in synonymy).]

Material referred to *emarginatus* by Wilson, 1955a: 89; Seifert, 1992b: 34.

brunneus. *Formica brunnea* Latreille, 1798: 41 (w.q.) FRANCE.

[Misspelled as *bruneus* by Dours, 1873: 165, Dalla Torre, 1893: 182; misspelled as *brunnens* by Donisthorpe, 1950e: 1064.]

Mayr, 1855: 358 (m.); Lorite, *et al.* 1998: 28 (k.).

Combination in *Lasius*: Mayr, 1861: 50 (in key); Müller, 1923b: 127;

combination in *Donisthorpea*: Donisthorpe, 1915d: 347;

combination in *Formicina* (*Donisthorpea*): Emery, 1916b: 241;

combination in *Formicina*: Bondroit, 1918: 26;

combination in *Lasius* (*Donisthorpea*): Kulmatycki, 1922: 79;

combination in *Acanthomyops*: Kuznetsov-Ugamsky, 1927e: 188;

combination in *Acanthomyops* (*Donisthorpea*): Donisthorpe, 1927a: 8; Donisthorpe, 1926b: 18; Donisthorpe, 1950e: 1064;

combination in *Lasius* (*Lasius*): Ruzsky, 1912: 633; Forel, 1915d: 52; Emery, 1925b: 228;

Karavaiev, 1936: 198; Wilson, 1955a: 47.

Subspecies of niger: Forel, 1874: 47 (in key); Emery & Forel, 1879: 452; Forel, 1889: 256; Lameere, 1892: 64; Forel, 1892i: 307; Emery, in Dalla Torre, 1893: 187 (footnote); Ruzsky, 1896: 71; Ruzsky, 1905b: 310; Wheeler, W.M. 1906c: 321; Yano, 1910: 421; Bondroit, 1910: 486; Stitz, 1914: 85; Emery, 1914d: 159; Emery, 1916b: 241; Escherich, 1917: 333 (in key); Santschi, 1919e: 246; Kuznetsov-Ugamsky, 1923: 243; Kuznetsov-Ugamsky, 1927e: 188; Gösswald, 1932: 60; Azuma, 1951: 88; Azuma, 1953: 4; Azuma, 1955: 80.

Status as species: Latreille, 1802c: 168; Jurine, 1807: 273; Stephens, 1829: 357; Losana, 1834: 319; Schilling, 1839: 55; Smith, F. 1851: 2; Schenck, 1852: 126; Mayr, 1855: 358 (redescription); Smith, F. 1855a: 107; Nylander, 1856b: 68; Smith, F. 1857b: 39; Gredler, 1858: 13; Smith, F. 1858a: 278; Smith, F. 1858b: 7; Mayr, 1861: 50 (in key); Smith, F. 1861a: 33; Mayr, 1862: 700; Roger, 1863b: 11; Mayr, 1863: 425; Emery, 1869b: 9; Emery, 1870: 194; Dours, 1873: 165; André, 1874: 180 (in key); Emery, 1878b: 47; André, 1881b: 60; André, 1882b: 193 (in key); Cresson, 1887: 257; Nasonov, 1889: 23; Dalla Torre, 1893: 182; Forel, 1901h: 66; Ruzsky, 1902d: 17; Wasmann, 1906: 114 (in key); Bondroit, 1912: 352; Ruzsky, 1914a: 61; Forel, 1915d: 52 (in key); Donisthorpe, 1915d: 347; Bondroit, 1918: 26; Crawley, 1920b: 177; Kulmatycki, 1922: 79; Soudek, 1922: 70; Müller, 1923a: 74; Müller, 1923b: 127; Emery, 1925b: 228; Donisthorpe, 1926b: 18; Santschi, 1926f: 288; Stärcke, 1926: 124 (in key); Donisthorpe, 1927a: 8; Donisthorpe, 1927b: 247; Karavaiev, 1927a: 300; Karavaiev, 1927c: 279 (in key); Kuznetsov-Ugamsky, 1927e: 188; Lomnicki, 1928: 8; Finzi, 1930d: 316; Karavaiev, 1930b: 147; Karavaiev, 1931e: 214; Santschi, 1931a: 11; Santschi, 1932c: 72; Santschi, 1932g: 5; Arnol'di, 1933b: 603 (in key); Grandi, 1935: 103; Karavaiev, 1936: 198 (redescription); Ruzsky, 1936: 90; Menozzi, 1939a: 313; Holgersen, 1940: 185; Novák & Sadil, 1941: 101 (in key); Holgersen, 1943b: 174 (in key); Holgersen, 1944: 180; Stärcke, 1944a: 155; van Boven, 1947: 186 (in key); Arnol'di, 1948: 212 (in list); Donisthorpe, 1950e: 1064; Chapman & Capco, 1951: 202; Consani & Zangheri, 1952: 44; Wilson, 1955a: 47 (redescription); Ceballos, 1956: 315; Bernard, 1967: 358 (redescription); Pisarski, 1967: 415; Kutter, 1968a: 61; Collingwood & Yarrow, 1969: 79; Baroni Urbani, 1971c: 202; Collingwood, 1971: 165; Banert & Pisarski, 1972: 353; Bourne, 1973: 23; Bolton & Collingwood, 1975: 7 (in key); Pisarski, 1975: 33; Azuma, 1977: 117; van Boven, 1977: 143; Kutter, 1977c: 228; Arnol'di & Dlussky, 1978: 555 (in key); Collingwood, 1978: 89 (in key); Collingwood, 1979: 98; Collingwood, 1982: 285; Agosti & Collingwood, 1987a: 58; Agosti & Collingwood, 1987b: 282 (in key); Kugler, J. 1988: 259; Casevitz-Weulersse, 1990c: 429; Atanassov & Dlussky, 1992: 238; Seifert, 1992b: 6 (redescription); Arakelian, 1994: 118; Radchenko, 1994b: 115 (in key); Bolton, 1995b: 222; Douwes, 1995: 94; Poldi, *et al.* 1995: 7; Espadaler, 1997b: 28; Collingwood & Prince, 1998: 23 (in key); Gallé, *et al.* 1998: 217; Czechowski, *et al.* 2002: 104; Karaman, M.G. & Karaman, 2003: 52; Csösz, & Markó, 2005: 230; Karaman, G.S. & Karaman, 2005:

57; Bračko, 2006: 148; Markó, Sipos, *et al.* 2006: 68; Petrov, 2006: 107 (in key); Bračko, 2007: 20; Seifert, 2007: 277; Werner & Wiezik, 2007: 143; Zryanin & Zryanina, 2007: 234; Gratiashvili & Barjadze, 2008: 136; Paknia, *et al.* 2008: 154; Casevitz-Weulersse & Galkowsky, 2009: 483; Vonshak, *et al.* 2009: 40; Lapeva-Gjonova, *et al.* 2010: 36; Boer, 2010: 42; Csösz, *et al.* 2011: 58; Karaman, M.G. 2011: 85; Legakis, 2011: 26; Borowiec, L. & Salata, 2012: 498; Czechowski, *et al.* 2012: 261; Kiran & Karaman, 2012: 12; Bharti & Gul, 2013: 57 (in key); Borowiec, L. 2014: 84; Bračko, *et al.* 2014: 19; Tohmé, G. & Tohmé, 2014: 139; Bharti, Guénard, *et al.* 2016: 27; Lebas, *et al.* 2016: 212; Radchenko, 2016: 366; Salata & Borowiec, 2018c: 45; Seifert, 2018: 278.

Senior synonym of alienobrunneus: Stärcke, 1944a: 157; Wilson, 1955a: 47; Bernard, 1967: 358; Pisarski, 1975: 33; Kutter, 1977c: 14; Seifert, 1992b: 6; Arakelian, 1994: 118; Bolton, 1995b: 222; Czechowski, *et al.* 2002: 104; Czechowski, *et al.* 2012: 261; Radchenko, 2016: 366.

Senior synonym of nigrobrunneus: Wilson, 1955a: 47; Bernard, 1967: 358; Seifert, 1992b: 6; Bolton, 1995b: 222; Radchenko, 2016: 366.

Senior synonym of pallida: Latreille, 1802c: 169; Stephens, 1829: 357; Smith, F. 1851: 2; Wilson, 1955a: 47; Bernard, 1967: 358; Pisarski, 1975: 33; Arakelian, 1994: 118; Bolton, 1995b: 222; Czechowski, *et al.* 2012: 261.

Senior synonym of timida: Nylander, 1856b: 68; Smith, F. 1858b: 7; Roger, 1859: 239; Mayr, 1861: 50 (in key); Mayr, 1863: 425; Roger, 1863b: 11; André, 1874: 202 (in list); Forel, 1874: 97 (in list); Emery & Forel, 1879: 452; Dalla Torre, 1893: 182; Ruzsky, 1905b: 310; Forel, 1915d: 52 (in key); Müller, 1923b: 127; Emery, 1925b: 228; Donisthorpe, 1927b: 247; Karavaiev, 1936: 198; Baroni Urbani, 1971c: 203; Pisarski, 1975: 33; Seifert, 1992b: 6; Bolton, 1995b: 222; Czechowski, *et al.* 2002: 104; Czechowski, *et al.* 2012: 261; Radchenko, 2016: 366.

buccatus. *Lasius (Dendrolasius) buccatus* Stärcke, 1942c: xxvii, figs. 6, 7 (q.m.) SLOVENIA, BOSNIA.

Status as species: Wilson, 1955a: 145 (redescription); Bolton, 1995b: 222; Borowiec, L. 2014: 84.

bureni. *Acanthomyops bureni* Wing, 1968: 135, figs. 159-167 (w.q.m.) U.S.A. (Wisconsin). Combination in *Lasius*: Ward, 2005: 13.

Status as species: Smith, D.R. 1979: 1440; Bolton, 1995b: 53.

californicus. *Lasius (Acanthomyops) interjectus* subsp. *californicus* Wheeler, W.M. 1917a: 531 (w.q.) U.S.A. (California).

[*Lasius (Acanthomyops) interjectus* subsp. *californicus* Wheeler, W.M. 1916k: 172. *Nomen nudum.*]

Wing, 1968: 85 (m.).

Combination in *Acanthomyops*: Creighton, 1950a: 430; combination in *Lasius*: Ward, 2005: 13.

Subspecies of interjectus: Emery, 1925b: 237; Smith, M.R. 1951a: 853.

Subspecies of claviger: Creighton, 1950a: 430; Smith, M.R. 1958c: 150.

Status as species: Buren, 1950: 185; Wing, 1968: 85 (redescription); Smith, D.R. 1979: 1440; Wheeler, G.C. & Wheeler, J. 1986g: 68; Bolton, 1995b: 53; Ward, 2005: 64.

capitatus. *Acanthomyops fuliginosus* subsp. *capitatus* Kuznetsov-Ugamsky, 1928b: 18 (w.) RUSSIA (Primorsky Region).

[*Acanthomyops fuliginosus* subsp. *capitatus* Kuznetsov-Ugamsky, 1927e: 187; *nomen nudum.*]

Combination in *Lasius*: Wilson, 1955a: 138.

Junior synonym of *fuliginosus*: Wilson, 1955a: 138.

Status as species: Kupyanskaya, 1989: 785 (redescription); Bolton, 1995b: 222; Imai, *et al.* 2003: 60; Lin & Wu, 2003: 61; Radchenko, 2005a: 85 (redescription).

**capito*. **Formica capito* Heer, 1867: 14, pl. 1, fig. 13 (q.) CROATIA (Miocene).

Status as species: Scudder, 1891: 699; Dalla Torre, 1893: 193; Handlirsch, 1907: 863; Bolton, 1995b: 192.

Junior synonym of **globularis*: Dlussky & Putyatina, 2014: 264.

carniolicus. *Lasius carniolicus* Mayr, 1861: 51 (diagnosis in key) (q.) SLOVENIA.

Forel, 1886f: 206 (w.m.).

Combination in *Lasius (Lasius)*: Forel, 1915d: 51;

combination in *Formicina (Formicina)*: Emery, 1916b: 242;

combination in *Formicina*: Bondroit, 1918: 36;

combination in *Acanthomyops*: Ruzsky, 1925b: 45; Kuznetsov-Ugamsky, 1927e: 187;

combination in *Chthonolasius*: Ruzsky, 1936: 90; Ruzsky, 1946: 70;

combination in *Lasius (Chthonolasius)*: Ruzsky, 1914a: 59; Müller, 1923b: 132; Wilson, 1955a: 189;

combination in *Lasius (Austrolasius)*: Faber, 1967: 74.

Status as species: Roger, 1863b: 11; Mayr, 1863: 425; Emery & Forel, 1879: 453; André, 1882b: 198 (in key); Forel, 1886f: 206; Dalla Torre, 1893: 183; Ruzsky, 1896: 71; Ruzsky, 1902d: 15; Ruzsky, 1905b: 271; Forel, 1908a: 16; Forel, 1915d: 51 (in key); Emery, 1916b: 242; Bondroit, 1918: 36; Soudek, 1922: 72; Müller, 1923b: 132; Emery, 1925b: 233; Ruzsky, 1925b: 45; Stärcke, 1926: 121 (in key); Vandel, 1926: 197; Kuznetsov-Ugamsky, 1927e: 187; Kuznetsov-Ugamsky, 1928b: 23; Menozzi, 1928a: 129; Kuznetsov-Ugamsky, 1929a: 28; Karavaiev, 1929b: 212; Karavaiev, 1930b: 148; Karavaiev, 1931e: 214; Arnol'di, 1933b: 603 (in key); Finzi, 1933: 165; Zimmermann, 1935: 53; Ruzsky, 1936: 90; Stärcke, 1937: 58; Menozzi, 1939a: 313; Novák & Sadil, 1941: 102 (in key); Ruzsky, 1946: 70; Consani & Zangheri, 1952: 44; Wilson, 1955a: 189 (redescription); Ceballos, 1956: 315; Collingwood, 1963: 157 (in key); Bernard, 1967: 365 (redescription); Kutter, 1968a: 61; Kutter, 1968b: 206; Baroni Urbani, 1971c: 207; Collingwood, 1971: 166; Pisarski, 1975: 39; Tarbinsky, 1976: 143 (redescription); Kutter, 1977c: 230; Arnol'di & Dlussky, 1978: 555 (in key); Collingwood, 1978: 90 (in key); Collingwood, 1979: 108; Collingwood, 1982: 292; Agosti & Collingwood, 1987a: 58; Agosti & Collingwood, 1987b: 281 (in key); Kupyanskaya, 1990: 221; Mei, 1992a: 420; Atanassov & Dlussky, 1992: 252; Radchenko, 1994b: 115 (in key); Bolton, 1995b: 222; Douwes, 1995: 94; Poldi, *et al.* 1995: 8; Espadaler, 1997b: 28; Gallé, *et al.* 1998: 217; Bračko, 2006: 148; Petrov, 2006: 106 (in key); Schultz, R. *et al.* 2006: 205; Bračko, 2007: 20; Seifert, 2007: 288; Zryannin & Zryannina, 2007: 234; Casevitz-Weulersse & Galkowsky, 2009: 483; Lapeva-Gjonova, *et al.* 2010: 37; Boer, 2010: 34; Csösz, *et al.* 2011: 58; Legakis, 2011: 26; Borowiec, L. & Salata, 2012: 499; Guénard & Dunn, 2012: 33; Kiran & Karaman, 2012: 12; Bharti & Gul, 2013: 56 (in key); Borowiec, L. 2014: 85; Lebas, *et al.* 2016: 202; Radchenko, 2016: 370; Salata & Borowiec, 2018c: 45; Seifert, 2018: 291.

Senior synonym of kusnezovi: Wilson, 1955a: 189; Bolton, 1995b: 222; Radchenko, 2016: 370.

casevitzi. *Lasius casevitzi* Seifert & Galkowski, 2016: 54, figs. 7-9 (w.) FRANCE (Corsica).

cereomicans. *Lasius umbratus* subsp. *distinguendus* var. *cereomicans* Stärcke, 1937: 49 (w.q.m.) ITALY; unavailable (infrasubspecific) name.

Declared as unavailable (infrasubspecific) name: Bolton, 1995b: 222.

Material referred to *umbratus* by Wilson, 1955a: 152; Smith, D.R. 1979: 1439.

Material referred to *distinguendus* by Seifert, 1990: 10.

***chambonensis.** **Lasius chambonensis* Théobald, in Piton & Théobald, 1935: 82, pl. 5, fig. 5 (wing) FRANCE (Mio-Pliocene).

Status as species: Burnham, 1979: 114; Bolton, 1995b: 222.

cinereus. *Lasius (Lasius) cinereus* Seifert, 1992b: 33, fig. 25 (w.) SPAIN.

Status as species: Bolton, 1995b: 222; Espadaler, 1997b: 28; Casevitz-Weulersse & Galkowsky, 2009: 483; Borowiec, L. 2014: 85; Lebas, *et al.* 2016: 216.

citrinus. *Lasius bicornis* var. *citrina* Emery, 1922b: 12 (w.) ITALY.

Replacement name for *Formica affinis* Schenck, 1852: 62 [Junior primary homonym of *Formica affinis* Leach, 1825: 290.]

[Note: *citrina* junior synonym of *affinis* Schenck (synonymy by Seifert, 1990: 7, 10); hence *citrinus* first available replacement name.]

Combination in *Lasius (Chthonolasius)*: Emery, 1925b: 232.

Junior synonym of *umbratus*: Wilson, 1955a: 151; Bernard, 1967: 363; Smith, D.R. 1979: 1439.

Junior synonym of *affinis* Schenck: Seifert, 1990: 7, 10.

Subspecies of bicornis: Emery, 1925b: 232; Stärcke, 1937: 55.

Status as species: Seifert, 1990: 7; Bolton, 1995b: 222; Poldi, *et al.* 1995: 8; Czechowski, *et al.* 2002: 115; Radchenko, 2005b: 165; Karaman, G.S. & Karaman, 2005: 57; Markó, Sipos, *et al.* 2006: 68; Brácko, 2007: 20; Seifert, 2007: 285; Werner & Wiezik, 2007: 154; Zryanin & Zryanina, 2007: 235; Gratiashvili & Barjadze, 2008: 135; Casevitz-Weulersse & Galkowsky, 2009: 483; Lapeva-Gjonova, *et al.* 2010: 37; Boer, 2010: 38; Csösz, *et al.* 2011: 58; Karaman, M.G. 2011: 92; Legakis, 2011: 26; Borowiec, L. & Salata, 2012: 499; Czechowski, *et al.* 2012: 281; Borowiec, L. 2014: 85; Lebas, *et al.* 2016: 206; Radchenko, 2016: 376; Salata & Borowiec, 2018c: 45; Seifert, 2018: 290.

claripennis. *Lasius (Formicina) flavus* subsp. *claripennis* Wheeler, W.M. 1917a: 527 (w.q.m.) CANADA (Alberta, Saskatchewan), U.S.A. (Washington, Colorado).

[*Lasius (Formicina) flavus* subsp. *claripennis* Wheeler, W.M. 1916k: 172. *Nomen nudum.*]

Subspecies of *flavus*: Menozzi, 1932b: 311; Cole, 1942: 375; Smith, M.R. 1951a: 851.

Junior synonym of *microps*: Creighton, 1950a: 422.

Junior synonym of *flavus*: Wilson, 1955a: 112; Smith, M.R. 1958c: 149; Smith, D.R. 1979: 1437; Bolton, 1995b: 223; Radchenko, 2016: 368.

Junior synonym of *brevicornis*: Schär, Talavera, *et al.* 2018: 6.

claviger. *Formica clavigera* Roger, 1862a: 241, pl. 1, fig. 13 (q.) U.S.A. (Pennsylvania).

Mayr, 1870b: 950 (w.m.); Wheeler, G.C. & Wheeler, J. 1953c: 155 (l.).

Combination in *Acanthomyops*: Mayr, 1862: 700;

combination in *Lasius*: Mayr, 1870b: 950; Cresson, 1887: 256;

combination in *Lasius (Acanthomyops)*: Emery, 1893i: 642; Emery, 1925b: 237;

combination in *Acanthomyops*: Donisthorpe, 1916c: 276;

combination in *Lasius*: Ward, 2005: 13.

Status as species: Mayr, 1862: 700; Mayr, 1863: 394; Roger, 1863b: 11; Mayr, 1870b: 950; Mayr, 1886d: 430; Cresson, 1887: 257; Dalla Torre, 1893: 183; Emery, 1893i: 642; Wheeler, W.M. 1904e: 305; Wheeler, W.M. 1905f: 398; Wheeler, W.M. 1906b: 14; Wheeler, W.M. 1908f: 623; Wheeler, W.M. 1910g: 569; Donisthorpe, 1916c: 276; Wheeler, W.M. 1916k: 172; Wheeler, W.M. 1916m: 594; Wheeler, W.M. 1917a: 533; Wheeler, W.M. 1917i: 463; Emery, 1925b: 237; Cheesman & Crawley, 1928: 525; Smith, M.R. 1930a: 5; Smith, M.R. 1931a: 23; Wheeler, W.M. 1932a: 16; Wheeler, W.M. 1932d: 18; Dennis, 1938: 296; Wing, 1939: 164; Wheeler, G.C. & Wheeler, E.W. 1944: 256; Buren, 1944a: 298; Creighton, 1950a: 429; Buren, 1950: 189 (in key); Smith, M.R. 1951a: 853; Cole, 1954g: 284; Smith, M.R. 1958c: 150; Carter, 1962a: 7 (in list); Beck, *et al.* 1967: 68; Smith, M.R. 1967: 368; Wing, 1968: 67 (redescription); Regnier & Wilson, 1968: 955; Smith, D.R. 1979: 1440; DuBois & LaBerge, 1988: 145; Wheeler, G.C., *et al.* 1994: 305;

Bolton, 1995b: 53; Deyrup, 2003: 44; Coovert, 2005: 129; Ward, 2005: 13; Ellison, *et al.* 2012: 190; Deyrup, 2017: 207.

Senior synonym of *parvula*: Wing, 1968: 67; Smith, D.R. 1979: 1440; Bolton, 1995b: 53; Coovert, 2005: 129.

clavigeroides. *Lasius (Acanthomyops) clavigeroides* Buren, 1942: 406 (w.q.m.) U.S.A. (Wisconsin).

Status as species: Smith, M.R. 1951a: 853.

Subspecies of *subglaber*: Buren, 1950: 185.

Junior synonym of *subglaber*: Creighton, 1950a: 433; Smith, M.R. 1958c: 151; Wing, 1968: 121; Smith, D.R. 1979: 1442; Bolton, 1995b: 53.

colei. *Acanthomyops colei* Wing, 1968: 88, figs. 64-67 (w.m.) U.S.A. (Arizona, New Mexico).

Combination in *Lasius*: Ward, 2005: 13.

Status as species: Hunt & Snelling, 1975: 22; Smith, D.R. 1979: 1441; Wheeler, G.C. & Wheeler, J. 1986g: 68 (in key); Bolton, 1995b: 53; Mackay & Mackay, 2002: 271; Ward, 2005: 13.

coloradensis. *Lasius (Acanthomyops) interjectus* subsp. *coloradensis* Wheeler, W.M. 1917a: 532 (w.q.m.) U.S.A. (Colorado, New Mexico).

[*Lasius (Acanthomyops) interjectus* subsp. *coloradensis* Wheeler, W.M. 1916k: 172. *Nomen nudum*.]

Combination in *Acanthomyops*: Creighton, 1950a: 429;

combination in *Lasius*: Ward, 2005: 13.

Subspecies of *interjectus*: Emery, 1925b: 237; Menozzi, 1932b: 311; Smith, M.R. 1951a: 853.

Subspecies of *claviger*: Creighton, 1950a: 429; Cole, 1954g: 284; Smith, M.R. 1958c: 150; Smith, M.R. 1967: 368.

Status as species: Buren, 1950: 185; Wing, 1968: 78 (redescription); Hunt & Snelling, 1975: 22; Wheeler, G.C. & Wheeler, J. 1977b: 5 (in key); Yensen, *et al.* 1977: 184; Smith, D.R. 1979: 1441; Allred, 1982: 452; Wheeler, G.C. & Wheeler, J. 1986g: 68; Mackay, Lowrie, *et al.* 1988: 104; Bolton, 1995b: 53; Mackay & Mackay, 2002: 272.

coloratus. *Lasius niger* st. *coloratus* Santschi, 1937h: 387 (w.q.) TAIWAN.

Combination in *Lasius* (*Lasius*): Wilson, 1955a: 60.

Junior synonym of *niger*: Wilson, 1955a: 60; Smith, D.R. 1979: 1436; Onoyama, 1980: 199.

Status as species: Seifert, 1992b: 44 (redescription); Bolton, 1995b: 222; Terayama, 2009: 206; Guénard & Dunn, 2012: 33.

creightoni. *Acanthomyops creightoni* Wing, 1968: 141, figs. 177-185 (w.q.m.) U.S.A. (Utah).

Combination in *Lasius*: Ward, 2005: 13.

Status as species: Smith, D.R. 1979: 1441; Bolton, 1995b: 53; Allred, 1982: 452.

crinitus. *Formica crinita* Smith, F. 1858b: 13 (q.) INDIA (no state data, “Northern India”).

Wilson, 1955a: 188 (w.).

Combination in *Lasius*: Mayr, 1862: 700;

combination in *Lasius (Chthonolasius)*: Emery, 1925b: 233; Wilson, 1955a: 187.

Status as species: Mayr, 1862: 700 (redescription); Roger, 1863b: 12; Mayr, 1863: 425; Smith, F. 1871a: 302; Mayr, 1886c: 353; Dalla Torre, 1893: 183; Forel, 1894c: 405; Bingham, 1903: 339; Forel, 1906b: 86; Emery, 1925b: 233; Menozzi, 1939a: 342; Wilson, 1955a: 187 (redescription); Collingwood, 1970: 380; Collingwood, 1982: 293; Bolton, 1995b: 222; Bharti & Gul, 2013: 57 (in key); Bharti, Guénard, *et al.* 2016: 27.

Senior synonym of *hingstoni*: Wilson, 1955a: 187; Bolton, 1995b: 222.

**crispus*. **Lasius crispus* Théobald, in Piton & Théobald, 1935: 68, pl. 5, fig. 3 (wing) FRANCE (Mio-Pliocene).

Status as species: Burnham, 1979: 116; Bolton, 1995b: 222.

crispus. *Lasius (Dendrolasius) crispus* Wilson, 1955a: 144 (w.q.m.) JAPAN.

[Unresolved junior primary homonym of *Lasius crispus* Théobald, in Piton & Théobald, 1935: 68 (Bolton, 1995b: 222).]

Status as species: Yamauchi & Hayashida, 1968: 401 (in key); Collingwood, 1976: 306; Yamauchi, 1979: 174; Onoyama, 1980: 200; Morisita, *et al.* 1991: 28.

Junior synonym of *capitatus*: Kupyanskaya, 1989: 785; Bolton, 1995b: 222; Imai, *et al.* 2003: 60.

Junior synonym of *nipponeensis*: Radchenko, 2005a: 84; Radchenko, 2005b: 171; Terayama, 2009: 206.

crypticus. *Lasius (Lasius) crypticus* Wilson, 1955a: 104 (w.q.m.) U.S.A. (North Dakota, South Dakota, Montana, Idaho, Wyoming, Colorado, New Mexico, Utah, California, Oregon), CANADA (Alberta).

Status as species: Smith, M.R. 1958c: 148; Cole, 1966: 20 (in key); Beck, *et al.* 1967: 70; Smith, M.R. 1967: 367; Yensen, *et al.* 1977: 184; Smith, D.R. 1979: 1436; Allred, 1982: 480; Wheeler, G.C. & Wheeler, J. 1986g: 65; Mackay, Lowrie, *et al.* 1988: 118; Bolton, 1995b: 222; Mackay & Mackay, 2002: 379; Ward, 2005: 64.

dalmatica. *Lasius viehmeyeri* var. *dalmatica* Stärcke, 1937: 53 (q.m.) CROATIA, GREECE, CYPRUS.

Junior synonym of *umbratus*: Wilson, 1955a: 152; Smith, D.R. 1979: 1439.

Junior synonym of *viehmeyeri*: Seifert, 1990: 11; Bolton, 1995b: 222.

dichrous Roger, 1863; see under **LASIOPHANES**.

distinguendus. *Formicina umbrata* subsp. *distinguenda* Emery, 1916a: 64, figs. VI,4; VII,6 (w.q.) ITALY.

[Also described as new, but *Formicina (Formicina) bicornis* subsp. *distinguenda* Emery, 1916b: 242; diagnosis in key: 246.]

Karavaiev, 1936: 214 (m.).

Combination in *Lasius*: Müller, 1923b: 13;

combination in *Lasius (Chthonolasius)*: Emery, 1925b: 234.

Junior synonym of *umbratus*: Wilson, 1955a: 151; Bernard, 1967: 363; Smith, D.R. 1979: 1439.

Subspecies of bicornis: Emery, 1916b: 242; Menozzi, 1918: 87.

Subspecies of umbratus: Emery, 1922b: 13; Emery, 1925b: 234; Karavaiev, 1936: 214 (redescription); Stärcke, 1937: 47; Pisarski, 1975: 39.

Status as species: Bondroit, 1918: 32; Müller, 1923a: 75; Müller, 1923b: 130; Stärcke, 1926: 123 (in key); Zimmermann, 1935: 52; Consani & Zangheri, 1952: 44; Pisarski, 1969a: 231; Pisarski, 1969b: 306; Baroni Urbani, 1971c: 215; Collingwood, 1978: 90 (in key); Collingwood, 1979: 102; Agosti & Collingwood, 1987a: 58; Agosti & Collingwood, 1987b: 282 (in key); Seifert, 1988a: 149 (redescription); Seifert, 1990: 5; Arakelian, 1994: 119; Radchenko, 1994b: 115 (in key); Bolton, 1995b: 222; Poldi, *et al.* 1995: 8; Espadaler, 1997b: 28; Czechowski, *et al.* 2002: 111; Radchenko, 2005b: 165; Csösz, & Markó, 2005: 231; Bračko, 2006: 148; Markó, Sipos, *et al.* 2006: 68; Petrov, 2006: 106 (in key); Bračko, 2007: 20; Seifert, 2007: 283; Werner & Wiezik, 2007: 142; Gratiashvili & Barjadze, 2008: 135; Casevitz-Weulersse & Galkowsky, 2009: 483; Lapeva-Gjonova, *et al.* 2010: 37; Boer, 2010: 38; Csösz, *et al.* 2011: 58; Karaman, M.G. 2011: 93; Legakis, 2011: 26; Borowiec, L. & Salata, 2012: 499; Czechowski, *et al.* 2012: 276; Kiran & Karaman, 2012: 12; Borowiec, L. 2014: 85; Lebas, *et al.* 2016: 206; Radchenko, 2016: 375; Salata & Borowiec, 2018c: 45; Seifert, 2018: 286.

Senior synonym of hybrida: Stärcke, 1937: 57; Seifert, 1988a: 149; Seifert, 1990: 10; Bolton, 1995b: 222; Radchenko, 2016: 375.

Senior synonym of *nuda*: Seifert, 1990: 5, 10; Bolton, 1995b: 222; Casevitz-Weulersse & Galkowsky, 2009: 483; Radchenko, 2016: 375.

Material of the unavailable name *cereomicans* referred here by Seifert, 1990: 10; Bolton, 1995b: 222.

***draco*.** *Lasius draco* Collingwood, 1982: 294, figs. 9, 22 (w.) BHUTAN.

Status as species: Bolton, 1995b: 222; Bharti, Guénard, *et al.* 2016: 27.

**edentatus*. **Lasius edentatus* Mayr, 1868b: 46 (m.) BALTIC AMBER (Eocene).

Status as species: Scudder, 1891: 713; Dalla Torre, 1893: 183; André, 1895b: 82 (in list); Handlirsch, 1907: 861; Wheeler, W.M. 1915h: 124; Burnham, 1979: 114 (error); Keilbach, 1982: 279 (error); Dlussky & Rasnitsyn, 2009: 1030 (error); Perkovsky, 2016: 114 (error).

Junior synonym of **schiefferdeckeri*: Wilson, 1955a: 52; Bolton, 1995b: 222; Dlussky & Perkovsky, 2002: 11; Dlussky, 2011: 211.

edwardsi Donisthorpe, 1933 [Acanthomyops]; see under **LASIOPHANES**.

elegantulus. *Lasius lasiooides* subsp. *elegantulus* Arnol'di, 1948: 212 (in list). *Nomen nudum*.

***elevatus*.** *Lasius (Cautolasius) elevatus* Bharti & Gul, 2013: 54, figs. 1-6 (w.) INDIA (Himachal Pradesh).

Status as species: Bharti, Guénard, *et al.* 2016: 27.

emarginatobrunneus. *Lasius brunneus* var. *emarginatobrunneus* Ruzsky, 1902d: 17 (w.) GEORGIA, RUSSIA (attributed to Forel). *Nomen nudum*.

Subspecies of *brunneus*: Bolton, 1995b: 222 (error).

***emarginatus*.** *Formica emarginata* Olivier, 1792: 494 (w.q.m.) FRANCE.

Hauschkeck, 1962: 219 (k.).

Combination in *Lasius*: Mayr, 1861: 50 (in key); Roger, 1862c: 287; Mayr, 1863: 425;

combination in *Formicina (Donisthorpea)*: Emery, 1916b: 240;

combination in *Formicina*: Bondroit, 1918: 24;

combination in *Lasius (Donisthorpea)*: Nadig, 1918: 340;

combination in *Acanthomyops (Donisthorpea)*: Donisthorpe, 1927a: 8; Donisthorpe, 1926b: 18; Donisthorpe, 1950e: 1064;

combination in *Lasius*: Stitz, 1917: 349; Menozzi, 1921: 32; Müller, 1923b: 123;

combination in *Lasius (Lasius)*: Ruzsky, 1912: 633; Forel, 1915d: 53; Emery, 1925b: 229; Karavaiev, 1936: 200; Wilson, 1955a: 89.

Subspecies of *niger*: Forel, 1874: 46 (in key); Emery & Forel, 1879: 452; Lameere, 1892: 64; Emery, in Dalla Torre, 1893: 187 (footnote); Ruzsky, 1905b: 302; Bondroit, 1910: 486; Karavaiev, 1912b: 588; Krausse, 1912b: 165; Stitz, 1914: 85; Emery, 1914d: 159; Escherich, 1917: 332 (in key); Gösswald, 1932: 59; Teranishi, 1940: 21.

Status as species: Latreille, 1798: 43; Latreille, 1802c: 163; Walckenaer, 1802: 162; Jurine, 1807: 273; Latreille, 1817d: 99; Stephens, 1829: 357; Losana, 1834: 319; Lepeletier de Saint-Fargeau, 1835: 207; Schenck, 1852: 126; Mayr, 1855: 359 (footnote); Nylander, 1856b: 68; Smith, F. 1858b: 7; Roger, 1859: 239; Mayr, 1861: 50 (in key); Roger, 1862c: 287; Roger, 1863b: 11; Mayr, 1863: 425; Emery, 1869b: 9; Dours, 1873: 165; André, 1874: 180 (in key); Mayr, 1877: 20 (in list); Emery, 1878b: 47; Emery, 1882: 450; André, 1882b: 193 (in key); Nasonov, 1889: 23; Saunders, E. 1890: 203; Emery, 1893c: 85; Dalla Torre, 1893: 183; Ruzsky, 1902d: 16; Ruzsky, 1903b: 307; Viehmeyer, 1906: 56; Wasmann, 1906: 114 (in key); Ruzsky, 1914a: 61; Forel, 1915d: 53 (in key); Emery, 1916b: 240; Stitz, 1917: 349; Menozzi, 1918: 87; Bondroit, 1918: 24; Nadig, 1918: 340; Menozzi, 1921: 32; Soudek, 1922: 70; Müller, 1923b: 123; Finzi, 1923: 4; Finzi, 1924a: 14; Emery, 1925b: 229; Santschi, 1925g: 349; Donisthorpe, 1926b: 18; Karavaiev, 1926e: 193; Santschi, 1926f: 289; Stärcke, 1926: 123 (in key); Karavaiev, 1927a: 300; Donisthorpe, 1927a: 8; Karavaiev, 1927c: 279 (in key); Karavaiev, 1927d: 348; Menozzi, 1927b: 92; Wheeler, W.M. 1927g: 119; Finzi, 1930d: 316; Cori & Finzi, 1931: 240; Santschi, 1931a: 11; Soudek, 1931: 14;

Santschi, 1932c: 72; Santschi, 1932g: 5; Arnol'di, 1933b: 602 (in key); Santschi, 1934d: 281; Grandi, 1935: 103; Zimmermann, 1935: 47; Karavaiev, 1936: 200 (redescription); Stitz, 1939: 283; Novák & Sadil, 1941: 101 (in key); Santschi, 1941: 277; Stärcke, 1944a: 155; Arnol'di, 1948: 212 (in list); Schmitz, 1950: 14; Donisthorpe, 1950e: 1064; Consani & Zangheri, 1952: 43; Wilson, 1955a: 89 (redescription); Wellenius, 1955: 16; Ceballos, 1956: 315; Baroni Urbani, 1964c: 165; Bernard, 1967: 357 (redescription); Baroni Urbani, 1968b: 487; Kutter, 1968a: 61; Collingwood & Yarrow, 1969: 78; Baroni Urbani, 1971c: 203; Collingwood, 1971: 165; Bolton & Collingwood, 1975: 7 (in key); Pisarski, 1975: 35; Hamann & Klemm, 1976: 674; Kutter, 1977c: 228; Arnol'di & Dlussky, 1978: 555 (in key); Báez & Ortega, 1978: 189; Collingwood, 1978: 89 (in key); Collingwood, 1979: 100; Barquin Diez, 1981: 467; Agosti & Collingwood, 1987a: 58; Kugler, J. 1988: 259; Casevitz-Weulersse, 1990c: 429; Le Moli & Rosi, 1991: 36; Atanassov & Dlussky, 1992: 239; Seifert, 1992b: 34 (redescription); Arakelian, 1994: 119; Radchenko, 1994b: 115 (in key); Bolton, 1995b: 222; Poldi, *et al.* 1995: 7; Espadaler, 1997b: 28; Collingwood & Prince, 1998: 23 (in key); Gallé, *et al.* 1998: 217; Czechowski, *et al.* 2002: 103; Karaman, M.G. & Karaman, 2003: 53; Csösz, & Markó, 2005: 230; Karaman, G.S. & Karaman, 2005: 57; Bračko, 2006: 148; Markó, Sipos, *et al.* 2006: 68; Petrov, 2006: 72, 107 (in key); Bračko, 2007: 20; Seifert, 2007: 276; Werner & Wiezik, 2007: 143; Zryanin & Zryanina, 2007: 234; Gratiashvili & Barjadze, 2008: 136; Paknia, *et al.* 2008: 154; Casevitz-Weulersse & Galkowsky, 2009: 483; Lapeva-Gjonova, *et al.* 2010: 37; Boer, 2010: 43; Csösz, *et al.* 2011: 58; Karaman, M.G. 2011: 89; Legakis, 2011: 26; Borowiec, L. & Salata, 2012: 500; Czechowski, *et al.* 2012: 259; Guénard & Dunn, 2012: 33; Kiran & Karaman, 2012: 12; Borowiec, L. 2014: 85; Bračko, *et al.* 2014: 19; Tohmé, G. & Tohmé, 2014: 138; Lebas, *et al.* 2016: 214; Radchenko, 2016: 367; Salata & Borowiec, 2018c: 45; Seifert, 2018: 276.

[Note: earlier authors, up to Dalla Torre, 1893: 183, refer to Latreille, 1798: 43 as the author of this taxon, despite the fact that Latreille himself wrote “*emarginata* Oliv.”]

Senior synonym of *brunneomarginatus*: Wilson, 1955a: 89; Bernard, 1967: 357; Seifert, 1992b: 34; Bolton, 1995b: 222; Radchenko, 2016: 367.

Senior synonym of *nigroemarginatus*: Wilson, 1955a: 89; Bernard, 1967: 357; Pisarski, 1975: 35; Kutter, 1977c: 14; Seifert, 1992b: 34; Arakelian, 1994: 119; Bolton, 1995b: 222; Czechowski, *et al.* 2002: 103; Czechowski, *et al.* 2012: 259; Radchenko, 2016: 367.

Senior synonym of *pontica*: Seifert, 1992b: 34; Bolton, 1995b: 222; Radchenko, 2016: 367. Material of the unavailable name *brunneoides* referred here by Wilson, 1955a: 89; Seifert, 1992b: 34.

***emarginatus*.** *Lasius emarginatus* Fabricius, 1804: 416 (q.) (no state data, “Habitat in America meridionali”).

[Unresolved junior secondary homonym of *Formica emarginata* Olivier, 1792: 494.]

Unidentifiable taxon, *incertae sedis* in *Lasius*.

[Note: *emarginata* Olivier and *emarginatus* Fabricius are considered to be different taxa because: (i) Fabricius does not mention Olivier in his entry for *emarginatus* (or anywhere else in his 1804 publication, whereas all other previous authors are acknowledged), (ii) Fabricius adds the information “Dom. Smidt. Mus. Dom. de Schestedt”, which is not present in Olivier; (iii) the type-localities of the Olivier and Fabricius taxa are very different; (iv) Olivier describes w.q.m. whereas Fabricius has only q.; (v) descriptions of the queens do not match; (vi) none of Olivier’s (1792) 11 new species are mentioned in Fabricius (1804).]

***emeryi*.** *Lasius niger* subsp. *emeryi* Ruzsky, 1905b: 313 (w.) TADJIKISTAN.

Combination in *Lasius* (*Lasius*): Ruzsky, 1912: 633.

Status as species: Ruzsky, 1914a: 61.

Subspecies of *niger*: Emery, 1925b: 230; Kuznetsov-Ugamsky, 1927e: 188; Menozzi, 1939a: 313.

Junior synonym of *niger*: Wilson, 1955a: 59; Smith, D.R. 1979: 1436; Bolton, 1995b: 222.

Unidentifiable taxon, *incertae sedis* in *Lasius*: Seifert, 1992b: 48.

***epicentrus**. **Lasius epicentrus* Théobald, 1937b: 317, pl. 25, fig. 20 (m.) FRANCE (Oligocene).

Status as species: Burnham, 1979: 114; Bolton, 1995b: 222.

epinotalis. *Lasius (Chthonolasius) umbratus* subsp. *epinotalis* Buren, 1944a: 297 (w.) U.S.A. (Iowa).

Subspecies of *subumbratus*: Creighton, 1950a: 424; Smith, M.R. 1951a: 852.

Junior synonym of *umbratus*: Wilson, 1955a: 152; Smith, M.R. 1958c: 150; Smith, D.R. 1979: 1439; Bolton, 1995b: 222; Coovert, 2005: 127; Radchenko, 2016: 373.

Junior synonym of *aphidicola*: Schär, Talavera, *et al.* 2018: 6.

escamole. *Lasius escamole* Reza, 1925: 12, figs. 1-14 (w.q.m.l.) MEXICO (Mexico, Hidalgo).

[Note: name is spelled *Lasius eskamole* in title, Reza, 1925: 1.]

Unidentifiable to genus; *incertae sedis* in *Lasius*: Wilson, 1955a: 192.

[Note: Wilson comments that this is not a *Lasius*, but its correct generic combination cannot be ascertained.]

exacutus. *Lasius umbratus* var. *exacutus* Ruzsky, 1902d: 15 (w.) ARMENIA.

Combination in *Acanthomyops*: Ruzsky, 1925b: 44;

combination in *Lasius (Chthonolasius)*: Ruzsky, 1912: 633; Ruzsky, 1914a: 61; Emery, 1925b: 234.

Subspecies of *umbratus*: Ruzsky, 1905b: 287; Ruzsky, 1914a: 61; Emery, 1925b: 234; Stärcke, 1937: 57.

Status as species: Ruzsky, 1925b: 44; Ruzsky, 1946: 70.

Subspecies of *bicornis*: Menozzi, 1939a: 314 (in key).

Junior synonym of *umbratus*: Wilson, 1955a: 150; Smith, D.R. 1979: 1439; Arakelian, 1994: 122; Bolton, 1995b: 222; Radchenko, 2016: 373.

exulans. *Lasius exulans* Fabricius, 1804: 416 (q.) (no state data, “Habitat in America meridionali”).

Combination in *Formica*: Smith, F. 1858b: 49.

Status as species: Dalla Torre, 1893: 184.

Unidentifiable to genus; *incertae sedis* in *Lasius*: Bolton, 1995b: 222.

fallax. *Lasius (Cautolasius) fallax* Wilson, 1955a: 130 (w.q.m.) U.S.A. (Utah, Washington, Idaho, Montana, Wyoming, Colorado, Arizona).

Status as species: Smith, M.R. 1958c: 148; Hunt & Snelling, 1975: 22; Yensen, *et al.* 1977: 184; Smith, D.R. 1979: 1437; Allred, 1982: 480; Wheeler, G.C. & Wheeler, J. 1986g: 64 (in key); Mackay, Lowrie, *et al.* 1988: 117 (in key); Bolton, 1995b: 223; Mackay & Mackay, 2002: 380.

flavescens. *Lasius niger* r. *flavescens* Forel, 1904b: 386 (w.) TAJIKISTAN.

Ruzsky, 1905b: 304 (q.); Tarbinsky, 1976: 137 (m.).

Combination in *Lasius (Lasius)*: Ruzsky, 1912: 633;

combination in *Acanthomyops*: Kuznetsov-Ugamsky, 1927e: 188.

Junior synonym of *niger*: Wilson, 1955a: 59; Smith, D.R. 1979: 1436.

Subspecies of niger: Ruzsky, 1905b: 303; Karavaiev, 1910a: 268; Emery, 1925b: 230; Kuznetsov-Ugamsky, 1927e: 188; Ruzsky, 1946: 69.

Status as species: Ruzsky, 1914a: 61; Collingwood, 1961a: 72; Dlussky, 1962: 181; Pisarski, 1967: 415; Tarbinsky, 1976: 136 (redescription); Seifert, 1992b: 26 (redescription); Bolton, 1995b: 223; Schultz, R. *et al.* 2006: 205.

flavidus. *Acanthomyops niger* subsp. *alienus* var. *flavidus* Kuznetsov-Ugamsky, 1927e: 189, figs. 5, 6 (w.) KAZAKHSTAN; unavailable (infrasubspecific) name.

As unavailable (infrasubspecific) name: Seifert, 1992b: 48.

Declared as unavailable (infrasubspecific) name: Bolton, 1995b: 223.

Material referred to *alienus* by Wilson, 1955a: 78; Smith, D.R. 1979: 1435; Dlussky, Soyunov & Zabelin, 1990: 159.

flavoides. *Lasius flavus* var. *flavoides* Emery, 1925b: 231.

[First available use of *Lasius flavus* subsp. *myops* var. *flavoides* Forel, 1894d: 12 (w.) SWITZERLAND; unavailable (infrasubspecific) name.]

Röszler, 1943: 47 (q.m.).

Combination in *Lasius (Chthonolasius)*: Ruzsky, 1912: 633;

combination in *Lasius (Lasius)*: Karavaiev, 1936: 209.

As unavailable (infrasubspecific) name: Ruzsky, 1896: 71; Ruzsky, 1902d: 14; Ruzsky, 1905b: 283; Karavaiev, 1912b: 587.

Subspecies of *myops*: Ruzsky, 1925a: 288.

Subspecies of *flavus*: Karavaiev, 1936: 209 (redescription); Novák & Sadil, 1941: 102 (in key).

Junior synonym of *flavus*: Wilson, 1955a: 112; Smith, D.R. 1979: 1437; Arakelian, 1994: 120.

Junior synonym of *myops*: Kutter, 1977c: 229; Seifert, 1983: 2 (in text); Bolton, 1995b: 223.

flavomyops. *Formicina (Formicina) flava* var. *flavomyops* Emery, 1916b: 241.

[First available use of *Lasius flavus* r. *myops* var. *flavomyops* Forel, 1915d: 52 (in key) (w.) SWITZERLAND; unavailable (infrasubspecific) name.]

Combination in *Formicina (Formicina)*: Emery, 1916b: 241;

combination in *Lasius (Formicina)*: Nadig, 1918: 340;

combination in *Lasius*: Emery, 1925b: 231.

As unavailable (infrasubspecific) name: Karavaiev, 1927c: 278 (in key); Gösswald, 1932: 148 (in text).

Subspecies of *flavus*: Emery, 1916b: 241; Nadig, 1918: 340; Soudek, 1922: 72; Müller, 1923a: 75; Stärcke, 1926: 121 (in key); Zimmermann, 1935: 52; Novák & Sadil, 1941: 102 (in key); van Boven, 1947: 184 (in key); Röszler, 1950: 220; Consani & Zangheri, 1952: 44. Status as species: Röszler, 1943: 47.

Junior synonym of *flavoides*: Emery, 1925b: 231; Karavaiev, 1936: 210.

Junior synonym of *flavus*: Wilson, 1955a: 112; Bernard, 1967: 359; Pisarski, 1975: 36; van Boven, 1977: 145; Smith, D.R. 1979: 1437.

Junior synonym of *myops*: Kutter, 1977c: 229; Seifert, 1983: 2 (in text), 13; Bolton, 1995b: 223.

flavoniger. *Lasius (Lasius) flavoniger* Seifert, 1992b: 27, fig. 20 (w.) TURKEY.

Status as species: Bolton, 1995b: 223; Kiran & Karaman, 2012: 12; Borowiec, L. 2014: 86.

flavus. *Formica flava* Fabricius, 1782: 491 (w.) (no state data, “Habitat in Europae”).

[Note: Dours, 1873: 165, Ruzsky, 1905b: 276, Ruzsky, 1916: 5, and others, mistakenly attribute authorship of *flava* to De Geer. I can find no mention of *flava* in either of De Geer’s publications that include formicids (1773, 1778).]

Latreille, 1798: 42 (q.m.); Wheeler, G.C. & Wheeler, J. 1953c: 152 (l.); Hauschteck, 1962: 219 (k.); Imai, 1966: 120 (k.).

Combination in *Formicina*: Shuckard, in Swainson & Shuckard, 1840: 172; Bondroit, 1918: 27;

combination in *Lasius*: Mayr, 1861: 50 (in key); Ruzsky, 1905b: 276; Kuznetsov-Ugamsky, 1929b: 36;

combination in *Lasius (Chthonolasius)*: Ruzsky, 1912: 633; Ruzsky, 1914a: 59;

combination in *Donisthorpea*: Donisthorpe, 1915d: 216;

combination in *Formicina (Formicina)*: Emery, 1916b: 241;

combination in *Lasius (Formicina)*: Wheeler, W.M. 1916k: 172; Wheeler, W.M. 1917i: 463; Santschi, 1921b: 435;

combination in *Acanthomyops*: Forel, 1916: 460; Kuznetsov-Ugamsky, 1927e: 187;

combination in *Chthonolasius (Formicina)*: Kulmatycki, 1922: 79;

combination in *Acanthomyops* (*Chthonolasius*): Kiseleva, 1925: 73; Donisthorpe, 1927a: 8; Donisthorpe, 1950e: 1064;

combination in *Chthonolasius*: Ruzsky, 1925a: 288; Ruzsky, 1936: 90;

combination in *Lasius* (*Lasius*): Forel, 1915d: 51; Emery, 1925b: 231; Karavaiev, 1936: 207;

combination in *Lasius* (*Cautolasius*): Wilson, 1955a: 112.

Status as species: Retzius, 1783: 75; Fabricius, 1787: 309; Gmelin, 1790: 2801; Olivier, 1792: 496; Fabricius, 1793: 357; Latreille, 1798: 41; Latreille, 1802c: 166; Walckenaer, 1802: 163; Fabricius, 1804: 406; Billberg, 1820: 104; Stephens, 1829: 357; Losana, 1834: 321; Lepeletier de Saint-Fargeau, 1835: 208; Schilling, 1839: 55; Nylander, 1846a: 922; Nylander, 1846b: 1048; Foerster, 1850a: 38; Smith, F. 1851: 3; Schenck, 1852: 56; Mayr, 1855: 363 (redescription); Smith, F. 1855a: 108; Nylander, 1856b: 69; Gredler, 1858: 14; Smith, F. 1858b: 8; Mayr, 1861: 50 (in key); Meinert, 1861: 319; Roger, 1862c: 285; Roger, 1863b: 11; Mayr, 1863: 425; Smith, F. 1871b: 2; Dours, 1873: 165; Forel, 1874: 47 (in key); André, 1874: 181 (in key); Emery, 1878a: ix (in list); Emery, 1878b: 47; Emery & Forel, 1879: 452; Saunders, E. 1880: 210; Provancher, 1881b: 358; André, 1882b: 195 (in key); Provancher, 1883: 601; White, W.F. 1884: 255; Mayr, 1886d: 429; Forel, 1886e: clxvii; Provancher, 1887: 236 (in key); Cresson, 1887: 257; Nasonov, 1889: 23; Lameere, 1892: 64; Dalla Torre, 1893: 184; Emery, 1893i: 640; Medina, 1893: 105; Emery, 1895c: 334; Forel, 1895d: 227; Ruzsky, 1896: 71; Saunders, E. 1896: 24; Wheeler, W.M. 1900c: 47; Ruzsky, 1902d: 14; Ruzsky, 1905b: 276; Wasmann, 1906: 114 (in key); Forel, 1909c: 104; Bondroit, 1910: 485; Forel, 1911d: 352; Karavaiev, 1912b: 587; Ruzsky, 1914a: 61; Stitz, 1914: 85; Forel, 1915d: 51 (in key); Donisthorpe, 1915d: 216; Emery, 1916b: 241; Forel, 1916: 460; Ruzsky, 1916: 5; Wheeler, W.M. 1916k: 172; Wheeler, W.M. 1917a: 527; Escherich, 1917: 333 (in key); Menozzi, 1918: 87; Nadig, 1918: 340; Bondroit, 1918: 27; Menozzi, 1921: 32; Santschi, 1921b: 435; Kulmatycki, 1922: 79; Soudek, 1922: 71; Müller, 1923a: 75; Müller, 1923b: 127; Finzi, 1923: 4; Emery, 1925b: 231; Ruzsky, 1925a: 288; Kiseleva, 1925: 73; Schkaff, 1925: 276; Karavaiev, 1926e: 194; Santschi, 1926f: 289; Stärcke, 1926: 121 (in key); Donisthorpe, 1927a: 8; Donisthorpe, 1927b: 254; Karavaiev, 1927a: 301; Kuznetsov-Ugamsky, 1927e: 187; Karavaiev, 1927c: 278 (in key); Karavaiev, 1927d: 348; Kuznetsov-Ugamsky, 1927e: 187; Finzi, 1928c: 791; Kuznetsov-Ugamsky, 1928b: 21; Lomnicki, 1928: 7; Wheeler, W.M. 1928d: 120; Wheeler, W.M. 1929f: 10; Kuznetsov-Ugamsky, 1929a: 27; Kuznetsov-Ugamsky, 1929b: 36; Finzi, 1930d: 317; Karavaiev, 1930b: 148; Karavaiev, 1931c: 110; Karavaiev, 1931e: 214; Soudek, 1931: 15; Gösswald, 1932: 61; Santschi, 1932c: 72; Arnol'di, 1933b: 603 (in key); Finzi, 1933: 165; Grandi, 1935: 103; Zimmermann, 1935: 52; Ruzsky, 1936: 90; Karavaiev, 1936: 207 (redescription); Karavaiev, 1937: 175; Kono & Sugihara, 1939: 10; Novák & Sadil, 1941: 101 (in key); Holgersen, 1942: 9; Holgersen, 1943b: 174 (in key); Holgersen, 1944: 181; Morisita, 1945: 22; Ruzsky, 1946: 70; van Boven, 1947: 184 (in key); Forsslund, 1947: 69; Arnol'di, 1948: 212 (in list); Creighton, 1950a: 422; Donisthorpe, 1950e: 1064; Schmitz, 1950: 14; Azuma, 1951: 88; Chapman & Capco, 1951: 201; Consani & Zangheri, 1952: 44; Azuma, 1955: 80; Wilson, 1955a: 112 (redescription); Ceballos, 1956: 315; Smith, M.R. 1958c: 148; Carter, 1962a: 7 (in list); Collingwood, 1963: 157 (in key); Baroni Urbani, 1964c: 163; Cagniant, 1964: 92; Bernard, 1967: 359 (redescription); Smith, M.R. 1967: 367; Kutter, 1968a: 61; Collingwood & Yarrow, 1969: 80; Cagniant, 1970c: 38; Baroni Urbani, 1971c: 207; Collingwood, 1971: 165; Banert & Pisarski, 1972: 353; Bourne, 1973: 26; Bolton & Collingwood, 1975: 7 (in key); Hunt & Snelling, 1975: 22; Pisarski, 1975: 36; Tarbinsky, 1976: 140 (redescription); Aktaç, 1977: 127; Azuma, 1977: 117; van Boven, 1977: 145; Francoeur, 1977b: 207; Kutter, 1977c: 229; Yensen, et al. 1977: 184; Arnol'di & Dlussky, 1978: 555 (in key); Collingwood, 1978: 90 (in key); Wheeler, G.C. & Wheeler,

J. 1978: 393; Smith, D.R. 1979: 1437; Collingwood, 1979: 96; Yamauchi, 1979: 160; Onoyama, 1980: 199; Collingwood, 1981: 28; Seifert, 1983: 1; Wheeler, G.C. & Wheeler, J. 1986g: 67; Nilsson & Douwes, 1987: 71; Agosti & Collingwood, 1987a: 58; Agosti & Collingwood, 1987b: 282 (in key); DuBois & LaBerge, 1988: 149; Mackay, Lowrie, *et al.* 1988: 118; Seifert, 1990: 12; Kupyanskaya, 1990: 222; Dlussky, Soyunov & Zabelin, 1990: 160; Casevitz-Weulersse, 1990c: 433; Le Moli & Rosi, 1991: 37; Morisita, *et al.* 1991: 27; Atanassov & Dlussky, 1992: 241; Arakelian, 1994: 120; Radchenko, 1994b: 115 (in key); Wheeler, G.C., *et al.* 1994: 308; Bolton, 1995b: 223; Douwes, 1995: 94; Poldi, *et al.* 1995: 8; Tang, J., Li, *et al.* 1995: 109; Wu, J. & Wang, 1995: 156; Espadaler, 1997b: 28; Collingwood & Prince, 1998: 23 (in key); Gallé, *et al.* 1998: 217; Zhou, 2001b: 187; Czechowski, *et al.* 2002: 109; Mackay & Mackay, 2002: 381; Imai, *et al.* 2003: 61; Karaman, M.G. & Karaman, 2003: 53; Covert, 2005: 124; Csösz, & Markó, 2005: 230; Karaman, G.S. & Karaman, 2005: 57; MacGown & Forster, 2005: 64; Radchenko, 2005b: 166; Ward, 2005: 64; Bračko, 2006: 149; Markó, Sipos, *et al.* 2006: 68; Petrov, 2006: 107 (in key); Schultz, R. *et al.* 2006: 203; Zhou, 2006: 586; Bračko, 2007: 20; Seifert, 2007: 280; Werner & Wiezik, 2007: 142; Zryannin & Zryannina, 2007: 234; Gratiashvili & Barjadze, 2008: 135; Casevitz-Weulersse & Galkowsky, 2009: 484; Lapeva-Gjonova, *et al.* 2010: 38; Boer, 2010: 34; Csösz, *et al.* 2011: 58; Karaman, M.G. 2011: 91; Legakis, 2011: 26; Borowiec, L. & Salata, 2012: 500; Czechowski, *et al.* 2012: 271; Ellison, *et al.* 2012: 191; Guénard & Dunn, 2012: 33; Kiran & Karaman, 2012: 12; Nezhad, *et al.* 2012: 66; Borowiec, L. 2014: 86; Bračko, *et al.* 2014: 19; Lebas, *et al.* 2016: 204; Radchenko, 2016: 368; Salata & Borowiec, 2018c: 45; Schär, Talavera, *et al.* 2018: 6; Seifert, 2018: 281.

Senior synonym of apennina: Wilson, 1955a: 112; Bernard, 1967: 359; Smith, D.R. 1979: 1437; Bolton, 1995b: 223; Radchenko, 2016: 368.

Senior synonym of fuscoides: Wilson, 1955a: 112; Smith, D.R. 1979: 1437; Dlussky, Soyunov & Zabelin, 1990: 160; Arakelian, 1994: 120; Bolton, 1995b: 223; Gratiashvili & Barjadze, 2008: 135; Radchenko, 2016: 368.

Senior synonym of ibericus: Wilson, 1955a: 112; Bernard, 1967: 359; Smith, D.R. 1979: 1437; Seifert, 1990: 12; Bolton, 1995b: 223; Zhou, 2001b: 187; Radchenko, 2016: 368.

Senior synonym of morbosa: Wilson, 1955a: 112; Bernard, 1967: 359; van Boven, 1977: 145; Smith, D.R. 1979: 1437; Bolton, 1995b: 223; Casevitz-Weulersse & Galkowsky, 2009: 484; Radchenko, 2016: 368.

Senior synonym of odoratus: Wilson, 1955a: 112; Smith, D.R. 1979: 1437; Arakelian, 1994: 120; Bolton, 1995b: 223; Gratiashvili & Barjadze, 2008: 135; Radchenko, 2016: 368.

Senior synonym of olivacea: Wilson, 1955a: 112; Smith, D.R. 1979: 1437; Arakelian, 1994: 120; Bolton, 1995b: 223; Radchenko, 2016: 368.

Material of the unavailable name *sancho* referred here by Wilson, 1955a: 112; Collingwood, 1978: 72; Smith, D.R. 1979: 1437; Seifert, 1990: 12; Bolton, 1995b: 223.

fuji. *Lasius (Dendrolasius) fuji* Radchenko, 2005a: 91, figs. 52-65 (w.q.) NORTH KOREA, SOUTH KOREA, RUSSIA (Amursky Region, Khabarovsky Region, Priorsky Region, Sakhalin Is, Kuril Is) CHINA (north-eastern), JAPAN.

Status as species: Radchenko, 2005b: 166.

fuliginosus. *Formica fuliginosa* Latreille, 1798: 36 (w.q.m.) FRANCE.

Hauschbeck, 1962: 219 (k.).

Combination in *Lasius*: Mayr, 1861: 49 (in key);

combination in *Donisthorpea*: Donisthorpe, 1915d: 188;

combination in *Formicina (Dendrolasius)*: Emery, 1916b: 242;

combination in *Formicina*: Bondroit, 1918: 35;

combination in *Acanthomyops*: Forel, 1916: 460; Kuznetsov-Ugamsky, 1927e: 187;

combination in *Acanthomyops (Dendrolasius)*: Donisthorpe, 1919: 3;

combination in *Dendrolasius*: Kulmatycki, 1922: 81; Ruzsky, 1936: 90; combination in *Lasius (Dendrolasius)*: Ruzsky, 1912: 633; Müller, 1923b: 132; Emery, 1925b: 236; Karavaiev, 1936: 216; Wilson, 1955a: 138.

Status as species: Latreille, 1802c: 140; Walckenaer, 1802: 160; Jurine, 1807: 273; Latreille, 1817d: 99; Stephens, 1829: 357; Losana, 1834: 315; Lepeletier de Saint-Fargeau, 1835: 200; Schilling, 1839: 55; Nylander, 1846a: 915; Foerster, 1850a: 28; Smith, F. 1851: 3; Schenck, 1852: 45; Mayr, 1855: 351 (redescription); Smith, F. 1855a: 105; Nylander, 1856b: 66; Gredler, 1858: 11; Smith, F. 1858b: 6; Dumeril, 1860: 930; Mayr, 1861: 49 (in key); Meinert, 1861: 320; Roger, 1863b: 11; Mayr, 1863: 425; Emery, 1869b: 9; Smith, F. 1871b: 1; Dours, 1873: 165; Smith, F. 1874: 403; Forel, 1874: 46 (in key); André, 1874: 179 (in key); Emery, 1878a: ix (in list); Emery, 1878b: 47; Emery & Forel, 1879: 452; Saunders, E. 1880: 208; André, 1882b: 191 (in key); White, W.F. 1884: 254; Nasonov, 1889: 21; Forel, 1892i: 307; Lameere, 1892: 64; Dalla Torre, 1893: 185; Ruzsky, 1896: 70; Saunders, E. 1896: 23; Ruzsky, 1902d: 14; Forel, 1902d: 290; Forel, 1903a: 712; Bingham, 1903: 341; Ruzsky, 1905b: 266; Wheeler, W.M. 1906c: 322; Wasmann, 1906: 113 (in key); Forel, 1906b: 85; Forel, 1907e: 15; Forel, 1909c: 104; Yano, 1910: 421; Bondroit, 1910: 485; Forel, 1912l: 339; Karavaiev, 1912b: 586; Ruzsky, 1914a: 61; Stitz, 1914: 83; Forel, 1915d: 50 (in key); Donisthorpe, 1915d: 188; Emery, 1916b: 242; Escherich, 1917: 332 (in key); Menozzi, 1918: 87; Bondroit, 1918: 35; Nadig, 1918: 340; Santschi, 1919e: 246; Donisthorpe, 1919: 3; Menozzi, 1922b: 331; Soudek, 1922: 68; Kulmatycki, 1922: 81; Müller, 1923a: 74; Müller, 1923b: 132; Finzi, 1923: 4; Emery, 1925b: 236; Ruzsky, 1925a: 288; Ruzsky, 1925b: 45; Betrem, 1926: 215; Santschi, 1926f: 289; Stärcke, 1926: 121 (in key); Donisthorpe, 1927b: 211; Karavaiev, 1927a: 301; Karavaiev, 1927c: 278 (in key); Karavaiev, 1927d: 347; Kuznetsov-Ugamsky, 1927e: 187; Lomnicki, 1928: 7; Karavaiev, 1930b: 147; Wheeler, W.M. 1930h: 80; Karavaiev, 1931e: 213; Soudek, 1931: 13; Gösswald, 1932: 52; Santschi, 1932c: 72; Arnol'di, 1933b: 602 (in key); Stitz, 1934: 8; Grandi, 1935: 103; Zimmermann, 1935: 53; Karavaiev, 1936: 216 (redescription); Ruzsky, 1936: 90; Menozzi, 1939a: 314 (in key); Kono & Sugihara, 1939: 10; Novák & Sadil, 1941: 100 (in key); Röszler, 1942a: 62; Holgersen, 1943b: 174 (in key); Holgersen, 1944: 180; Stärcke, 1944a: 157; Morisita, 1945: 22; Ruzsky, 1946: 69; van Boven, 1947: 184 (in key); Forsslund, 1947: 69; Arnol'di, 1948: 212 (in list); Azuma, 1951: 88; Chapman & Capco, 1951: 202; Consani & Zangheri, 1952: 44; Azuma, 1953: 4; Azuma, 1955: 80; Wilson, 1955a: 138 (redescription); Ceballos, 1956: 315; Baroni Urbani, 1964c: 165; Bernard, 1967: 366 (redescription); Kutter, 1968a: 61; Kutter, 1968b: 206; Yamauchi & Hayashida, 1968: 401 (in key); Collingwood & Yarrow, 1969: 79; Baroni Urbani, 1971c: 216; Collingwood, 1971: 166; Banert & Pisarski, 1972: 353; Bourne, 1973: 24; Bolton & Collingwood, 1975: 7 (in key); Pisarski, 1975: 39; Collingwood, 1976: 306; Azuma, 1977: 117; van Boven, 1977: 139; Arnol'di & Dlussky, 1978: 555 (in key); Collingwood, 1978: 89 (in key); Collingwood, 1979: 100; Yamauchi, 1979: 171; Onoyama, 1980: 200; Collingwood, 1981: 28; Collingwood, 1982: 292; Agosti & Collingwood, 1987a: 58; Agosti & Collingwood, 1987b: 281 (in key); Nilsson & Douwes, 1987: 70; Kupyanskaya, 1989: 783 (redescription); Morisita, *et al.* 1991: 28; Wang, M., 1992: 680; Atanassov & Dlussky, 1992: 243; Arakelian, 1994: 121; Radchenko, 1994b: 114 (in key); Bolton, 1995b: 223; Douwes, 1995: 93; Poldi, *et al.* 1995: 8; Tang, J., Li, *et al.* 1995: 109; Wu, J. & Wang, 1995: 156; Espadaler, 1997b: 28; Gallé, *et al.* 1998: 216; Zhou, 2001b: 188; Czechowski, *et al.* 2002: 117; Zhang, W. & Zheng, 2002: 219; Karaman, M.G. & Karaman, 2003: 54; Csösz, & Markó, 2005: 229; Bračko, 2006: 149; Markó, Sipos, *et al.* 2006: 68; Petrov, 2006: 72, 105 (in key); Zhou, 2006: 587; Bračko, 2007: 20; Seifert, 2007: 291; Werner & Wiezik, 2007: 142; Zryabin & Zryabina, 2007: 234; Gratiashvili & Barjadze, 2008: 135; Casevitz-Weulersse & Galkowsky, 2009: 484; Lapeva-Gjonova, *et al.* 2010: 38; Boer, 2010: 40;

Csösz, *et al.* 2011: 58; Karaman, M.G. 2011: 84; Legakis, 2011: 26; Borowiec, L. & Salata, 2012: 501; Czechowski, *et al.* 2012: 288; Kiran & Karaman, 2012: 12; Borowiec, L. 2014: 86; Bračko, *et al.* 2014: 20; Lebas, *et al.* 2016: 208; Radchenko, 2016: 371; Salata & Borowiec, 2018c: 45; Seifert, 2018: 294.

fumatus. *Lasius fumatus* Emery, 1869b: 26, fig. 3 (w.q.) ITALY.

Synonym of *lasioides*: Emery & Forel, 1879: 452.

Subspecies of *niger*: Emery & Forel, 1879: 452.

[Note: the species which is referred to as *Prenolepis lasioides* in the text of Emery, 1869b: 6, is referred to in the list of figures for that paper (p. 26) as *Lasius fumatus*. Both names refer to the same specimens and hence are automatically synonymous (Bolton, 1995b: 223).]

Junior synonym of *lasioides*: Emery, 1870: 194; Dalla Torre, 1893: 182; Forel, 1915d: 53; Emery, 1925b: 230; Smith, D.R. 1979: 1435; Seifert, 1992b: 8; Bolton, 1995b: 223.

fuscooides. *Lasius flavus* var. *fuscooides* Ruzsky, 1902e: 16 (w.) RUSSIA.

Combination in *Lasius (Chthonolasius)*: Ruzsky, 1912: 633; Ruzsky, 1914a: 61;

combination in *Chthonolasius*: Ruzsky, 1925a: 288;

combination in *Acanthomyops*: Kuznetsov-Ugamsky, 1927e: 187.

Subspecies of *flavus*: Ruzsky, 1905b: 281; Karavaiev, 1912b: 587; Ruzsky, 1920: 78; Emery, 1925b: 231; Ruzsky, 1925a: 288; Karavaiev, 1926e: 194; Kuznetsov-Ugamsky, 1927e: 187; Karavaiev, 1930b: 148; Karavaiev, 1931e: 214; Ruzsky, 1946: 70.

Junior synonym of *flavus*: Wilson, 1955a: 112; Smith, D.R. 1979: 1437; Dlussky, Soyunov & Zabelin, 1990: 160; Arakelian, 1994: 120; Bolton, 1995b: 223; Gratiashvili & Barjadze, 2008: 135; Radchenko, 2016: 368.

fuscula. *Prenolepis fuscula* Emery, 1869b: 8, pl. 1, fig. 4 (w.) ITALY.

Combination in *Lasius*: Emery, 1869b: 25 (in text), 26 (in figure captions).

As unavailable (infrasubspecific) name: Emery & Forel, 1879: 452.

Junior synonym of *lasioides*: Dalla Torre, 1893: 182; Forel, 1915d: 53; Emery, 1916b: 241; Emery, 1925b: 230; Bolton, 1995b: 223; Smith, D.R. 1979: 1435.

gebaueri. *Lasius (Lasius) gebaueri* Seifert, 1992b: 22, fig. 15 (w.) CHINA (Tibet).

Status as species: Bolton, 1995b: 223; Guénard & Dunn, 2012: 33.

**globularis*. **Formica globularis* Heer, 1849: 131, pl. 10, fig. 3 (q.) CROATIA (Miocene).

[Also described as new by Heer, 1850: 131.]

Combination in *Lasius*: Mayr, 1867b: 54.

Status as species: Giebel, 1856: 168; Heer, 1867: 14; Mayr, 1867b: 54; Scudder, 1891: 700, 713; Dalla Torre, 1893: 186; Handlirsch, 1907: 862; Bolton, 1995b: 223; Dlussky & Putyatina, 2014: 265 (redescription).

Senior synonym of *capito: Dlussky & Putyatina, 2014: 265.

**glom*. **Lasius glom* LaPolla & Greenwalt, 2015: 168, figs. 8, 15e (m.) U.S.A. (Montana, Eocene).

grandis. *Lasius niger* var. *grandis* Forel, 1909c: 104 (w.) SPAIN.

Seifert, 1992b: 32 (q.).

Junior synonym of *alienus*: Wilson, 1955a: 77; Bernard, 1967: 356; Smith, D.R. 1979: 1435.

Junior synonym of *niger*: Yarrow, 1967: 30.

Subspecies of niger: Santschi, 1919e: 246; Emery, 1924c: 170; Emery, 1925b: 230; Santschi, 1925g: 349; Santschi, 1931a: 11; Santschi, 1932c: 72; Santschi, 1933a: 22; Stärcke, 1944a: 157 (in key); Ceballos, 1956: 316.

Status as species: Seifert, 1992b: 32 (redescription); Bolton, 1995b: 223; Espadaler, 1997b: 28; Collingwood & Prince, 1998: 23 (in key); Cagniant, 2006a: 194; Wetterer, *et al.* 2007: 11; Casevitz-Weulersse & Galkowsky, 2009: 484; Borowiec, L. 2014: 86; Lebas, *et al.* 2016: 216.

hayashi. *Lasius hayashi* Yamauchi & Hayashida, 1970: 510, figs. 1, 5, 7, 8, 11 (w.q.m.) JAPAN.

Status as species: Collingwood, 1976: 305; Yamauchi, 1979: 158; Onoyama, 1980: 199; Collingwood, 1981: 28; Kupyanskaya, 1990: 220; Morisita, *et al.* 1991: 27; Seifert, 1992b: 45 (redescription); Bolton, 1995b: 223; Imai, *et al.* 2003: 63; Lin & Wu, 2003: 61; Radchenko, 2005b: 167; Guénard & Dunn, 2012: 33.

helvus. *Lasius helvus* Cook, 1953: 326, figs. (w.) U.S.A. (California).

[Also spelled *helveolus*, on p. 327.]

Junior synonym of *flavus*: Wilson, 1955a: 113; Smith, M.R. 1958c: 149; Smith, D.R. 1979: 1438; Bolton, 1995b: 223; Radchenko, 2016: 369.

Junior synonym of *brevicornis*: Schär, Talavera, *et al.* 2018: 6.

hikosanus. *Lasius (Chthonolasius) hikosanus* Yamauchi, 1979: 169, fig. 6, 2; 6, 12 (w.) JAPAN.

Status as species: Onoyama, 1980: 199; Morisita, *et al.* 1991: 28; Bolton, 1995b: 223; Imai, *et al.* 2003: 61.

himalayanus. *Lasius himalayanus* Bingham, 1903: 340.

[First available use of *Lasius niger* r. *brunneus* var. *himalayanus* Forel, 1894c: 404 (w.) INDIA (no state data, “Himalaya”); unavailable (infrasubspecific) name.]

Junior synonym of *brunneus*: Wilson, 1955a: 47.

Subspecies of *brunneus*: Forel, 1906b: 85; Emery, 1925b: 229; Menozzi, 1939a: 313; Pisarski, 1967: 415.

Status as species: Seifert, 1992b: 8 (redescription); Bolton, 1995b: 223 Tang, J., Li, *et al.* 1995: 110;; Guénard & Dunn, 2012: 33; Bharti & Gul, 2013: 57 (in key); Bharti, Guénard, *et al.* 2016: 27.

[Note: ostensibly as a subspecies of *brunneus*, but Seifert, 1992b: 8, also states that *himalayanus* may be a valid species; it is treated as such here (Bolton, 1995b: 223).]

hingstoni. *Acanthomyops (Chthonolasius) hingstoni* Donisthorpe, 1929a: 448 (w.) INDIA (West Bengal).

[Misspelled as *hyngstoni* by Menozzi, 1939a: 343.]

Status as species: Menozzi, 1939a: 314 (in key).

Junior synonym of *crinitus*: Wilson, 1955a: 187; Bolton, 1995b: 223.

hirsutus. *Lasius (Lasius) hirsutus* Seifert, 1992b: 41, fig. 31 (w.) PAKISTAN.

Status as species: Bolton, 1995b: 223.

hirtiscapus. *Lasius umbratus* var. *hirtiscapus* Stärcke, 1937: 43 (q.) CZECH REPUBLIC.

Subspecies of *mixtus*: Stitz, 1939: 299.

Junior synonym of *umbratus*: Wilson, 1955a: 152; Smith, D.R. 1979: 1439; Seifert, 1990: 11; Bolton, 1995b: 223; Radchenko, 2016: 373.

hoffmanni Emery, 1895; see under **LASIOPHANES**.

humilis. *Lasius (Formicina) humilis* Wheeler, W.M. 1917a: 528 (w.q.) U.S.A. (Nevada).

[*Lasius (Formicina) humilis* Wheeler, W.M. 1916k: 172. *Nomen nudum*.]

Combination in *Lasius (Chthonolasius)*: Emery, 1925b: 233; Wilson, 1955a: 185.

Status as species: Emery, 1925b: 233; Creighton, 1950a: 423; Smith, M.R. 1951a: 852; Wilson, 1955a: 185 (redescription); Smith, M.R. 1958c: 149; Smith, M.R. 1967: 368; Smith, D.R. 1979: 1438; Allred, 1982: 480; Wheeler, G.C. & Wheeler, J. 1986g: 67; Mackay, Lowrie, *et al.* 1988: 118; Bolton, 1995b: 223; Mackay & Mackay, 2002: 382; Ward, 2005: 64.

hybrida. *Formicina distinguenda* var. *hybrida* Bondroit, 1918: 33.

[First available use of *Formicina umbrata* subsp. *distinguenda* var. *hybrida* Emery, 1916a: 66 (w.q.) ITALY; unavailable (infrasubspecific) name.]

Combination in *Lasius (Chthonolasius)*: Emery, 1925b: 234.

As unavailable (infrasubspecific) name: Emery, 1916b: 242; Stärcke, 1937: 57.

Subspecies of *umbratus*: Emery, 1922b: 13; Emery, 1925b: 234.

Subspecies of *distinguendus*: Stärcke, 1926: 123 (in key); Consani & Zangheri, 1952: 44.

Status as species: Arnol'di & Dlussky, 1978: 555 (in key).

Junior synonym of *umbratus*: Bernard, 1967: 363; Smith, D.R. 1979: 1439.

Junior synonym of *distinguendus*: Stärcke, 1937: 57; Seifert, 1988a: 149; Seifert, 1990: 10; Bolton, 1995b: 223; Radchenko, 2016: 375.

ibericus. *Lasius (Chthonolasius) umbratus* st. *ibericus* Santschi, 1925g: 349, fig. 2a-b (w.) SPAIN.

Subspecies of *umbratus*: Stärcke, 1937: 57.

Junior synonym of *flavus*: Wilson, 1955a: 112; Bernard, 1967: 359; Smith, D.R. 1979: 1437; Seifert, 1990: 12; Bolton, 1995b: 223; Zhou, 2001b: 187; Radchenko, 2016: 368.

illyricus. *Lasius alienus* subsp. *illyricus* Zimmermann, 1935: 50 (w.q.m.) CROATIA.

Combination in *L. (Lasius)*: Borowiec, L. & Salata, 2013: 353.

Junior synonym of *alienus*: Wilson, 1955a: 78; Smith, D.R. 1979: 1435.

Junior synonym of *emarginatus*: Seifert, 1992b: 34; Bolton, 1995b: 223; Radchenko, 2016: 367; Karaman, M.G. 2011: 89.

Status as species: Borowiec, L. & Salata, 2013: 353 (redescription); Borowiec, L. 2014: 86; Salata & Borowiec, 2018b: 157 (in key); Salata & Borowiec, 2018c: 46.

incisa. *Formica incisa* Schenck, 1852: 63 (w.) GERMANY.

Combination in *Lasius*: Mayr, 1861: 50 (in key).

Status as species: Mayr, 1855: 369 (footnote); Mayr, 1861: 50 (in key); Mayr, 1863: 426.

Junior synonym of *affinis*: André, 1874: 202 (in list).

Junior synonym of *bicornis*: Smith, F. 1858b: 8; Roger, 1863b: 12; Forel, 1874: 97 (in list); Emery & Forel, 1879: 453 (footnote); Dalla Torre, 1893: 182; Ruzsky, 1905b: 290; Forel, 1915d: 52 (in key); Emery, 1916b: 242; Emery, 1922b: 13; Soudek, 1922: 73; Emery, 1925b: 232; Stärcke, 1937: 55; Seifert, 1988a: 161; Seifert, 1990: 10; Bolton, 1995b: 223; Radchenko, 2016: 378.

**inflatus*. **Tylolasius inflatus* Zhang, J. 1989: 296, pl. 74, fig. 5, fig. 296 (q.) CHINA (Shandong, Miocene).

Combination in *Lasius*: Hong, Wu & Ren, 2001: 348.

interjectus. *Lasius interjectus* Mayr, 1866b: 888, pl. 20, fig. 3 (q.) U.S.A. (New Jersey).

Emery, 1893i: 642 (w.); Wing, 1968: 93 (m.); Wheeler, G.C. & Wheeler, J. 1953c: 156 (l.).

Combination in *Lasius (Acanthomyops)*: Emery, 1893i: 642;

combination in *Acanthomyops*: Creighton, 1950a: 430;

combination in *Lasius*: Ward, 2005: 13.

Status as species: Mayr, 1886d: 430; Cresson, 1887: 257; Dalla Torre, 1893: 186; Emery, 1893i: 642; Wheeler, W.M. 1905f: 397; Wheeler, W.M. 1906b: 14; Wheeler, W.M. 1910g: 569; Wheeler, W.M. 1913c: 116; Wheeler, W.M. 1914b: 55; Wheeler, W.M. 1916k: 172; Wheeler, W.M. 1916m: 594; Wheeler, W.M. 1917a: 531; Emery, 1925b: 237; Dennis, 1938: 296; Wing, 1939: 164; Wesson, L.G. & Wesson, R.G. 1940: 101; Wheeler, G.C. & Wheeler, E.W. 1944: 257; Buren, 1944a: 298; Creighton, 1950a: 430; Buren, 1950: 190 (in key); Smith, M.R. 1951a: 853; Cole, 1954g: 284; Smith, M.R. 1958c: 151; Carter, 1962a: 8 (in list); Smith, M.R. 1967: 368; Wing, 1968: 92 (redescription); Hunt & Snelling, 1975: 22; Wheeler, G.C. & Wheeler, J. 1977b: 4 (in key); Yensen, et al. 1977: 184; Smith, D.R. 1979: 1441; Allred, 1982: 452; Wheeler, G.C. & Wheeler, J. 1986g: 68 (in key); DuBois & LaBerge, 1988: 145; Mackay, Lowrie, et al. 1988: 104; Wheeler, G.C., et al. 1994: 305; Bolton, 1995b: 53; Mackay & Mackay, 2002: 273; Deyrup, 2003: 44; Coovett, 2005: 130; Ward, 2005: 13; Ellison, et al. 2012: 192; Deyrup, 2017: 208.

japonicus. *Lasius (Lasius) emarginatus* var. *japonicus* Santschi, 1941: 277 (w.q.) JAPAN.

Subspecies of *emarginatus*: Azuma, 1951: 88; Chapman & Capco, 1951: 202; Azuma, 1953: 4; Azuma, 1955: 80; Azuma, 1977: 117.

Junior synonym of *niger*: Wilson, 1955a: 60; Smith, D.R. 1979: 1436; Yamauchi, 1979: 152; Onoyama, 1980: 199.

Status as species: Seifert, 1992b: 30 (redescription); Bolton, 1995b: 223; Imai, *et al.* 2003: 62; Radchenko, 2005b: 168; Terayama, 2009: 206; Guénard & Dunn, 2012: 33.

jensi. *Lasius (Chthonolasius) jensi* Seifert, 1982: 85, 21 figs. (w.q.m.) GERMANY.

Status as species: Agosti & Collingwood, 1987a: 58; Agosti & Collingwood, 1987b: 281 (in key); Seifert, 1988a: 155 (redescription); Seifert, 1990: 10; Arakelian, 1994: 121; Bolton, 1995b: 223; Czechowski, *et al.* 2002: 114; Radchenko, 2005b: 168; Petrov, 2006: 106 (in key); Bračko, 2007: 20; Seifert, 2007: 284; Werner & Wiezik, 2007: 142; Zryanin & Zryanina, 2007: 235; Casevitz-Weulersse & Galkowsky, 2009: 484; Lapeva-Gjonova, *et al.* 2010: 39; Boer, 2010: 38; Csösz, *et al.* 2011: 58; Karaman, M.G. 2011: 93; Borowiec, L. & Salata, 2012: 501; Czechowski, *et al.* 2012: 280; Borowiec, L. 2014: 87; Lebas, *et al.* 2016: 206; Salata & Borowiec, 2018c: 45; Seifert, 2018: 288.

karpinisi. *Lasius (Lasius) karpinisi* Seifert, 1992b: 23, fig. 16 (w.) GREECE.

Status as species: Bolton, 1995b: 223; Legakis, 2011: 26; Borowiec, L. & Salata, 2012: 501; Borowiec, L. 2014: 87; Salata & Borowiec, 2018c: 46.

kashmirensis. *Acanthomyops (Chthonolasius) bicornis* subsp. *kashmirensis* Donisthorpe, 1930a: 225 (q.m.) INDIA (Jammu & Kashmir).

[Misspelled as *kashmiriensis* by Menozzi, 1939a: 342.]

Subspecies of *bicornis*: Menozzi, 1939a: 342.

Junior synonym of *bicornis*: Wilson, 1955a: 183; Bolton, 1995b: 223; Radchenko, 2016: 378.

koreanus. *Lasius (Lasius) koreanus* Seifert, 1992b: 47, fig. 39 (w.q.) KOREA.

Status as species: Bolton, 1995b: 223; Radchenko, 2005b: 169.

kosswigi Donisthorpe, 1950 [*Acanthomyops (Donisthorpea)*]; see under **PROFORMICA**.

kusnezovi. *Lasius (Chthonolasius) carniolicus* var. *kusnezovi* Karavaiev, 1929b: 212, fig. 5 (w.) UZBEKISTAN.

Junior synonym of *carniolicus*: Wilson, 1955a: 189; Bolton, 1995b: 223; Radchenko, 2016: 370.

lasioides. *Prenolepis lasioides* Emery, 1869b: 6, pl. 1, fig. 3 (w.q.m.) ITALY.

Combination in *Lasius*: Emery, 1869b: 25 (in text); Emery, 1870: 194;

combination in *Lasius (Lasius)*: Forel, 1915d: 53;

combination in *Donisthorpea*: Donisthorpe, 1915d: 347;

combination in *Formicina (Donisthorpea)*: Emery, 1916b: 241;

combination in *Formicina*: Bondroit, 1918: 27;

combination in *Acanthomyops*: Kuznetsov-Ugamsky, 1927e: 189;

combination in *Acanthomyops (Donisthorpea)*: Donisthorpe, 1927b: 400;

combination in *Lasius*: Müller, 1923b: 126; Kuznetsov-Ugamsky, 1929b: 38.

As unavailable (infrasubspecific) name: Forel, 1904b: 386; Ruzsky, 1905b: 310.

Junior synonym of *fumatus*: Emery & Forel, 1879: 452.

[Note: the reference Emery & Forel, 1879: 452, reverses the seniority of *lasioides* established by Emery, 1870: 194, but does not affect the synonymy and is discounted here.]

Junior synonym of *alienus*: Wilson, 1955a: 77; Smith, D.R. 1979: 1435; Agosti & Collingwood, 1987a: 58; Arakelian, 1994: 117.

Subspecies of alienus: Dalla Torre, 1893: 182; Cagniant, 1964: 92; Forel, 1915d: 53 (in key); Emery, 1916b: 241; Menozzi, 1925d: 34; Zimmermann, 1935: 49; Finzi, 1936: 191.

Subspecies of niger: Forel, 1911d: 352; Forel, 1913d: 434; Forel, 1915d: 53 (in key); Donisthorpe, 1915d: 347; Emery, 1916b: 241; Santschi, 1921e: 170; Kulmatycki, 1922: 81; Finzi, 1923: 4; Emery, 1925b: 230; Schkaff, 1925: 275; Soudek, 1925b: 15; Donisthorpe, 1927b: 400; Kuznetsov-Ugamsky, 1927e: 189; Kuznetsov-Ugamsky, 1929b: 37; Finzi, 1936: 191; Bernard, 1945: 137.

Status as species: Emery, 1870: 194; Bondroit, 1918: 27; Stärcke, 1926: 124 (in key); Stärcke, 1944a: 155; Consani & Zangheri, 1952: 44; Seifert, 1992b: 8 (redescription); Bolton, 1995b: 223; Mei, 1995: 768; Poldi, *et al.* 1995: 7; Schembri & Collingwood, 1995: 156; Bračko, 2006: 149; Cagniant, 2006a: 194; Gratiashvili & Barjadze, 2008: 136; Paknia, *et al.* 2008: 154; Casevitz-Weulersse & Galkowsky, 2009: 484; Vonshak, *et al.* 2009: 40; Karaman, M.G. 2011: 85; Legakis, 2011: 27; Borowiec, L. & Salata, 2012: 501; Kiran & Karaman, 2012: 12; Borowiec, L. & Salata, 2013: 357; Borowiec, L. 2014: 87; Bračko, *et al.* 2014: 20; Lebas, *et al.* 2016: 218; Borowiec, L. & Salata, 2018: 6; Salata & Borowiec, 2018b: 157 (in key); Salata & Borowiec, 2018c: 46.

Senior synonym of *barbarus*: Seifert, 1992b: 8; Bolton, 1995b: 223.

Senior synonym of *fumatus*: Emery, 1870: 194; Dalla Torre, 1893: 182; Forel, 1915d: 53; Emery, 1925b: 230; Smith, D.R. 1979: 1435; Seifert, 1992b: 8; Bolton, 1995b: 223.

Senior synonym of *fuscula*: Dalla Torre, 1893: 182; Forel, 1915d: 53; Emery, 1916b: 241; Emery, 1925b: 230; Smith, D.R. 1979: 1435; Bolton, 1995b: 223.

***latipes*.** *Formica latipes* Walsh, 1863: 311 (w.q.m.) U.S.A. (no state data).

[Note: Wheeler, W.M. & McClendon, 1903: 153, and Creighton, 1950a: 431, say the type-locality was probably Rock Island, Illinois. No Walsh type-material is known to exist; neotype q., from Michigan, was designated by Wing, 1968: 98.]

Combination in *Lasius*: Mayr, 1866b: 889;

combination in *Lasius (Acanthomyops)*: Emery, 1893i: 642; Emery, 1925b: 237;

combination in *Acanthomyops*: Creighton, 1950a: 431;

combination in *Lasius*: Ward, 2005: 13.

Status as species: Mayr, 1863: 417; Mayr, 1866b: 889 (redescription); Mayr, 1886d: 430; Forel, 1886f: 209; Cresson, 1887: 257; André, 1889: 220; Dalla Torre, 1893: 187; Emery, 1893i: 642; Wheeler, W.M. 1900c: 47; Wheeler, W.M. & McClendon, 1903: 149; Wheeler, W.M. 1905f: 398; Wheeler, W.M. 1906b: 14; Wheeler, W.M. 1910g: 569; Wheeler, W.M. 1916k: 172; Wheeler, W.M. 1916m: 594; Wheeler, W.M. 1917a: 530; Wheeler, W.M. 1917i: 464; Emery, 1925b: 237; Menozzi, 1932b: 311; Cole, 1936a: 37; Wheeler, G.C. & Wheeler, E.W. 1944: 257; Buren, 1944a: 298; Creighton, 1950a: 431; Buren, 1950: 188 (in key); Smith, M.R. 1951a: 853; Cole, 1954g: 284; Cole, 1966: 20; Smith, M.R. 1967: 368; Wing, 1968: 98 (redescription); Hunt & Snelling, 1975: 22; Francoeur, 1977b: 207; Wheeler, G.C. & Wheeler, J. 1977b: 4 (in key); Yensen, *et al.* 1977: 184; Smith, D.R. 1979: 1441; Allred, 1982: 452; Wheeler, G.C. & Wheeler, J. 1986g: 68; DuBois & LaBerge, 1988: 145; Mackay, Lowrie, *et al.* 1988: 104; Wheeler, G.C., *et al.* 1994: 305; Bolton, 1995b: 53; Mackay & Mackay, 2002: 273; Coovert, 2005: 131; Ward, 2005: 64; Ellison, *et al.* 2012: 193.

***lawarai*.** *Lasius (Lasius) lawarai* Seifert, 1992b: 38, fig. 28 (w.) PAKISTAN.

Status as species: Bolton, 1995b: 223; Bharti, Guénard, *et al.* 2016: 27.

****longaevus*.** **Formica longaeva* Heer, 1849: 132, pl. 10, fig. 4 (q.) CROATIA (Miocene).

[Also described as new by Heer, 1850: 132.]

Combination in *Solenopsis*: Burnham, 1979: 116;

combination in *Lasius*: Mayr, 1867b: 54; Bolton, 1995b: 223.

Status as species: Giebel, 1856: 169; Heer, 1867: 14; Mayr, 1867b: 54; Scudder, 1891: 702, 713; Dalla Torre, 1893: 187; Handlirsch, 1907: 861; Burnham, 1979: 116; Bolton, 1995b: 223; Dlussky & Putyatina, 2014: 264 (redescription).

***longiceps*.** *Lasius (Chthonolasius) jensi* subsp. *longiceps* Seifert, 1988a: 158, figs. 12, 22, 31 (w.q.) KAZAKHSTAN, UKRAINE, RUSSIA.

Subspecies of *jensi*: Seifert, 1990: 11; Bolton, 1995b: 223.

Status as species: Zryanin & Zryanina, 2007: 235; Borowiec, L. 2014: 87; Radchenko, 2016: 379.

***longicirrus*.** *Lasius longicirrus* Chang & He, 2002d: 203, figs. 1-3 (w.) CHINA (Gansu).

Status as species: Guénard & Dunn, 2012: 33.

**longipennis*. **Formica longipennis* Heer, 1849: 136, pl. 10, fig. 7 (q.) CROATIA (Miocene).

[Also described as new by Heer, 1850: 136.]

Combination in *Lasius*: Mayr, 1867b: 55;

incertae sedis in *Formica*: Handlirsch, 1907: 864.

combination in *Lasius*: Dlussky & Putyatina, 2014: 264.

Status as species: Giebel, 1856: 170; Mayr, 1867b: 55; Scudder, 1891: 702; Dalla Torre, 1893: 187; Bolton, 1995b: 223; Dlussky & Putyatina, 2014: 264 (redescription).

**macrocephala*. **Formica macrocephala* Heer, 1849: 125, pl. 9, fig. 10 (q.) GERMANY (Miocene).

[Also described as new by Heer, 1850: 125.]

[Unresolved junior primary homonym of *Formica macrocephala* Erichson, 1842: 259 (Bolton, 1995b: 198).]

Status as species: Giebel, 1856: 167; Heer, 1867: 12; Mayr, 1867b: 53; Scudder, 1891: 703; Dalla Torre, 1893: 201; Handlirsch, 1907: 864; Bolton, 1995b: 198.

Junior synonym of **ophthalmicus*: Dlussky & Putyatina, 2014: 262.

magnus. *Lasius (Lasius) magnus* Seifert, 1992b: 43, figs. 33-35, 40 (w.q.) BHUTAN, INDIA (West Bengal, Meghalaya).

Status as species: Bolton, 1995b: 223; Bharti & Gul, 2013: 57 (in key); Bharti, Guénard, et al. 2016: 28.

martynovi* Popov, 1933; see under **FORMICA.

mellea. *Formica mellea* Provancher, 1881b: 356 (w.) CANADA (Québec).

[Also described as new by Provancher, 1883: 599.]

[Misspelled as *mellina* by Provancher, 1887: 236.]

[Junior primary homonym of *Formica mellea* Say, 1836: 286.]

Junior synonym of *flavus*: Provancher, 1887: 236; Dalla Torre, 1893: 185.

Replacement name: *Lasius flavus* subsp. *nearcticus* Wheeler, W.M. 1906a: 38.

[Note: *nearcticus* junior synonym of *mellea*: Emery, 1925b: 231, Creighton, 1950a: 423, Smith, M.R. 1951a: 851, Francoeur & Béique, 1966: 144; hence *nearcticus* first available replacement name.]

mellina, misspelling, see under *mellea*.

meridionalis. *Formicina meridionalis* Bondroit, 1920a: 143 (q.) FRANCE.

Stärcke, 1937: 52 (w.m.).

Combination in *Lasius*: Emery, 1922b: 13;

combination in *Lasius (Chthonolasius)*: Emery, 1925b: 234.

Subspecies of umbratus: Emery, 1922b: 13; Emery, 1925b: 234; Menozzi, 1925d: 34; Grandi, 1935: 103; Stitz, 1939: 295; Novák & Sadil, 1941: 103 (in key); Consani & Zangheri, 1952: 44.

Junior synonym of *rabaudi*: Wilson, 1955a: 168; Bernard, 1967: 364.

Junior synonym of *umbratus*: van Boven, 1977: 151.

Status as species: Stärcke, 1937: 50; Pisarski, 1975: 37; Collingwood, 1979: 102; Collingwood, 1981: 29; Agosti & Collingwood, 1987a: 58; Agosti & Collingwood, 1987b: 281 (in key); Seifert, 1988a: 154 (redescription); Seifert, 1990: 11; Kupyanskaya, 1990: 226; Morisita, et al. 1991: 28; Atanassov & Dlussky, 1992: 247; Bolton, 1995b: 224; Douwes, 1995: 94; Poldi, et al. 1995: 8; Espadaler, 1997b: 28; Collingwood & Prince, 1998: 23 (in key); Gallé, et al. 1998: 217; Czechowski, et al. 2002: 112; Imai, et al. 2003: 61; Radchenko, 2005b: 169; Petrov, 2006: 106 (in key); Bračko, 2007: 20; Seifert, 2007: 283; Werner & Wiezik, 2007: 142; Zryanin & Zryanova, 2007: 235; Casevitz-Weulersse & Galkowsky, 2009: 484; Lapeva-Gjonova, et al. 2010: 39; Boer, 2010: 38; Csösz, et al. 2011: 58; Legakis, 2011: 27; Borowiec, L. & Salata, 2012: 502; Czechowski, et al. 2012:

278; Kiran & Karaman, 2012: 13; Borowiec, L. 2014: 87; Lebas, *et al.* 2016: 206; Radchenko, 2016: 376; Salata & Borowiec, 2018c: 45; Seifert, 2018: 287.

mexicanus. *Lasius (Acanthomyops) interjectus* subsp. *mexicanus* Wheeler, W.M. 1914b: 55 (w.q.m.) MEXICO (Hidalgo).

Wheeler, G.C. & Wheeler, J. 1970: 648 (l.).

Combination in *Acanthomyops*: Wing, 1968: 146;

combination in *Lasius*: Ward, 2005: 13.

Subspecies of interjectus: Wheeler, W.M. 1916k: 172; Wheeler, W.M. 1917a: 533; Emery, 1925b: 237.

Status as species: Buren, 1950: 185; Wing, 1968: 146 (redescription); Bolton, 1995b: 53.

microgyna. *Formicina microgyna* Bondroit, 1918: 33, figs. 16, 17 (q.m.) FRANCE.

Combination in *Lasius (Chthonolasius)*: Emery, 1925b: 233.

Status as species: Bondroit, 1920a: 143; Stärcke, 1926: 122 (in key).

Subspecies of bicornis: Emery, 1925b: 233; Stärcke, 1937: 56.

Junior synonym of *bicornis*: Vandel, 1926: 197; Wilson, 1955a: 183; Bernard, 1967: 365; Seifert, 1990: 10; Bolton, 1995b: 224; Casevitz-Weulersse & Galkowsky, 2009: 483; Radchenko, 2016: 378.

microps. *Lasius (Formicina) brevicornis* var. *microps* Wheeler, W.M. 1917a: 526 (w.) U.S.A. (California).

[*Lasius (Formicina) flavus* subsp. *microps* Wheeler, W.M. 1916k: 172. *Nomen nudum*.]

Wheeler, G.C. & Wheeler, J. 1953c: 152 (l.).

Combination in *Lasius (Lasius)*: Emery, 1925b: 231;

combination in *Lasius (Chthonolasius)*: Creighton, 1950a: 422.

Subspecies of brevicornis: Emery, 1925b: 231; Wheeler, G.C. & Wheeler, E.W. 1944: 253; Smith, M.R. 1951a: 851.

Subspecies of flavus: Creighton, 1950a: 422.

Junior synonym of *flavus*: Wilson, 1955a: 112; Smith, M.R. 1958c: 148; Smith, D.R. 1979: 1437; Bolton, 1995b: 224; Coovett, 2005: 124; Radchenko, 2016: 368.

Junior synonym of *brevicornis*: Schär, Talavera, *et al.* 2018: 6.

mikir. *Lasius mikir* Collingwood, 1982: 295, figs. 10, 23 (w.) INDIA (Assam).

Status as species: Bolton, 1995b: 224; Bharti & Gul, 2013: 57 (in key); Bharti, Guénard, *et al.* 2016: 28.

minimus. *Acanthomyops niger* var. *minimus* Kuznetsov-Ugamsky, 1928b: 20 (w.) RUSSIA.

Combination in *Lasius*: Kuznetsov-Ugamsky, 1929a: 26.

Subspecies of niger: Kuznetsov-Ugamsky, 1929a: 26.

Junior synonym of *niger*: Wilson, 1955a: 59; Smith, D.R. 1979: 1436; Bolton, 1995b: 224.

Unidentifiable taxon, *incertae sedis* in *Lasius*: Seifert, 1992b: 48.

**minutula*. **Formica minutula* Heer, 1849: 136, pl. 10, fig. 8 (q.) CROATIA (Miocene).

[Also described as new by Heer, 1850: 136.]

Combination in *Lasius*: Mayr, 1867b: 55.

Status as species: Giebel, 1856: 170; Heer, 1867: 16; Mayr, 1867b: 55; Scudder, 1891: 703, 713; Dalla Torre, 1893: 187; Handlirsch, 1907: 861; Théobald, 1937b: 319; Burnham, 1979: 115; Bolton, 1995b: 224.

Junior synonym of **occultatus*: Dlussky & Putyatina, 2014: 265.

minutus. *Lasius umbratus* subsp. *minutus* Emery, 1893i: 641 (w.q.m.) U.S.A. (New Jersey, Maine).

[Note: type-locality designated as New Jersey by Creighton, 1950a: 421.]

Combination in *Lasius (Chthonolasius)*: Ruzsky, 1912: 633; Ruzsky, 1914a: 61; Wilson, 1955a: 180;

combination in *Lasius (Formicina)*: Wheeler, W.M. 1916k: 172.

Subspecies of *umbratus*: Wheeler, W.M. 1905f: 397; Wheeler, W.M. 1906b: 13; Wheeler, W.M. 1910e: 241 (redescription); Wheeler, W.M. 1910g: 569; Ruzsky, 1914a: 61; Wheeler, W.M. 1916k: 172; Wheeler, W.M. 1917h: 167; Wing, 1939: 164; Smith, M.R. 1951a: 852.

Subspecies of *bicornis*: Emery, 1925b: 233; Creighton, 1950a: 421.

Status as species: Wilson, 1955a: 180 (redescription); Smith, M.R. 1958c: 149; Smith, M.R. 1967: 368; Kutter, 1968b: 206; Francoeur, 1977b: 207; Smith, D.R. 1979: 1438; Wheeler, G.C., et al. 1994: 308; Bolton, 1995b: 224; Coovert, 2005: 126; Ellison, et al. 2012: 194.

***mixtoaffinis*.** *Lasius umbratus* var. *mixtoaffinis* Ruzsky, 1902d: 15 (w.) RUSSIA. *Nomen nudum*.

Material referred to *umbratus* by Wilson, 1955a: 151.

***mixtobicornis*.** *Lasius umbratus* var. *mixtobicornis* Ruzsky, 1905b: 292 RUSSIA. *Nomen nudum*.

Material referred to *umbratus* by Wilson, 1955a: 151.

***mixtoumbratus*.** *Lasius umbratus* var. *mixtoumbratus* Forel, 1874: 48 (w.q.) SWITZERLAND.

Combination in *Donisthorpea*: Donisthorpe, 1915d: 233;

combination in *Formicina* (*Formicina*): Emery, 1916b: 242;

combination in *Formicina*: Bondroit, 1918: 30;

combination in *Lasius* (*Chthonolasius*): Emery, 1925b: 234.

As unavailable (infrasubspecific) name: Emery & Forel, 1879: 453; Lameere, 1892: 65; Forel, 1915d: 52 (in key); Wheeler, W.M. 1917h: 167; Kulmatycki, 1922: 79; Emery, 1925b: 234; Karavaiev, 1927c: 279 (in key); Stärcke, 1937: 46.

Status as species: Emery, 1917b: 28; Bondroit, 1918: 30; Bondroit, 1920a: 144.

Subspecies of *mixtus*: Emery, 1916b: 242; Stitz, 1939: 298.

Subspecies of *umbratus*: André, 1882b: 196; Dalla Torre, 1893: 192; Ruzsky, 1903c: 207; Ito, T. 1914: 44; Donisthorpe, 1915d: 233; Soudek, 1922: 73; Stärcke, 1926: 122 (in key); Donisthorpe, 1927b: 273; Teranishi, 1940: 22; Novák & Sadil, 1941: 103 (in key); Holgersen, 1943b: 174 (in key); Consani & Zangheri, 1952: 44.

Junior synonym of *mixtus*: Pisarski, 1975: 38.

Junior synonym of *umbratus*: Wilson, 1955a: 151; Bernard, 1967: 363; Kutter, 1977c: 14; Smith, D.R. 1979: 1439; Onoyama, 1980: 199; Bolton, 1995b: 224; Imai, et al. 2003: 60.

Unidentifiable taxon, *incertae sedis* in *Lasius*: Seifert, 1990: 6.

***mixtus*.** *Formica mixta* Nylander, 1846b: 1050 (w.q.m.) FINLAND.

Combination in *Lasius*: Mayr, 1861: 50 (in key);

combination in *Donisthorpea*: Donisthorpe, 1915d: 236;

combination in *Lasius* (*Lasius*): Forel, 1915d: 52;

combination in *Formicina*: Emery, 1916a: 63; Bondroit, 1918: 32;

combination in *Formicina* (*Formicina*): Emery, 1916b: 242;

combination in *Lasius* (*Formicina*): Wheeler, W.M. 1916k: 172; Wheeler, W.M. 1917i: 463;

combination in *Chthonolasius*: Kulmatycki, 1922: 79; Ruzsky, 1936: 91;

combination in *Acanthomyops*: Ruzsky, 1925b: 45;

combination in *Acanthomyops* (*Chthonolasius*): Donisthorpe, 1950e: 1064;

combination in *Lasius* (*Chthonolasius*): Ruzsky, 1912: 633; Ruzsky, 1914a: 59; Emery, 1925b: 234; Karavaiev, 1936: 211; Wilson, 1955a: 150.

Junior synonym of *umbratus*: Wilson, 1955a: 150; Bernard, 1967: 363; Smith, D.R. 1979: 1439; Coovert, 2005: 127 (error).

Subspecies of *umbratus*: Forel, 1874: 47; Emery & Forel, 1879: 453; Mayr, 1886d: 430; Lameere, 1892: 65; Emery, in Dalla Torre, 1893: 191 (footnote); Emery, 1893i: 640; Ruzsky, 1896: 71; Saunders, E. 1896: 24; Wheeler, W.M. 1904e: 305; Ruzsky, 1905b: 288; Wheeler, W.M. 1905f: 397; Wheeler, W.M. 1906b: 13; Bondroit, 1910: 485; Wheeler, W.M. 1910e: 239; Wheeler, W.M. 1910g: 569; Karavaiev, 1912b: 587; Stitz, 1914: 86;

Emery, 1914d: 159; Ruzsky, 1914a: 61; Forel, 1915d: 52 (in key); Wheeler, W.M. 1916k: 172; Wheeler, W.M. 1917a: 528; Wheeler, W.M. 1917h: 167; Wheeler, W.M. 1917i: 463; Escherich, 1917: 333 (in key); Emery, 1922b: 13; Kulmatycki, 1922: 79; Soudek, 1922: 72; Emery, 1925b: 234; Ruzsky, 1925a: 288; Ruzsky, 1925b: 45; Schkaff, 1925: 276; Stärcke, 1926: 123 (in key); Karavaiev, 1927c: 279 (in key); Wheeler, W.M. 1928d: 120; Smith, M.R. 1928c: 277; Karavaiev, 1931e: 215; Arnol'di, 1933b: 603 (in key); Cole, 1936a: 37; Dennis, 1938: 296; Wesson, L.G. & Wesson, R.G. 1940: 101; Teranishi, 1940: 22; Cole, 1942: 375; Smith, M.R. 1951a: 852; Chapman & Capco, 1951: 202; Ceballos, 1956: 317.

Status as species: Foerster, 1850a: 41, 72; Schenck, 1852: 64; Mayr, 1855: 367 (redescription); Nylander, 1856b: 70; Gredler, 1858: 15; Smith, F. 1858b: 9; Mayr, 1861: 50 (in key); Meinert, 1861: 319; Roger, 1863b: 12; Mayr, 1863: 426; Dours, 1873: 165; André, 1874: 180 (in key); Emery, 1878b: 47; André, 1882b: 196 (in key); Nasonov, 1889: 24; Dalla Torre, 1893: 187; Ruzsky, 1902d: 15; Ruzsky, 1903c: 207; Forel, 1904f: 424; Wasmann, 1906: 114 (in key); Bondroit, 1912: 352; Donisthorpe, 1915d: 236; Emery, 1916b: 242; Ruzsky, 1916: 5; Bondroit, 1918: 32; Bondroit, 1920a: 143; Müller, 1923b: 123 (in key); Donisthorpe, 1927b: 276; Finzi, 1930d: 317; Ruzsky, 1936: 91; Stärcke, 1937: 52; Stitz, 1939: 295; Holgersen, 1940: 185; Novák & Sadil, 1941: 103 (in key); Holgersen, 1943b: 174 (in key); Holgersen, 1944: 182; Ruzsky, 1946: 70; van Boven, 1947: 185 (in key); Arnol'di, 1948: 212 (in list); Azuma, 1953: 4; Collingwood, 1962: 219; Collingwood, 1963: 149; Collingwood & Yarrow, 1969: 80; Baroni Urbani, 1971c: 211; Collingwood, 1971: 166; Banert & Pisarski, 1972: 354; Bourne, 1973: 26; Bolton & Collingwood, 1975: 7 (in key); Pisarski, 1975: 38; van Boven, 1977: 151; Kutter, 1977c: 233; Arnol'di & Dlussky, 1978: 556 (in key); Collingwood, 1978: 90 (in key); Collingwood, 1979: 106; Agosti & Collingwood, 1987a: 58; Agosti & Collingwood, 1987b: 282 (in key); Nilsson & Douwes, 1987: 71; Seifert, 1988a: 145 (redescription); Seifert, 1990: 11; Casevitz-Weulersse, 1990c: 434; Atanassov & Dlussky, 1992: 249; Radchenko, 1994b: 115 (in key); Bolton, 1995b: 224; Douwes, 1995: 94; Poldi, *et al.* 1995: 8; Espadaler, 1997b: 28; Gallé, *et al.* 1998: 217; Czechowski, *et al.* 2002: 115; Radchenko, 2005b: 170; Bračko, 2006: 149; Markó, Sipos, *et al.* 2006: 68; Petrov, 2006: 106 (in key); Bračko, 2007: 20; Radchenko, 2007: 34; Seifert, 2007: 281; Werner & Wiezik, 2007: 142; Zryanin & Zryanina, 2007: 235; Gratiashvili & Barjadze, 2008: 135; Casevitz-Weulersse & Galkowsky, 2009: 484; Lapeva-Gjonova, *et al.* 2010: 39; Boer, 2010: 39; Csösz, *et al.* 2011: 58; Legakis, 2011: 27; Borowiec, L. & Salata, 2012: 502; Czechowski, *et al.* 2012: 283; Kiran & Karaman, 2012: 13; Borowiec, L. 2014: 87; Bračko, *et al.* 2014: 20; Lebas, *et al.* 2016: 206; Radchenko, 2016: 377; Salata & Borowiec, 2018c: 45; Seifert, 2018: 283.

***monticola*.** *Formica monticola* Buckley, 1866: 157 (w.q.m.) U.S.A. (New York).

Combination in *Lasius*: Emery, 1895c: 337; Wheeler, W.M. 1902f: 20;

Unidentifiable to subgenus, *incertae sedis* in *Lasius*: Emery, 1925b: 237.

Status as species: Cresson, 1887: 256; Dalla Torre, 1893: 201; Emery, 1925b: 237.

Unidentifiable taxon; *incertae sedis* in Formicinae: Smith, M.R. 1958c: 161; Smith, D.R. 1979: 1467;

unidentifiable taxon; *incertae sedis* in *Lasius*: Smith, M.R. 1951a: 854; Bolton, 1995b: 224.

***morbosa*.** *Formicina flava* var. *morbosa* Bondroit, 1918: 28 (w.q.) FRANCE.

As unavailable (infrasubspecific) name: Stärcke, 1926: 121 (in key).

Junior synonym of *flavoides*: Emery, 1925b: 231; Karavaiev, 1936: 210.

Junior synonym of *flavus*: Wilson, 1955a: 112; Bernard, 1967: 359; van Boven, 1977: 145; Smith, D.R. 1979: 1437; Bolton, 1995b: 224; Casevitz-Weulersse & Galkowsky, 2009: 484; Radchenko, 2016: 368.

****mordicus*.** **Lasius mordicus* Zhang, J. 1989: 293, fig. 293 (q.) CHINA (Shandong, Miocene).

***morisitai*.** *Lasius (Dendrolasius) morisitai* Yamauchi, 1979: 176, fig. 7 (w.q.m.) JAPAN.

Status as species: Onoyama, 1980: 200; Kupyanskaya, 1989: 788 (redescription); Morisita, *et al.* 1991: 28; Bolton, 1995b: 224; Imai, *et al.* 2003: 60; Radchenko, 2005a: 90 (redescription); Radchenko, 2005b: 170.

***murphyi*.** *Lasius (Acanthomyops) murphii* Forel, 1901e: 367 (w.q.m.) U.S.A. (North Carolina).

[Justified emendation of spelling to *murphyi*: Wheeler, W.M. 1905f: 398.]

Combination in *Acanthomyops*: Creighton, 1950a: 431;

combination in *Lasius*: Ward, 2005: 13.

Status as species: Wheeler, W.M. 1904e: 305; Wheeler, W.M. 1905f: 398; Wheeler, W.M. 1910g: 569; Wheeler, W.M. 1913c: 116; Wheeler, W.M. 1916k: 172; Wheeler, W.M. 1917a: 530; Emery, 1925b: 237; Creighton, 1950a: 431; Buren, 1950: 188 (in key); Smith, M.R. 1951a: 854; Carter, 1962a: 8 (in list); Smith, M.R. 1967: 368; Wing, 1968: 113 (redescription); Hunt & Snelling, 1975: 22; Wheeler, G.C. & Wheeler, J. 1977b: 4 (in key); Yensen, *et al.* 1977: 184; Smith, D.R. 1979: 1441; Allred, 1982: 452; Wheeler, G.C. & Wheeler, J. 1986g: 68 (in key); Wheeler, G.C., *et al.* 1994: 305; Bolton, 1995b: 53; Mackay & Mackay, 2002: 275; Coovert, 2005: 131; Ward, 2005: 64; Ellison, *et al.* 2012: 195.

***myops*.** *Lasius flavus* r. *myops* Forel, 1894d: 12 (w.) ALGERIA.

[Misspelled as *myos* by Teranishi, 1940: 22; misspelled as *myopus* by Azuma, 1951: 88, Azuma, 1953: 4, and others; misspelled as *miops* by Petrov, 2006: 107 (in key).]

Forel, 1915d: 54 (in key) (q.); Seifert, 1983: 13 (m.).

Combination in *Lasius (Chthonolasius)*: Ruzsky, 1914a: 59;

combination in *Formicina (Formicina)*: Emery, 1916b: 241;

combination in *Formicina*: Bondroit, 1918: 29;

combination in *Chthonolasius*: Ruzsky, 1925a: 288; Ruzsky, 1936: 91;

combination in *Acanthomyops*: Ruzsky, 1925b: 44;

combination in *Lasius*: Müller, 1923b: 128;

combination in *Lasius (Lasius)*: Forel, 1915d: 51; Emery, 1925b: 231; Karavaiev, 1936: 210;

combination in *Lasius (Cautolasius)*: Wilson, 1955a: 112.

Junior synonym of *flavus*: Wilson, 1955a: 112; Bernard, 1967: 359; Collingwood, 1971: 165; van Boven, 1977: 145; Smith, D.R. 1979: 1437; Yamauchi, 1979: 160; Onoyama, 1980: 199; Atanassov & Dlussky, 1992: 241; Arakelian, 1994: 120; Imai, *et al.* 2003: 61 (error); Coovert, 2005: 124 (error).

Subspecies of *flavus*: Ruzsky, 1902d: 14; Ruzsky, 1905b: 283; Wheeler, W.M. 1906c: 322; Forel, 1907e: 15; Yano, 1910: 421; Bondroit, 1911: 10; Karavaiev, 1912b: 587; Forel, 1915d: 51 (in key); Emery, 1916b: 241; Ruzsky, 1916: 5; Escherich, 1917: 333 (in key); Santschi, 1919e: 246; Ruzsky, 1920: 78; Santschi, 1921b: 435; Menozzi, 1922b: 331; Soudek, 1922: 71; Müller, 1923a: 75; Müller, 1923b: 128; Emery, 1925b: 231; Ruzsky, 1925b: 44; Soudek, 1925b: 16; Karavaiev, 1926e: 194; Stärcke, 1926: 121 (in key); Karavaiev, 1927c: 278 (in key); Wheeler, W.M. 1928d: 120; Wheeler, W.M. 1930h: 80; Soudek, 1931: 15; Gösswald, 1932: 63; Zimmermann, 1935: 52; Karavaiev, 1936: 210 (redescription); Ruzsky, 1936: 91; Teranishi, 1940: 22; Novák & Sadil, 1941: 102 (in key); Eidmann, 1941: 25; Arnol'di, 1948: 212 (in list); Azuma, 1950: 35; Azuma, 1951: 88; Chapman & Capco, 1951: 201; Consani & Zangheri, 1952: 44; Azuma, 1953: 4; Ceballos, 1956: 315; Cagniant, 1968a: 146; Tarbinsky, 1976: 142 (redescription).

Status as species: Wheeler, W.M. 1905f: 397; Bondroit, 1918: 29; Ruzsky, 1925a: 288; Ruzsky, 1946: 70; Kutter, 1977c: 229; Seifert, 1983: 2 (redescription); Agosti & Collingwood, 1987a: 58; Agosti & Collingwood, 1987b: 282 (in key); Casevitz-Weulersse, 1990c: 433; Bolton, 1995b: 224; Poldi, *et al.* 1995: 8; Espadaler, 1997b: 28; Collingwood & Prince, 1998: 23 (in key); Gallé, *et al.* 1998: 217; Radchenko, 2005b: 170; Csösz, & Markó, 2005: 231; Bračko, 2006: 149; Cagniant, 2006a: 194; Markó, Sipos, *et al.* 2006: 68; Petrov,

2006: 107 (in key); Schultz, R. *et al.* 2006: 203; Bračko, 2007: 20; Seifert, 2007: 280; Werner & Wiezik, 2007: 154; Zryanin & Zryanina, 2007: 234; Gratiashvili & Barjadze, 2008: 135; Casevitz-Weulersse & Galkowsky, 2009: 484; Lapeva-Gjonova, *et al.* 2010: 39; Boer, 2010: 36; Csösz, *et al.* 2011: 58; Karaman, M.G. 2011: 92; Legakis, 2011: 27; Borowiec, L. & Salata, 2012: 502; Kiran & Karaman, 2012: 13; Borowiec, L. 2014: 88; Lebas, *et al.* 2016: 204; Salata & Borowiec, 2018b: 157 (in key); Salata & Borowiec, 2018c: 45; Seifert, 2018: 283.

Senior synonym of *flavoides*: Kutter, 1977c: 229; Seifert, 1983: 2 (in text); Bolton, 1995b: 224.

Senior synonym of *flavomyops*: Kutter, 1977c: 229; Seifert, 1983: 2 (in text), 13; Bolton, 1995b: 224.

***myrmidon*.** *Lasius myrmidon* Mei, 1998: 177, figs. 1-11 (w.) GREECE.

Status as species: Legakis, 2011: 27; Borowiec, L. & Salata, 2012: 503; Borowiec, L. & Salata, 2013: 357; Borowiec, L. 2014: 88; Lebas, *et al.* 2016: 204; Salata & Borowiec, 2018c: 45.

***neapolitana*.** *Lasius bicornis* var. *neapolitana* Emery, 1922b: 13 (q.m.) ITALY.

Combination in *Lasius (Chthonolasius)*: Emery, 1925b: 233.

Subspecies of *bicornis*: Stärcke, 1937: 55.

Junior synonym of *bicornis* by Wilson, 1955a: 183; Bernard, 1967: 365; Baroni Urbani, 1971c: 211; Seifert, 1990: 10; Bolton, 1995b: 224.

***nearcticus*.** *Lasius flavus* subsp. *nearcticus* Wheeler, W.M. 1906a: 38 (w.q.m.) U.S.A. (Illinois, Massachusetts, Connecticut, New York, New Jersey).

[Note: type-locality designated as Illinois by Creighton, 1950a: 423.]

Replacement name for *Formica mellea* Provancher, 1881b: 356. [Junior primary homonym of *Formica mellea* Say, 1836: 286.]

[Note: *nearcticus* junior synonym of *mellea*: Emery, 1925b: 231; Creighton, 1950a: 423; Smith, M.R. 1951a: 851; Francoeur & Béique, 1966: 144; hence *nearcticus* first available replacement name.]

Wheeler, G.C. & Wheeler, J. 1953c: 151 (l.); Crozier, 1970: 114 (k.).

Combination in *Lasius (Formicina)*: Wheeler, W.M. 1916k: 172; Wheeler, W.M. 1917i: 463;

combination in *Lasius (Lasius)*: Emery, 1925b: 231;

combination in *Lasius (Chthonolasius)*: Creighton, 1950a: 422;

combination in *Lasius (Cautolasius)*: Wilson, 1955a: 133.

Subspecies of *flavus*: Wheeler, W.M. 1906b: 13; Wheeler, W.M. 1910g: 569; Wheeler, W.M. 1916k: 172; Wheeler, W.M. 1916m: 593; Wheeler, W.M. 1917a: 527; Wheeler, W.M. 1917i: 463; Emery, 1925b: 231; Wesson, L.G. & Wesson, R.G. 1940: 100; Cole, 1942: 374; Buren, 1944a: 297; Creighton, 1950a: 422; Smith, M.R. 1951a: 851.

Status as species: Wilson, 1955a: 133 (redescription); Smith, M.R. 1958c: 149; Francoeur & Béique, 1966: 144; Smith, M.R. 1967: 368; Francoeur, 1977b: 207; Smith, D.R. 1979: 1438; Allred, 1982: 480; DuBois & LaBerge, 1988: 149; Mackay, Lowrie, *et al.* 1988: 118 (in key); Wheeler, G.C., *et al.* 1994: 308; Bolton, 1995b: 224; Mackay & Mackay, 2002: 382; Coovert, 2005: 124; Ellison, *et al.* 2012: 196.

***neglectus*.** *Lasius (Lasius) neglectus* Van Loon, Boomsma & Andrasfalvy, 1990: 350, fig. 5 (w.q.m.) HUNGARY.

Junior synonym of *turcicus*: Seifert, 1992b: 10; Bolton, 1995b: 224; Gallé, *et al.* 1998: 217.

[Note: Gallé, *et al.* 1998: 217, give *neglectus* as senior name, but *turcicus* has priority.]

Status as species: Boomsma, *et al.* 1990: 366; Seifert, 1996b: 190 (in key); Gallé, *et al.* 1998: 217; Seifert, 2000b: 176; Czechowski, *et al.* 2002: 108; Schultz R. & Seifert, 2005: 47; Markó, Sipos, *et al.* 2006: 68; Schultz, R. *et al.* 2006: 205; Seifert, 2007: 278; Werner & Wiezik, 2007: 153; Paknia, *et al.* 2008: 154; Casevitz-Weulersse & Galkowsky, 2009: 484; Lapeva-Gjonova, *et al.* 2010: 39; Boer, 2010: 43; Csösz, *et al.* 2011: 58; Legakis, 2011: 27;

Borowiec, L. & Salata, 2012: 503; Czechowski, *et al.* 2012: 269; Kiran & Karaman, 2012: 13; Borowiec, L. 2014: 88; Lebas, *et al.* 2016: 224; Radchenko, 2016: 365; Salata & Borowiec, 2018c: 46; Seifert, 2018: 279; Khalili-Moghadam, *et al.* 2019: 170.

****nemorivagus***. **Lasius nemorivagus* Wheeler, W.M. 1915h: 123 (q.) BALTIC AMBER (Eocene). Combination in *Lasius (Chthonolasius)*: Wilson, 1955a: 150.

Status as species: Wilson, 1955a: 150 (redescription); Burnham, 1979: 114; Keilbach, 1982: 280; Bolton, 1995b: 224; Dlussky & Rasnitsyn, 2009: 1030; Dlussky, 2011: 216 (redescription); Perkovsky, 2016: 114.

neoniger. *Lasius niger* var. *neoniger* Emery, 1893i: 639 (in text) (w.q.m.) U.S.A. (no state data).

Combination in *Lasius (Lasius)*: Wheeler, W.M. 1916k: 172; Wilson, 1955a: 97.

Subspecies of *niger*: Forel, 1899c: 127; Forel, 1900e: 285; Viereck, 1903: 72; Wheeler, W.M. in Viereck, 1903: 73; Wheeler, W.M. 1904e: 305; Wheeler, W.M. 1905f: 396; Wheeler, W.M. 1906b: 12; Wheeler, W.M. 1908f: 622; Wheeler, W.M. 1910g: 569; Santschi, 1911d: 7; Wheeler, W.M. 1916k: 172; Wheeler, W.M. 1916m: 593; Wheeler, W.M. 1917a: 525; Wheeler, W.M. 1917i: 463; Emery, 1925b: 230; Essig, 1926: 866; Smith, M.R. 1927: 313; Cole, 1936a: 37; Cole, 1937b: 137; Dennis, 1938: 295; Wing, 1939: 164; Wesson, L.G. & Wesson, R.G. 1940: 100; Cole, 1942: 374; Buren, 1944a: 296; Wheeler, G.C. & Wheeler, E.W. 1944: 254; Creighton, 1950a: 420; Smith, M.R. 1951a: 851.

Status as species: Gregg, E.V. 1945: 530; Wilson, 1955a: 97 (redescription); Smith, M.R. 1958c: 148; Carter, 1962a: 7 (in list); Smith, M.R. 1967: 367; Francoeur, 1977b: 207; Yensen, *et al.* 1977: 184; Wheeler, G.C. & Wheeler, J. 1978: 393; Smith, D.R. 1979: 1436; Wheeler, G.C. & Wheeler, J. 1986g: 66; DuBois & LaBerge, 1988: 150; Mackay, Lowrie, *et al.* 1988: 118; Deyrup, *et al.* 1989: 99; Wheeler, G.C., *et al.* 1994: 308; Bolton, 1995b: 224; Mackay & Mackay, 2002: 383; Deyrup, 2003: 45; Coovert, 2005: 122; MacGown & Forster, 2005: 64; Ward, 2005: 64; Ellison, *et al.* 2012: 197; Deyrup, 2017: 209.

negrensis Donisthorpe, 1933 [*Acanthomyops*]; see under **LASIOPHANES**.

nevadensis. *Lasius (Chthonolasius) nevadensis* Cole, 1956a: 26 (w.q.m.) U.S.A. (Nevada).

Status as species: Smith, M.R. 1958c: 149; Smith, D.R. 1979: 1439; Wheeler, G.C. & Wheeler, J. 1986g: 67; Bolton, 1995b: 224.

niger. *Formica nigra* Linnaeus, 1758: 580 (w.) (no state data, “Habitat in Europae”).

[Note: type-locality Sweden, after Linnaeus, 1761: 427.]

Latreille, 1798: 39 (q.m.); Wheeler, G.C. & Wheeler, J. 1953c: 148 (l.); Hauschteck, 1962: 219 (k.); Imai & Kubota, 1972: 196 (k.).

Combination in *Lasius*: Fabricius, 1804: 415; Mayr, 1861: 49 (in key);

combination in *Donisthorpea*: Morice & Durrant, 1915: 423; Donisthorpe, 1915d: 200;

combination in *Formicina (Donisthorpea)*: Emery, 1916b: 240;

combination in *Acanthomyops*: Forel, 1916: 460; Kuznetsov-Ugamsky, 1927e: 188;

combination in *Formicina*: Bondroit, 1918: 23;

combination in *Lasius (Donisthorpea)*: Nadig, 1918: 340;

combination in *Acanthomyops (Donisthorpea)*: Ruzsky, 1920: 78; Kiseleva, 1925: 74; Betrem, 1926: 215; Donisthorpe, 1927a: 8; Donisthorpe, 1950e: 1063;

combination in *Lasius*: Wheeler, W.M. 1916k: 172; Ruzsky, 1916: 5; Stitz, 1917: 349;

Menozzi, 1921: 32; Müller, 1923b: 124; Kuznetsov-Ugamsky, 1929a: 26;

combination in *Lasius (Lasius)*: Ruzsky, 1912: 633; Forel, 1915d: 53; Emery, 1924c: 170;

Emery, 1925b: 229; Karavaiev, 1936: 201; Wilson, 1955a: 59.

Status as species: Linnaeus, 1761: 427; Scopoli, 1763: 313; Linnaeus, 1767: 962;

Fabricius, 1775: 392; Forskål, 1775: xxiii; Fabricius, 1782: 489; Retzius, 1783: 75;

Geoffroy, in Fourcroy, 1785: 453; Fabricius, 1787: 308; Razoumowsky, 1789: 225; Christ, 1791: 510; Olivier, 1792: 492; Fabricius, 1793: 352; Latreille, 1798: 39; Fabricius, 1804:

415; Gravenhorst, 1807: 287; Latreille, 1809: 126; Billberg, 1820: 104; Latreille, 1802c:

156; Walckenaer, 1802: 161; Fabricius, 1804: 415; Latreille, 1817d: 99; Lamarck, 1817: 96; Stephens, 1829: 357; Brullé, 1833: 327; Losana, 1834: 317; Lepeletier de Saint-Fargeau, 1835: 206; Nylander, 1846a: 920; Smith, F. 1851: 2; Schenck, 1852: 49; Mayr, 1855: 355 (redescription); Smith, F. 1855a: 109; Nylander, 1856b: 67; Gredler, 1858: 12; Smith, F. 1858b: 6, 52; Mayr, 1861: 49 (in key); Meinert, 1861: 318; Roger, 1863b: 11; Mayr, 1863: 426; Mayr, 1865: 55; Emery, 1869b: 9; Smith, F. 1871b: 1; Dours, 1873: 165; Smith, F. 1874: 403; Forel, 1874: 46 (in key); André, 1874: 180 (in key); Mayr, 1877: 6; Emery, 1878a: ix (in list); Emery, 1878b: 47; Emery & Forel, 1879: 452; Mayr, 1880: 25; Saunders, E. 1880: 208; André, 1882b: 192 (in key); Emery, 1882: 450; Costa, 1883: 60; White, W.F. 1884: 254; Mayr, 1886d: 429; Forel, 1886f: 206; Cresson, 1887: 257; Nasonov, 1889: 22; Forel, 1890a: lxvii; Lameere, 1892: 64; Forel, 1892i: 307; Emery, 1892b: 162; Dalla Torre, 1893: 187; Emery, 1893c: 85; Emery, 1893i: 638; Medina, 1893: 105; Forel, 1894c: 404; Forel, 1895d: 227; Ruzsky, 1896: 71; Saunders, E. 1896: 25; Forel, 1899c: 127; Forel, 1900e: 269, 285; Wheeler, W.M. 1900c: 47; Forel, 1901h: 66; Ruzsky, 1902d: 16; Ruzsky, 1903b: 307; Ruzsky, 1903c: 207; Ruzsky, 1904a: 288; Forel, 1904b: 386; Ruzsky, 1905b: 292; Wheeler, W.M. 1906c: 321; Wheeler, W.M. 1906e: 352; Wasmann, 1906: 114 (in key); Santschi, 1908: 517; Wheeler, W.M. 1908f: 622; Bondroit, 1910: 485; Yano, 1910: 421; Karavaiev, 1912b: 587; Krausse, 1912b: 165; Stitz, 1914: 84; Emery, 1914d: 159; Ruzsky, 1914a: 61; Ruzsky, 1914b: 105; Forel, 1915d: 53 (in key); Donisthorpe, 1915d: 200; Ruzsky, 1916: 5; Stitz, 1917: 349; Wheeler, W.M. 1917a: 524; Emery, 1916b: 240; Escherich, 1917: 332 (in key); Bondroit, 1918: 23; Nadig, 1918: 340; Menozzi, 1918: 87; Santschi, 1919e: 246; Ruzsky, 1920: 78; Menozzi, 1922b: 331; Kulmatycki, 1922: 80; Soudek, 1922: 69; Müller, 1923b: 124; Emery, 1924c: 170; Emery, 1925b: 229; Kiseleva, 1925: 74; Ruzsky, 1925a: 287; Santschi, 1925f: 88; Santschi, 1925g: 349; Lomnicki, 1925b: 2; Soudek, 1925b: 16; Wheeler, W.M. 1926: 5; Betrem, 1926: 215; Karavaiev, 1926e: 193; Menozzi, 1926b: 182; Santschi, 1926f: 288; Stärcke, 1926: 123 (in key); Donisthorpe, 1927a: 8; Donisthorpe, 1927b: 229; Karavaiev, 1927a: 300; Karavaiev, 1927c: 280 (in key); Karavaiev, 1927d: 347; Kuznetsov-Ugamsky, 1927e: 188; Menozzi, 1927b: 91; Wheeler, W.M. 1927e: 3; Wheeler, W.M. 1927g: 118; Lomnicki, 1928: 8; Kuznetsov-Ugamsky, 1928b: 19; Wheeler, W.M. 1928c: 38; Wheeler, W.M. 1928d: 120; Wheeler, W.M. 1929f: 10; Wheeler, W.M. 1929g: 58; Kuznetsov-Ugamsky, 1929a: 26; Kuznetsov-Ugamsky, 1929b: 37; Karavaiev, 1930b: 147; Wheeler, W.M. 1930h: 80; Karavaiev, 1931b: 32; Karavaiev, 1931c: 109; Karavaiev, 1931e: 214; Santschi, 1931a: 10; Soudek, 1931: 13; Gösswald, 1932: 53; Santschi, 1932c: 72; Santschi, 1932g: 5; Teranishi, 1932: 52; Arnol'di, 1933b: 602 (in key); Finzi, 1933: 165; Santschi, 1933a: 22; Stitz, 1934: 8; Grandi, 1935: 103; Karavaiev, 1935b: 108; Zimmermann, 1935: 47; Finzi, 1936: 191; Karavaiev, 1936: 201 (redescription); Ruzsky, 1936: 90; Santschi, 1936c: 208; Santschi, 1939c: 5; Kono & Sugihara, 1939: 10; Teranishi, 1940: 20; Novák & Sadil, 1941: 101 (in key); Eidmann, 1941: 24; Santschi, 1941: 277; Holgersen, 1943b: 174 (in key); Stärcke, 1944a: 157 (in key); Holgersen, 1944: 181; Morisita, 1945: 22; Ruzsky, 1946: 69; van Boven, 1947: 185 (in key); Forsslund, 1947: 69; Röszler, 1950: 219; Schmitz, 1950: 14; Creighton, 1950a: 420; Azuma, 1950: 35; Azuma, 1951: 88; Chapman & Capco, 1951: 202; Consani & Zangheri, 1952: 44; Azuma, 1953: 4; Azuma, 1955: 80; Wellenius, 1955: 15; Wilson, 1955a: 59 (redescription); Ceballos, 1956: 315; Bernard, 1956b: 261; Smith, M.R. 1958c: 148; Bernard, 1959: 351; Collingwood, 1961a: 71; Collingwood, 1962: 219; Baroni Urbani, 1964b: 63; Baroni Urbani, 1964c: 165; Cagniant, 1964: 92; Cagniant, 1966b: 281; Imai, 1966: 119; Beck, *et al.* 1967: 70; Bernard, 1967: 355 (redescription); Yarrow, 1967: 30; Cagniant, 1968a: 146; Kutter, 1968a: 60; Collingwood & Yarrow, 1969: 78; Pisarski, 1969b: 305; Yamauchi & Hayashida, 1970: 503; Dlussky & Pisarski, 1970: 87; Collingwood, 1970: 380; Cagniant, 1970c: 38; Baroni Urbani, 1971c: 205; Collingwood,

1971: 165; Banert & Pisarski, 1972: 353; Bourne, 1973: 24; Baroni Urbani, 1974: 238; Bolton & Collingwood, 1975: 7 (in key); Hunt & Snelling, 1975: 22; Pisarski, 1975: 33; Tarbinsky, 1976: 134 (redescription); Collingwood, 1976: 305; Azuma, 1977: 117; van Boven, 1977: 144; Kutter, 1977c: 227; Yensen, *et al.* 1977: 184; Arnol'di & Dlussky, 1978: 555 (in key); Báez & Ortega, 1978: 189; Collingwood, 1978: 89 (in key); Collingwood, 1979: 99; Francoeur & Snelling, 1979: 6; Smith, D.R. 1979: 1436; Yamauchi, 1979: 152; Onoyama, 1980: 199; Barquin Diez, 1981: 448; Pisarski & Krzysztofiak, 1981: 160; Schembri & Collingwood, 1981: 439; Collingwood, 1981: 27; Allred, 1982: 481; Collingwood, 1982: 287; Agosti & Collingwood, 1987a: 58; Agosti & Collingwood, 1987b: 282 (in key); Nilsson & Douwes, 1987: 70; Mackay, Lowrie, *et al.* 1988: 118; Kupyanskaya, 1990: 219; Casevitz-Weulersse, 1990c: 430; Le Moli & Rosi, 1991: 36; Morisita, *et al.* 1991: 27; Seifert, 1991: 71; Seifert, 1992b: 27 (redescription); Wang, M., 1992: 680; Wu, J. & Wang, 1992: 1312; Hohmann, *et al.* 1993: 163; Arakelian, 1994: 121; Radchenko, 1994b: 114 (in key); Bolton, 1995b: 224; Douwes, 1995: 94; Poldi, *et al.* 1995: 8; Tang, J., Li, *et al.* 1995: 110; Wu, J. & Wang, 1995: 153; Espadaler, 1997b: 28; Collingwood & Prince, 1998: 23 (in key); Gallé, *et al.* 1998: 216; Collingwood & Heatwole, 2000: 12; Czechowski, *et al.* 2002: 100; Mackay & Mackay, 2002: 384; Zhang, W. & Zheng, 2002: 219; Karaman, M.G. & Karaman, 2003: 54; Lin & Wu, 2003: 61; Csösz, & Markó, 2005: 227; Karaman, G.S. & Karaman, 2005: 57; Ward, 2005: 64; Bračko, 2006: 149; Markó, Sipos, *et al.* 2006: 68; Petrov, 2006: 69, 107 (in key); Schultz, R. *et al.* 2006: 205; Bračko, 2007: 20; Seifert, 2007: 274; Werner & Wiezik, 2007: 154; Zryanin & Zryanina, 2007: 234; Gratiashvili & Barjadze, 2008: 136; Casevitz-Weulersse & Galkowsky, 2009: 484; Lapeva-Gjonova, *et al.* 2010: 39; Boer, 2010: 43; Csösz, *et al.* 2011: 58; Karaman, M.G. 2011: 88; Legakis, 2011: 27; Borowiec, L. & Salata, 2012: 503; Czechowski, *et al.* 2012: 253; Guénard & Dunn, 2012: 33; Kiran & Karaman, 2012: 13; Bharti & Gul, 2013: 57 (in key); Borowiec, L. 2014: 88 (see note in bibliography); Bračko, *et al.* 2014: 20; Bharti, Guénard, *et al.* 2016: 28; Lebas, *et al.* 2016: 220; Radchenko, 2016: 360; Salata & Borowiec, 2018c: 46; Schär, Talavera, *et al.* 2018: 6; Seifert, 2018: 273.

Senior synonym of alienoniger: Wilson, 1955a: 59; Bernard, 1967: 355; Baroni Urbani, 1971c: 206; van Boven, 1977: 144; Kutter, 1977c: 14; Smith, D.R. 1979: 1436; Yamauchi, 1979: 152; Onoyama, 1980: 199; Arakelian, 1994: 122; Bolton, 1995b: 224; Radchenko, 2016: 360.

Senior synonym of emeryi: Wilson, 1955a: 59; Smith, D.R. 1979: 1436; Bolton, 1995b: 224.

Senior synonym of minimus: Wilson, 1955a: 59; Smith, D.R. 1979: 1436; Bolton, 1995b: 224.

Senior synonym of nigerrima: Emery, 1892b: 162; Dalla Torre, 1893: 188; Donisthorpe, 1915d: 200; Emery, 1925b: 230; Donisthorpe, 1927b: 229; Karavaiev, 1936: 202; Bolton, 1995b: 224; Radchenko, 2016: 360.

Senior synonym of nitidus: Wilson, 1955a: 59; Smith, D.R. 1979: 1436; Bolton, 1995b: 224.

Senior synonym of pallescens: Roger, 1859: 238; Mayr, 1861: 49 (in key); Mayr, 1863: 425; Roger, 1863b: 11; Mayr, 1865: 55; André, 1874: 202 (in list); Emery & Forel, 1879: 452; Dalla Torre, 1893: 189; Donisthorpe, 1915d: 200; Emery, 1925b: 230; Donisthorpe, 1927b: 229; Karavaiev, 1936: 202; Baroni Urbani, 1971c: 205; Bolton, 1995b: 224; Radchenko, 2016: 360.

Senior synonym of transylvanica: Wilson, 1955a: 59; Smith, D.R. 1979: 1436; Bolton, 1995b: 224.

Current subspecies: nominal plus *pinetorum*.

nigerrima. Formica nigerrima Christ, 1791: 513 (w.) (no state data).

Junior synonym of *niger*: Emery, 1892b: 162; Dalla Torre, 1893: 188; Donisthorpe, 1915d: 200; Emery, 1925b: 230; Donisthorpe, 1927b: 229; Karavaiev, 1936: 202; Bolton, 1995b: 224; Radchenko, 2016: 360.

nigrescens. *Lasius emarginatus* var. *nigrescens* Stitz, 1930: 240 (q.) TAJIKISTAN.

Junior synonym of *niger*: Wilson, 1955a: 60; Bernard, 1967: 355; Smith, D.R. 1979: 1436.

Status as species: Seifert, 1992b: 38 (redescription); Bolton, 1995b: 224.

nigroaliena. *Lasius niger* subsp. *niger* var. *nigroaliena* Emery, 1914d: 159. *Nomen nudum* (attributed to Forel).

nigrobrunneus. *Acanthomyops (Donisthorpea) brunneus* var. *nigrobrunneus* Donisthorpe, 1926b: 18 (w.) ITALY.

Subspecies of *brunneus*: Donisthorpe, 1927a: 8.

Junior synonym of *brunneus*: Wilson, 1955a: 47; Bernard, 1967: 358; Seifert, 1992b: 6; Bolton, 1995b: 224; Radchenko, 2016: 366.

nigroemarginatus. *Lasius niger* var. *nigroemarginatus* Forel, 1874: 47 (w.q.) SWITZERLAND.

Combination in *Lasius (Lasius)*: Forel, 1915d: 53;

combination in *Formicina (Donisthorpea)*: Emery, 1916b: 240;

combination in *Lasius*: Stitz, 1917: 349.

As unavailable (infrasubspecific) name: Emery & Forel, 1879: 452; Lameere, 1892: 64.

Status as species: Emery, 1917b: 28.

Subspecies of *niger*: André, 1882b: 194.

Subspecies of *emarginatus*: Dalla Torre, 1893: 184; Forel, 1915d: 53 (in key); Emery, 1916b: 240; Stitz, 1917: 349; Crawley, 1920b: 177; Soudek, 1922: 70; Emery, 1925b: 229; Santschi, 1925g: 349; Stärcke, 1926: 123 (in key); Karavaiev, 1927c: 279 (in key); Karavaiev, 1927d: 348; Wheeler, W.M. 1927g: 119; Novák & Sadil, 1941: 101 (in key); Stärcke, 1944a: 157 (in key); Wellenius, 1955: 16; Ceballos, 1956: 315; Báez & Ortega, 1978: 189.

Junior synonym of *emarginatus*: Wilson, 1955a: 89; Bernard, 1967: 357; Pisarski, 1975: 35; Kutter, 1977c: 14; Seifert, 1992b: 34; Arakelian, 1994: 119; Bolton, 1995b: 224; Czechowski, *et al.* 2002: 103; Czechowski, *et al.* 2012: 259; Radchenko, 2016: 367.

[Note: Seifert, 2019d: 296, maintains that this taxon is a hybrid of *emarginatus* × *platythorax*.]

nipponensis. *Lasius fuliginosus* var. *nipponensis* Forel, 1912l: 339 (w.q.) JAPAN.

Subspecies of *fuliginosus*: Emery, 1925b: 236; Chapman & Capco, 1951: 202.

Junior synonym of *fuliginosus*: Wilson, 1955a: 138; Yamauchi, 1979: 171; Onoyama, 1980: 200; Bolton, 1995b: 224; Zhou, 2001b: 188.

Status as species: Santschi, 1941: 278; Espadaler, Akino & Terayama, 2002: 340; Imai, *et al.* 2003: 60; Radchenko, 2005a: 84 (redescription); Radchenko, 2005b: 170; Terayama, 2009: 206; Guénard & Dunn, 2012: 33.

Senior synonym of *crispus* Wilson: Radchenko, 2005a: 84; Radchenko, 2005b: 171; Terayama, 2009: 206.

nitidigaster. *Lasius nitidigaster* Seifert, 1996b: 185 (w.) [diagnosis in key] BULGARIA, AUSTRIA, CZECH REPUBLIC, SLOVAKIA.

[Also described as new by Seifert, 1997a: 202 (w.q.m.).]

Status as species: Czechowski, *et al.* 2002: 113; Bračko, 2006: 150; Bračko, 2007: 20; Werner & Wiezik, 2007: 155; Lapeva-Gjonova, *et al.* 2010: 40; Borowiec, L. & Salata, 2012: 504; Borowiec, L. 2014: 88; Lebas, *et al.* 2016: 206; Salata & Borowiec, 2018c: 45; Seifert, 2018: 289.

nitidus. *Acanthomyops niger* subsp. *nitidus* Kuznetsov-Ugamsky, 1927e: 188, figs. 2, 3 (w.) KAZAKHSTAN.

Junior synonym of *niger*: Wilson, 1955a: 59; Smith, D.R. 1979: 1436; Bolton, 1995b: 224.

Unidentifiable taxon, *incertae sedis* in *Lasius*: Seifert, 1992b: 48.

nuda. *Formicina umbrata* var. *nuda* Bondroit, 1917a: 176, fig. 2 (q.) FRANCE.

As unavailable (infrasubspecific) name: Stärcke, 1926: 123 (in key).

Subspecies of *umbratus*: Bondroit, 1918: 30; Bondroit, 1920a: 143; Betrem, 1926: 215.

Junior synonym of *affinis*: Emery, 1925b: 234; Karavaiev, 1936: 215.

Junior synonym of *umbratus*: Stärcke, 1937: 56; Bernard, 1967: 363; van Boven, 1977: 151; Smith, D.R. 1979: 1439; Agosti & Collingwood, 1987a: 58; Arakelian, 1994: 122.

Junior synonym of *distinguendus*: Seifert, 1990: 5, 10; Bolton, 1995b: 224; Casevitz-Weulersse & Galkowsky, 2009: 483; Radchenko, 2016: 375.

nyaradi. *Chthonolasius affinis* var. *nyaradi* Röszler, 1943: 47 (w.q.) ROMANIA.

Junior synonym of *umbratus*: Wilson, 1955a: 152; Smith, D.R. 1979: 1439; Bolton, 1995b: 224; Radchenko, 2016: 373.

**obliterata*. **Formica oblitterata* Heer, 1849: 144, pl. 11, figs. 11, 12 (m.) CROATIA (Miocene).

[Also described as new by Heer, 1850: 144.]

Combination in *Lasius*: Mayr, 1867b: 56.

Status as species: Giebel, 1856: 173; Heer, 1867: 18; Mayr, 1867b: 56; Scudder, 1891: 704, 714; Dalla Torre, 1893: 190; Handlirsch, 1907: 861; Bolton, 1995b: 225.

Junior synonym of **occultatus*: Dlussky & Putyatina, 2014: 265.

**oblongus*. **Lasius oblongus* Assmann, 1870: 38, pl. 1, fig. 1 (wing) GERMANY (Miocene).

Status as species: Scudder, 1891: 714; Dalla Torre, 1893: 190; Handlirsch, 1907: 861; Bolton, 1995b: 225.

obscuratus. *Lasius brunneus* var. *obscuratus* Stitz, 1930: 239 (w.q.) TAJIKISTAN.

Junior synonym of *alienus*: Wilson, 1955a: 78; Smith, D.R. 1979: 1435.

Status as species: Seifert, 1992b: 21 (redescription); Bolton, 1995b: 225; Collingwood & Heatwole, 2000: 12; Gratiashvili & Barjadze, 2008: 136; Guénard & Dunn, 2012: 33; Borowiec, L. 2014: 89.

occidentalis. *Lasius (Acanthomyops) occidentalis* Wheeler, W.M. 1909e: 83 (w.q.m.) U.S.A. (Colorado).

Combination in *Acanthomyops*: Creighton, 1950a: 432;

combination in *Lasius*: Ward, 2005: 13.

Status as species: Wheeler, W.M. 1910g: 569; Wheeler, W.M. 1916k: 172; Wheeler, W.M. 1917a: 530; Emery, 1925b: 237; Creighton, 1950a: 432; Buren, 1950: 189 (in key); Smith, M.R. 1951a: 854; Smith, M.R. 1958c: 151; Smith, M.R. 1967: 369; Wing, 1968: 143 (redescription); Hunt & Snelling, 1975: 22; Wheeler, G.C. & Wheeler, J. 1977b: 5 (in key); Smith, D.R. 1979: 1442; Allred, 1982: 453; Wheeler, G.C. & Wheeler, J. 1986g: 68 (in key); Bolton, 1995b: 53; Mackay & Mackay, 2002: 276.

**occultatus*. **Formica occultata* Heer, 1849: 134, pl. 10, fig. 6; pl. 11, fig. 11 (q.m.) CROATIA (Miocene).

[Also described as new by Heer, 1850: 134.]

Combination in *Lasius*: Mayr, 1867b: 55.

Status as species: Giebel, 1856: 169; Heer, 1867: 15; Mayr, 1867b: 54; Scudder, 1891: 705, 714; Dalla Torre, 1893: 190; Handlirsch, 1907: 860; Bolton, 1995b: 225; Dlussky & Putyatina, 2014: 265 (redescription).

Senior synonym of *minutula: Dlussky & Putyatina, 2014: 265.

Senior synonym of *oblitterata: Dlussky & Putyatina, 2014: 265.

Senior synonym of *pumila: Dlussky & Putyatina, 2014: 265.

Current subspecies: nominal plus **parschlugianus*.

odoratus. *Lasius flavus* var. *odoratus* Ruzsky, 1905b: 282 (w.) RUSSIA, KAZAKHSTAN.

Combination in *Lasius (Chthonolasius)*: Ruzsky, 1912: 633.

Subspecies of *flavus*: Ruzsky, 1914a: 61; Ruzsky, 1925b: 44; Kuznetsov-Ugamsky, 1929b: 37; Ruzsky, 1946: 70.

- Junior synonym of *flavus*: Wilson, 1955a: 112; Smith, D.R. 1979: 1437; Arakelian, 1994: 120; Bolton, 1995b: 225; Gratiashvili & Barjadze, 2008: 135; Radchenko, 2016: 368.
- oertzeni*. *Lasius bicornis* subsp. *oertzeni* Forel, 1910a: 26 (w.q.m.) GREECE.
 Combination in *Lasius (Chthonolasius)*: Emery, 1925b: 233.
 Subspecies of *bicornis*: Emery, 1925b: 233.
 Status as species: Stärcke, 1937: 56.
 Junior synonym of *bicornis*: Wilson, 1955a: 183; Bernard, 1967: 365; Seifert, 1990: 10; Bolton, 1995b: 225; Legakis, 2011: 26; Radchenko, 2016: 378.
- olivacea*. *Lasius (Lasius) flavus* var. *olivacea* Karavaiev, 1926e: 194 (w.) ARMENIA.
 Junior synonym of *flavus*: Wilson, 1955a: 112; Smith, D.R. 1979: 1437; Arakelian, 1994: 120; Bolton, 1995b: 225; Radchenko, 2016: 368.
- ****ophthalmicus***. **Formica ophthalmica* Heer, 1849: 125, pl. 9, fig. 9 (q.) CROATIA (Miocene).
 [Also described as new by Heer, 1850: 125.]
 Combination in *Lasius*: Dlussky & Putyatina, 2014: 262.
Status as species: Giebel, 1856: 167; Heer, 1867: 11; Mayr, 1867b: 52; Scudder, 1891: 706; Dalla Torre, 1893: 203; Handlirsch, 1907: 865; Bolton, 1995b: 200; Dlussky & Putyatina, 2014: 262 (redescription).
Senior synonym of *macrocephala*: Dlussky & Putyatina, 2014: 262.
- orientalis***. *Lasius fuliginosus* var. *orientalis* Karavaiev, 1912b: 586 (w.) KOREA.
 Karavaiev, 1927d: 347 (q.m.).
Subspecies of *fuliginosus*: Emery, 1925b: 236; Karavaiev, 1927b: 111; Karavaiev, 1927d: 347; Kuznetsov-Ugamsky, 1928b: 17; Kuznetsov-Ugamsky, 1929a: 24; Chapman & Capco, 1951: 202.
 Junior synonym of *fuliginosus*: Wilson, 1955a: 138; Yamauchi, 1979: 171; Kupyanskaya, 1989: 783; Bolton, 1995b: 225; Zhou, 2001b: 188.
 Junior synonym of *nipponensis*: Espadaler, Akino & Terayama, 2002: 340.
Status as species: Radchenko, 2005a: 87 (redescription); Radchenko, 2005b: 171.
Senior synonym of *ouchii*: Radchenko, 2005a: 87; Radchenko, 2005b: 171.
Senior synonym of *teranishii*: Radchenko, 2005a: 87; Radchenko, 2005b: 171.
- osakana*. *Lasius (Chthonolasius) silvestrii* var. *osakana* Santschi, 1941: 278 (q.) JAPAN.
 Subspecies of *silvestrii*: Azuma, 1951: 88; Chapman & Capco, 1951: 201.
 Junior synonym of *umbratus*: Wilson, 1955a: 152; Smith, D.R. 1979: 1439; Yamauchi, 1979: 168; Onoyama, 1980: 200; Bolton, 1995b: 225; Imai, *et al.* 2003: 60; Radchenko, 2016: 373.
- ouchii*. *Lasius (Chthonolasius) ouchii* Teranishi, 1940: 76 (q.) JAPAN.
 Junior synonym of *teranishii*: Morisita, 1945: 23; Wilson, 1955a: 146; Yamauchi & Hayashida, 1968: 399; Onoyama, 1980: 200; Bolton, 1995b: 225; Imai, *et al.* 2003: 59.
 Junior synonym of *umbratus*: Azuma, 1955: 80.
 Junior synonym of *orientalis*: Radchenko, 2005a: 87; Radchenko, 2005b: 171.
- pallescens*. *Formica pallescens* Schenck, 1852: 55 (q.m.) GERMANY.
 Status as species: Mayr, 1855: 363 (footnote).
 Junior synonym of *niger*: Roger, 1859: 238; Mayr, 1861: 49 (in key); Mayr, 1863: 425; Roger, 1863b: 11; Mayr, 1865: 55; André, 1874: 202 (in list); Emery & Forel, 1879: 452; Dalla Torre, 1893: 189; Donisthorpe, 1915d: 200; Emery, 1925b: 230; Donisthorpe, 1927b: 229; Karavaiev, 1936: 202; Baroni Urbani, 1971c: 205; Bolton, 1995b: 225; Radchenko, 2016: 360.
- pallida*. *Formica pallida* Latreille, 1798: 41 (w.q.) FRANCE.
 Combination in *Lasius*: Emery, in Dalla Torre, 1893: 183.
 As unavailable (infrasubspecific) name: Ruzsky, 1905b: 313; Emery, 1916b: 241.

Subspecies of *brunneus*: Emery, in Dalla Torre, 1893: 183; Ruzsky, 1902d: 17; Forel, 1915d: 53 (in key); Soudek, 1922: 71; Emery, 1925b: 229; Stärcke, 1926: 124 (in key); Novák & Sadil, 1941: 101 (in key); Stärcke, 1944a: 157 (in key).

Unidentifiable taxon, *incertae sedis* in *Lasius*: Seifert, 1992b: 48; Czechowski, *et al.* 2002: 104.

[Note: as the taxa *brunneus* and *pallida* were both described by Latreille, and their early synonymy was also established by Latreille, it seems reasonable to accept the synonymy (Bolton, 1995b: 225).]

Junior synonym of *brunneus*: Latreille, 1802c: 169; Stephens, 1829: 357; Smith, F. 1851: 2; Wilson, 1955a: 47; Bernard, 1967: 358; Pisarski, 1975: 33; Arakelian, 1994: 118; Bolton, 1995b: 225; Czechowski, *et al.* 2012: 261.

pallitarsis. *Formica pallitarsis* Provancher, 1881b: 355 (w.m.) CANADA (Québec).

[Also described as new by Provancher, 1883: 598.]

Hung, 1969: 456 (k.).

Combination in *Lasius*: André, 1887: 288.

Junior synonym of *alienus*: André, 1887: 288; Dalla Torre, 1893: 181; Emery, 1925b: 230; Wilson, 1955a: 77.

Junior synonym of *americanus*: Creighton, 1950a: 419; Smith, M.R. 1951a: 850.

Status as species: Provancher, 1887: 233 (in key); Cresson, 1887: 256; Francoeur & Béique, 1966: 144; Francoeur, 1975: 264; Hunt & Snelling, 1975: 22; Francoeur, 1977b: 207; Yensen, *et al.* 1977: 184; Francoeur & Snelling, 1979: 6; Smith, D.R. 1979: 1437; Allred, 1982: 482; Wheeler, G.C. & Wheeler, J. 1986g: 66; Mackay, Lowrie, *et al.* 1988: 118; Blacker, 1992: 9; Wheeler, G.C., *et al.* 1994: 308; Bolton, 1995b: 225; Mackay & Mackay, 2002: 385; Coovert, 2005: 123; Ward, 2005: 64; Ellison, *et al.* 2012: 198.

Senior synonym of *sitkaensis*: Francoeur & Béique, 1966: 144; Smith, D.R. 1979: 1437; Blacker, 1992: 9; Bolton, 1995b: 225; Coovert, 2005: 123.

pannonica. *Lasius alienus* var. *pannonica* Röszler, 1942b: 40 (w.) HUNGARY.

Unidentifiable taxon, *incertae sedis* in *Lasius*: Seifert, 1992b: 48.

Junior synonym of *alienus*: Wilson, 1955a: 78; Smith, D.R. 1979: 1435; Bolton, 1995b: 225; Radchenko, 2016: 362.

paralienus. *Lasius (Lasius) paralienus* Seifert, 1992b: 16, figs. 5, 6, 12 (w.q.) GERMANY, AUSTRIA, BULGARIA, CZECH REPUBLIC, GREECE, HUNGARY, ITALY (mainland and Sardinia), SWEDEN, SWITZERLAND, TURKEY.

Status as species: Douwes, 1995: 94; Bolton, 1995b: 225; Gallé, *et al.* 1998: 217; Czechowski, *et al.* 2002: 107; Karaman, M.G. & Karaman, 2003: 55; Csösz, & Markó, 2005: 230; Karaman, G.S. & Karaman, 2005: 57; Bračko, 2006: 150; Markó, Sipos, *et al.* 2006: 69; Bračko, 2007: 20; Seifert, 2007: 273; Werner & Wiezik, 2007: 153; Casevitz-Weulersse & Galkowsky, 2009: 485; Lapeva-Gjonova, *et al.* 2010: 40; Boer, 2010: 44; Csösz, *et al.* 2011: 58; Karaman, M.G. 2011: 87; Legakis, 2011: 27; Borowiec, L. & Salata, 2012: 504; Czechowski, *et al.* 2012: 265; Kiran & Karaman, 2012: 13; Borowiec, L. & Salata, 2013: 357; Borowiec, L. 2014: 89; Bračko, *et al.* 2014: 20; Lebas, *et al.* 2016: 210; Seifert & Galkowski, 2016: 53 (in key); Radchenko, 2016: 363; Seifert, 2018: 271.

****parschlugianus***. **Formica occultata* subsp. *parschlugiana* Heer, 1849: 135, pl. 10, fig. 6e (caste?) GERMANY

[Also described as new by Heer, 1850: 135.]

Combination in *Lasius*: Handlirsch, 1907: 862.

Subspecies of *occultata*: Scudder, 1891: 705; Dalla Torre, 1893: 190; Handlirsch, 1907: 862; Bolton, 1995b: 225.

parvula. *Lasius (Acanthomyops) parvula* Smith, M.R. 1934b: 213 (w.) U.S.A. (Illinois).

Combination in *Acanthomyops*: Creighton, 1950a: 432;

combination in *Lasius*: Ward, 2005: 13.

Status as species: Creighton, 1950a: 432; Smith, M.R. 1951a: 854; Smith, M.R. 1967: 369.
Junior synonym of *claviger*: Wing, 1968: 67; Smith, D.R. 1979: 1440; Bolton, 1995b: 53;
Coovert, 2005: 129.

**peritulus*. **Tetramorium peritulum* Cockerell, 1927: 165 (m.) U.S.A. (Colorado, Florissant,
Oligocene).

Combination in *Lasius*: Carpenter, 1930: 58;
combination in *Lasius* (*Lasius*): Wilson, 1955a: 58.

Status as species: Carpenter, 1930: 58 (redescription); Wilson, 1955a: 58 (redescription);
Burnham, 1979: 114; Bolton, 1995b: 225.

picinus Roger, 1863; see under **LASIOPHANES**.

pilicornis. *Acanthomyops niger* subsp. *alienus* var. *pilicornis* Kuznetsov-Ugamsky, 1927e: 189, fig.
8 (w.) KAZAKHSTAN; unavailable (infrasubspecific) name.

As unavailable (infrasubspecific) name: Seifert, 1992b: 48.

Declared as unavailable (infrasubspecific) name: Bolton, 1995b: 225.

Material referred to *niger* by Wilson, 1955a: 59; Smith, D.R. 1979: 1436.

Material referred to *alienus* by Dlussky, Soyunov & Zabelin, 1990: 159.

piliferus. *Lasius* (*Lasius*) *piliferus* Seifert, 1992b: 20, fig. 13 (w.) SPAIN.

Status as species: Bolton, 1995b: 225; Espadaler, 1997b: 28; Casevitz-Weulersse &
Galkowsky, 2009: 485; Borowiec, L. 2014: 89; Lebas, *et al.* 2016: 210; Seifert &
Galkowski, 2016: 53 (in key).

pilosus. *Lasius* (*Chthonolasius*) *pilosus* Smith, M.R. 1934a: 384 (w.) U.S.A. (Idaho).

Status as species: Creighton, 1950a: 423; Smith, M.R. 1951a: 852.

Junior synonym of *vestitus*: Wilson, 1955a: 173; Smith, M.R. 1958c: 150; Smith, D.R.
1979: 1440; Bolton, 1995b: 225.

pinetorum. *Lasius niger* var. *pinetorum* Ruzsky, 1907: 68 (footnote) (w.) RUSSIA.

Subspecies of *niger*: Ruzsky, 1946: 69; Bolton, 1995b: 225.

platytorax. *Lasius platytorax* Seifert, 1991: 73, figs. 3, 6, 7 (w.q.) GERMANY, SWEDEN,
CZECH REPUBLIC, ROMANIA, RUSSIA, POLAND.

Prince, 1996: 299 (m.).

Combination in *Lasius* (*Lasius*): Seifert, 1991: 75.

Status as species: Seifert, 1992b: 29 (redescription); Bolton, 1995b: 225; Douwes, 1995:
94; Poldi, *et al.* 1995: 8; Prince, 1996: 299; Gallé, *et al.* 1998: 216; Czechowski, *et al.* 2002:
103; Karaman, M.G. & Karaman, 2003: 55; Csösz, & Markó, 2005: 230; Karaman, G.S. &
Karaman, 2005: 57; Bračko, 2006: 150; Markó, Sipos, *et al.* 2006: 69; Bračko, 2007: 20;
Seifert, 2007: 275; Werner & Wiezik, 2007: 154; Zryanin & Zryanina, 2007: 234; Paknia,
et al. 2008: 154; Casevitz-Weulersse & Galkowsky, 2009: 485; Lapeva-Gjonova, *et al.*
2010: 41; Boer, 2010: 44; Csösz, *et al.* 2011: 58; Karaman, M.G. 2011: 88; Legakis, 2011:
27; Borowiec, L. & Salata, 2012: 505; Czechowski, *et al.* 2012: 257; Kiran & Karaman,
2012: 13; Borowiec, L. 2014: 89; Bračko, *et al.* 2014: 20; Lebas, *et al.* 2016: 222;
Radchenko, 2016: 362; Salata & Borowiec, 2018c: 46; Seifert, 2018: 275.

plumopilosus. *Lasius* (*Acanthomyops*) *plumopilosus* Buren, 1941: 231, fig. 1 (w.q.m.) U.S.A.
(Iowa).

Combination in *Acanthomyops*: Creighton, 1950a: 433;

combination in *Lasius*: Ward, 2005: 13.

Status as species: Buren, 1944a: 299; Creighton, 1950a: 433; Buren, 1950: 188 (in key);
Smith, M.R. 1951a: 854; Smith, M.R. 1958c: 151; Wing, 1968: 132 (redescription); Smith,
D.R. 1979: 1442; Wheeler, G.C., *et al.* 1994: 305; Bolton, 1995b: 53; Coovert, 2005: 132;
Ellison, *et al.* 2012: 199.

pogonogynus. *Lasius* (*Acanthomyops*) *pogonogynus* Buren, 1950: 186 (w.q.) U.S.A. (Colorado,
Iowa).

[Note: according to Wing, 1968: 117, *pogonogynus* is a *murphyi* × *latipes* hybrid; the name is not, however, formally synonymised.]

Combination in *Acanthomyops*: Wing, 1968: 117;
combination in *Lasius*: Ward, 2005: 13.

Status as species: Smith, M.R. 1951a: 854; Smith, M.R. 1967: 369; Smith, D.R. 1979: 1442; Mackay, Lowrie, *et al.* 1988: 104; Bolton, 1995b: 53; Mackay & Mackay, 2002: 277.

pontica. *Lasius alienus* var. *pontica* Stärcke, 1944a: 157 (w.) GEORGIA (Abkhazia).

Junior synonym of *alienus*: Wilson, 1955a: 78; Smith, D.R. 1979: 1435; Arakelian, 1994: 117 (error).

Junior synonym of *emarginatus*: Seifert, 1992b: 34; Bolton, 1995b: 225; Radchenko, 2016: 367.

***productus*.** *Lasius (Lasius) productus* Wilson, 1955a: 95 (w.q.m.) JAPAN.

Status as species: Yamauchi & Hayashida, 1970: 511 (in key); Azuma, 1977: 117; Yamauchi, 1979: 156; Onoyama, 1980: 199; Morisita, *et al.* 1991: 27; Seifert, 1992b: 46 (redescription); Bolton, 1995b: 225; Imai, *et al.* 2003: 62; Guénard & Dunn, 2012: 33.

***przewalskii*.** *Lasius (Chthonolasius) umbratus* subsp. *przewalskii* Ruzsky, 1915a: 434 (w.) CHINA (Tibet).

[Misspelled as *prczewalskii* by Emery, 1925b: 234; misspelled as *prezewalskii* by Menozzi, 1939a: 314 (in key).]

As unavailable (infrasubspecific) name: Emery, 1925b: 234; Menozzi, 1939a: 314 (in key).

Junior synonym of *umbratus*: Wilson, 1955a: 151; Smith, D.R. 1979: 1439.

Status as species: Pisarski & Krzysztofiak, 1981: 161; Bolton, 1995b: 225.

***psammophilus*.** *Lasius (Lasius) psammophilus* Seifert, 1992b: 15, figs. 4, 6, 11 (w.q.) GERMANY, CZECH REPUBLIC, DENMARK, GREAT BRITAIN (England), FRANCE, SWEDEN.

Status as species: Douwes, 1995: 94; Bolton, 1995b: 225; Gallé, *et al.* 1998: 217; Czechowski, *et al.* 2002: 107; Bračko, 2006: 150; Bračko, 2007: 20; Seifert, 2007: 272; Werner & Wiezik, 2007: 153; Zryanin & Zryanova, 2007: 234; Casevitz-Weulersse & Galkowsky, 2009: 485; Lapeva-Gjonova, *et al.* 2010: 41; Boer, 2010: 44; Csösz, *et al.* 2011: 58; Czechowski, *et al.* 2012; Kiran & Karaman, 2012: 13: 267; Borowiec, L. 2014: 89; Lebas, *et al.* 2016: 210; Radchenko, 2016: 364; Seifert & Galkowski, 2016: 53 (in key); Salata & Borowiec, 2018b: 157 (in key); Salata & Borowiec, 2018c: 46; Seifert, 2018: 269.

***pubescens*.** *Lasius (Acanthomyops) pubescens* Buren, 1942: 405 (w.q.) U.S.A. (Minnesota).

Combination in *Acanthomyops*: Creighton, 1950a: 433;

combination in *Lasius*: Ward, 2005: 13.

Status as species: Creighton, 1950a: 433; Buren, 1950: 189 (in key); Smith, M.R. 1951a: 854; Wing, 1968: 138 (redescription); Smith, D.R. 1979: 1442; Bolton, 1995b: 53.

****pumila*.** **Formica pumila* Heer, 1849: 137, pl. 11, fig. 5 (q.m.) CROATIA (Miocene).

[Also described as new by Heer, 1850: 137.]

Incertae sedis in *Formica*: Handlirsch, 1907: 865.

Status as species: Giebel, 1856: 170; Heer, 1867: 16; Mayr, 1867b: 55; Scudder, 1891: 708; Dalla Torre, 1893: 206; Bolton, 1995b: 202.

Junior synonym of **occultatus*: Dlussky & Putyatina, 2014: 265.

****pumilus*.** **Lasius pumilus* Mayr, 1868b: 46, pl. 2, fig. 33 (w.) BALTIC AMBER (Eocene).

[Misspelled as **pusillus* by Wheeler, W.M. 1915h: 142; misspelled as **pumilis* by Wilson, 1955a: 56.]

[Unresolved junior secondary homonym of **Formica pumila* Heer, 1849: 137.]

Dlussky, 2011: 215 (q.).

Combination in *Lasius (Lasius)*: Wilson, 1955a: 56.

Status as species: Scudder, 1891: 714; Dalla Torre, 1893: 190; André, 1895b: 82 (in list); Handlirsch, 1907: 860; Wheeler, W.M. 1915h: 122; Wilson, 1955a: 56 (redescription);

Burnham, 1979: 114; Keilbach, 1982: 279; Bolton, 1995b: 225; Dlussky & Rasnitsyn, 2009: 1030; Dlussky, 2011: 215 (redescription); Perkovsky, 2016: 114.

**punctulatus*. **Lasius punctulatus* Mayr, 1868b: 46, pl. 2, fig. 34 (q.) BALTIC AMBER (Eocene). Combination in *Lasius* (*Lasius*): Wilson, 1955a: 57.

Junior synonym of **pumilus*: Wilson, 1955a: 57; Bolton, 1995b: 225.

Status as species: Scudder, 1891: 714; Dalla Torre, 1893: 190; André, 1895b: 82 (in list); Handlirsch, 1907: 861; Wheeler, W.M. 1915h: 123; Burnham, 1979: 114; Keilbach, 1982: 279; Dlussky & Rasnitsyn, 2009: 1030; Dlussky, 2011: 217 (redescription); Perkovsky, 2016: 114.

**pusillus*, misspelling, see under **pumilus*.

rabaudi. *Formicina rabaudi* Bondroit, 1917a: 177, fig. 2 (q.) FRANCE.

Emery, 1924c: 170 (w.); Wilson, 1955a: 169 (m.).

Combination in *Lasius* (*Chthonolasius*): Emery, 1925b: 233; Wilson, 1955a: 168.

Junior synonym of *umbratus*: Bourne, 1973: 25; van Boven, 1977: 151; Imai, *et al.* 2003: 60 (error).

Subspecies of umbratus: Emery, 1924c: 170.

Status as species: Bondroit, 1918: 35; Bondroit, 1920a: 144; Emery, 1925b: 233; Stärcke, 1937: 56; Wilson, 1955a: 168 (redescription); Ceballos, 1956: 316; Collingwood, 1961a: 72; Collingwood, 1963: 157 (in key); Bernard, 1967: 364 (redescription); Kutter, 1968a: 61; Collingwood & Yarrow, 1969: 80; Baroni Urbani, 1971c: 212; Collingwood, 1971: 165; Collingwood, 1976: 306; Kutter, 1977c: 234; Azuma, 1977: 117; Arnol'di & Dlussky, 1978: 555 (in key); Collingwood, 1978: 89 (in key); Yamauchi, 1979: 169; Agosti & Collingwood, 1987a: 58; Agosti & Collingwood, 1987b: 281 (in key); Seifert, 1988a: 159 (redescription); Seifert, 1990: 11; Bolton, 1995b: 225; Poldi, *et al.* 1995: 8; Espadaler, 1997b: 28; Petrov, 2006: 106 (in key); Werner & Wiezik, 2007: 155; Gratiashvili & Barjadze, 2008: 135; Casevitz-Weulersse & Galkowsky, 2009: 485; Kiran & Karaman, 2012: 13; Borowiec, L. 2014: 89 (see note in bibliography); Lebas, *et al.* 2016: 206.

reginae. *Lasius* (*Austrolasius*) *reginae* Faber, 1967: 75, figs. 2-6, 8-13, 16-19, 21-23 (w.q.m.) AUSTRIA.

Status as species: Kutter, 1968b: 206; Agosti & Collingwood, 1987a: 58; Agosti & Collingwood, 1987b: 281 (in key); Bolton, 1995b: 225; Petrov, 2006: 106 (in key); Bračko, 2007: 20; Seifert, 2007: 288; Werner & Wiezik, 2007: 142; Borowiec, L. 2014: 90; Lebas, *et al.* 2016: 202; Salata & Borowiec, 2018c: 45; Seifert, 2018: 292.

rubiginosa. *Formica rubiginosa* Latreille, 1802c: 170 (q.) FRANCE.

Combination in *Lasius*: Emery, 1925b: 230.

Status as species: Schenck, 1852: 127; Smith, F. 1858b: 8; Dalla Torre, 1893: 206.

Unidentifiable to genus, *incertae sedis* in *Lasius*: Bolton, 1995b: 225.

[Note: Dalla Torre, 1893: 206 (footnote), suggests possible synonymy with *Lasius umbratus*. Bondroit, 1918: 25, suggests a possible correlation of this name with *L. alienus*.]

ruficornis. *Formica ruficornis* Fabricius, 1804: 397 (q.) INDIA (“Habitat in India orientali”).

[Unresolved junior primary homonym of *Formica ruficornis* Gmelin, 1790: 2805.]

Combination in *Lasius*: Roger, 1863b: 11.

Status as species: Billberg, 1820: 104; Smith, F. 1858b: 16.

Junior synonym of *flavus*: Roger, 1862c: 285; Roger, 1863b: 11; Forel, 1874: 97 (in list); Emery & Forel, 1879: 452; Mayr, 1886d: 429; Dalla Torre, 1893: 184; Zhou, 2001b: 187 (error).

Junior synonym of *nearcticus*: Emery, 1925b: 231; Creighton, 1950a: 423.

Unidentifiable to genus; *incertae sedis* in *Lasius*: Bolton, 1995b: 225.

[Note: identity of this taxon is unknowable (material lost, description very vague), so Roger's synonymy may stand. Emery's, 1925b: 231, provisional synonymy of *ruficornis* with *nearcticus* is certainly incorrect.]

rufoniger Donisthorpe, 1933 [Acanthomyops]; see under **LASIOPHANES**.

sabularum. *Formicina umbrata* var. *sabularum* Bondroit, 1918: 30 (q.) FRANCE.

Seifert, 1988a: 147 (w.m.).

Combination in *Lasius (Chthonolasius)*: Emery, 1925b: 234.

As unavailable (infrasubspecific) name: Emery, 1925b: 234; Stärcke, 1926: 122 (in key).

Subspecies of mixtus: Stitz, 1939: 299.

Junior synonym of *umbratus*: Stärcke, 1937: 56; Wilson, 1955a: 151; Bernard, 1967: 363; Smith, D.R. 1979: 1439.

Status as species: Bondroit, 1920a: 143; Seifert, 1988a: 147 (redescription); Seifert, 1990: 11; Bolton, 1995b: 225; Markó, Sipos, *et al.* 2006: 69; Bráčko, 2007: 20; Seifert, 2007: 282; Werner & Wiezik, 2007: 142; Casevitz-Weulersse & Galkowsky, 2009: 485; Boer, 2010: 39; Czechowski, *et al.* 2012: 286; Borowiec, L. 2014: 90; Lebas, *et al.* 2016: 206; Radchenko, 2016: 381; Seifert, 2018: 284.

sakagamii. *Lasius sakagamii* Yamauchi & Hayashida, 1970: 504, figs. 3, 4, 6, 9, 10 (w.q.m.) JAPAN.

Status as species: Yamauchi, 1979: 157; Onoyama, 1980: 199; Morisita, *et al.* 1991: 27; Seifert, 1992b: 42 (redescription); Bolton, 1995b: 225; Imai, *et al.* 2003: 62.

sancho. *Lasius (Chthonolasius) umbratus* st. *ibericus* var. *sancho* Santschi, 1925g: 350 (w.) SPAIN; unavailable (infrasubspecific) name.

Declared as unavailable (infrasubspecific) name: Bolton, 1995b: 225.

Material referred to *flavus* by Wilson, 1955a: 112; Collingwood, 1978: 72; Smith, D.R. 1979: 1437; Seifert, 1990: 12.

schaeferi. *Lasius (Lasius) schaeferi* Seifert, 1992b: 40, fig. 30 (w.q.m.) CHINA (Tibet).

Status as species: Bolton, 1995b: 225; Guénard & Dunn, 2012: 34.

***schiefferdeckeri**. **Lasius schiefferdeckeri* Mayr, 1868b: 44, pl. 1, fig. 2; pl. 2, figs. 27-32 (w.q.m.) BALTIC AMBER (Eocene).

Combination in *Lasius (Lasius)*: Wilson, 1955a: 52.

Status as species: Scudder, 1891: 714; Dalla Torre, 1893: 191; André, 1895b: 82 (in list); Handlirsch, 1907: 861; Wheeler, W.M. 1915h: 120; Wilson, 1955a: 52 (redescription); Burnham, 1979: 114; Keilbach, 1982: 279; Bolton, 1995b: 225; Dlussky & Perkovsky, 2002: 12; Dlussky & Rasnitsyn, 2009: 1030; Dlussky, 2011: 211 (redescription); Perkovsky, 2016: 114.

Senior synonym of *edentatus: Wilson, 1955a: 52; Bolton, 1995b: 225; Dlussky & Perkovsky, 2002: 12; Dlussky, 2011: 211.

schulzi. *Lasius (Lasius) schulzi* Seifert, 1992b: 24, fig. 18 (w.q.) TURKEY.

Status as species: Bolton, 1995b: 225; Kiran & Karaman, 2012: 13; Borowiec, L. 2014: 90.

silvestrii. *Lasius (Chthonolasius) silvestrii* Wheeler, W.M. 1928d: 120 (q.) JAPAN.

Status as species: Santschi, 1941: 278; Chapman & Capco, 1951: 201.

Junior synonym of *umbratus*: Wilson, 1955a: 150; Smith, D.R. 1979: 1439; Yamauchi, 1979: 168; Onoyama, 1980: 200; Bolton, 1995b: 225; Imai, *et al.* 2003: 60; Radchenko, 2016: 373.

sitiens. *Lasius (Lasius) sitiens* Wilson, 1955a: 108 (w.q.m.) U.S.A. (Arizona, Colorado, New Mexico), MEXICO (Durango).

Status as species: Smith, M.R. 1958c: 148; Cole, 1966: 20 (in key); Hunt & Snelling, 1975: 22; Smith, D.R. 1979: 1437; Allred, 1982: 482; Wheeler, G.C. & Wheeler, J. 1986g: 66; Mackay, Lowrie, *et al.* 1988: 119; Bolton, 1995b: 225; Mackay & Mackay, 2002: 386.

sitkaensis. *Lasius niger* subsp. *sitkaensis* Pergande, 1900: 519 (w.) U.S.A. (Alaska).

Wheeler, W.M. 1917a: 525 (q.m.).

Combination in *Lasius (Lasius)*: Wheeler, W.M. 1916k: 172; Wilson, 1955a: 36.

Subspecies of *niger*: Wheeler, W.M. 1910g: 569; Wheeler, W.M. 1916k: 172; Wheeler, W.M. 1917a: 524; Wheeler, W.M. 1917e: 18; Emery, 1925b: 230; Essig, 1926: 866;

Menozzi, 1932b: 311; Cole, 1936a: 37; Cole, 1937b: 137; Wing, 1939: 164; Cole, 1942: 374; Wheeler, G.C. & Wheeler, E.W. 1944: 255; Smith, M.R. 1951a: 851.

Status as species: Wilson, 1955a: 36 (redescription); Smith, M.R. 1958c: 148; Collingwood, 1962: 219; Beck, *et al.* 1967: 71; Smith, M.R. 1967: 367; Wheeler, G.C. & Wheeler, J. 1978: 393.

Junior synonym of *neoniger*: Creighton, 1950a: 420.

Junior synonym of *pallitarsis*: Francoeur & Béique, 1966: 144; Smith, D.R. 1979: 1437; Blacker, 1992: 9; Bolton, 1995b: 225; Coovert, 2005: 123.

sonobei. *Lasius (Cautolasius) sonobei* Yamauchi, 1979: 163, figs. 1-5 (w.q.m.) JAPAN.

Status as species: Onoyama, 1980: 199; Morisita, *et al.* 1991: 27; Bolton, 1995b: 225; Imai, *et al.* 2003: 61.

spathepus. *Lasius spathepus* Wheeler, W.M. 1910b: 130, fig. 1 (q.) JAPAN.

Wheeler, W.M. 1928d: 122 (w.); Wilson, 1955a: 149 (m.).

Combination in *Lasius (Dendrolasius)*: Wheeler, W.M. 1916k: 172 (footnote); Emery, 1925b: 236.

Subspecies of fuliginosus: Teranishi, 1927: 90; Teranishi, 1940: 21.

Status as species: Emery, 1925b: 236; Wheeler, W.M. 1928d: 121 (redescription); Teranishi, 1940: 76 (redescription); Azuma, 1951: 88; Chapman & Capco, 1951: 202; Azuma, 1953: 4; Azuma, 1955: 80; Wilson, 1955a: 147 (redescription); Yamauchi & Hayashida, 1968: 401 (in key); Collingwood, 1976: 306; Azuma, 1977: 117; Yamauchi, 1979: 172; Onoyama, 1980: 200; Kupyanskaya, 1989: 787 (redescription); Kupyanskaya, 1990: 231; Morisita, *et al.* 1991: 28; Bolton, 1995b: 225; Imai, *et al.* 2003: 59; Radchenko, 2005a: 89 (redescription); Radchenko, 2005b: 172.

speculiventris. *Lasius speculiventris* Emery, 1893i: 641 (w.m.) U.S.A. (New Jersey).

Wilson, 1955a: 172 (q.).

Combination in *Lasius (Formicina)*: Wheeler, W.M. 1916k: 172;

combination in *Lasius (Chthonolasius)*: Emery, 1925b: 235; Wilson, 1955a: 171.

As unavailable (infrasubspecific) name: Wheeler, W.M. 1916m: 593.

Subspecies of umbratus: Wheeler, W.M. 1910e: 242; Wheeler, W.M. 1910g: 569; Wheeler, W.M. 1916k: 172; Wheeler, W.M. 1917h: 167; Emery, 1925b: 235; Smith, M.R. 1951a: 852.

Status as species: Wheeler, W.M. 1905f: 397; Creighton, 1950a: 423; Wilson, 1955a: 171 (redescription); Smith, M.R. 1958c: 149; Smith, M.R. 1967: 368; Francoeur, 1977b: 207; Wheeler, G.C. & Wheeler, J. 1977b: 2; Smith, D.R. 1979: 1439; DuBois & LaBerge, 1988: 149; Wheeler, G.C., *et al.* 1994: 308; Bolton, 1995b: 225; Coovert, 2005: 126; Ellison, *et al.* 2012: 200.

subglaber. *Lasius (Acanthomyops) claviger* var. *subglaber* Emery, 1893i: 642 (w.q.m.) U.S.A. (District of Columbia).

Wheeler, G.C. & Wheeler, J. 1953c: 155 (l.).

Combination in *Acanthomyops*: Creighton, 1950a: 433;

combination in *Lasius*: Ward, 2005: 13.

Subspecies of claviger: Wheeler, W.M. 1905f: 398; Wheeler, W.M. 1908f: 623; Wheeler, W.M. 1910g: 569; Wheeler, W.M. 1916k: 172; Wheeler, W.M. 1917a: 533; Emery, 1925b: 237; Wing, 1939: 164; Wheeler, G.C. & Wheeler, E.W. 1944: 256; Smith, M.R. 1951a: 853.

Status as species: Creighton, 1950a: 433; Buren, 1950: 185; Smith, M.R. 1958c: 151; Smith, M.R. 1967: 369; Wing, 1968: 121 (redescription); Francoeur, 1977b: 207; Wheeler, G.C. & Wheeler, J. 1977b: 5 (in key); Smith, D.R. 1979: 1442; Wheeler, G.C., *et al.* 1994: 305; Bolton, 1995b: 53; Coovert, 2005: 132; Ellison, *et al.* 2012: 201.

Senior synonym of *clavigeroides*: Creighton, 1950a: 433; Smith, M.R. 1958c: 151; Wing, 1968: 121; Smith, D.R. 1979: 1442; Bolton, 1995b: 53.

***subniger*.** *Lasius subniger* Pergande, 1900: 520 (in text). *Nomen nudum*.

***subumbratus*.** *Lasius umbratus* subsp. *subumbratus* Viereck, 1903: 72 (q.) U.S.A. (New Mexico). Wheeler, W.M. 1910e: 238 (w.m.).

Combination in *Lasius (Formicina)*: Wheeler, W.M. 1916k: 172;

combination in *Lasius (Chthonolasius)*: Emery, 1925b: 235; Wilson, 1955a: 175.

Subspecies of *umbratus*: Wheeler, W.M. 1910e: 238 (redescription); Wheeler, W.M. 1910g: 569; Wheeler, W.M. 1916k: 172; Wheeler, W.M. 1917a: 528; Wheeler, W.M. 1917h: 167; Emery, 1925b: 235; Cole, 1937b: 137; Wing, 1939: 164; Cole, 1942: 375; Smith, M.R. 1951a: 852.

Status as species: Creighton, 1950a: 424; Wilson, 1955a: 175 (redescription); Smith, M.R. 1958c: 149; Smith, M.R. 1967: 368; Kutter, 1968b: 206; Hunt & Snelling, 1975: 22; Francoeur, 1977b: 207; Yensen, *et al.* 1977: 184; Smith, D.R. 1979: 1439; Allred, 1982: 482; Wheeler, G.C. & Wheeler, J. 1986g: 67; Mackay, Lowrie, *et al.* 1988: 119; Wheeler, G.C., *et al.* 1994: 308; Bolton, 1995b: 226; Mackay & Mackay, 2002: 387; Coovert, 2005: 127; Ward, 2005: 64; Ellison, *et al.* 2012: 202.

***subvillosum*.** *Lasius (Chthonolasius) affinis* subsp. *subvillosum* Arnol'di, 1948: 212 (in list). *Nomen nudum*.

***talpa*.** *Lasius (Cautolasius) talpa* Wilson, 1955a: 136 (w.q.m.) JAPAN.

Imai, 1966: 119 (k.).

Status as species: Collingwood, 1976: 306; Azuma, 1977: 117; Yamauchi, 1979: 161; Onoyama, 1980: 199; Morisita, *et al.* 1991: 28; Collingwood, 1982: 291; Bolton, 1995b: 226; Imai, *et al.* 2003: 61; Lin & Wu, 2003: 61; Radchenko, 2005b: 172; Terayama, 2009: 207 (in key).

***tapinomoides*.** *Lasius tapinomoides* Salata & Borowiec, 2018b: 142, figs. 1-7 (w.q.) GREECE (Crete I.).

Status as species: Salata & Borowiec, 2018c: 46.

***tebessae*.** *Lasius (Lasius) tebessae* Seifert, 1992b: 37, fig. 27 (w.q.) ALGERIA.

Status as species: Bolton, 1995b: 226; Vonshak, *et al.* 2009: 40; Borowiec, L. 2014: 90.

***teranishii*.** *Lasius (Chthonolasius) teranishii* Wheeler, W.M. 1928d: 120 (q.) JAPAN.

Yamauchi & Hayashida, 1968: 399 (w.m.).

Combination in *Lasius (Dendrolasius)*: Wilson, 1955a: 146.

Status as species: Azuma, 1951: 88; Chapman & Capco, 1951: 202; Wilson, 1955a: 146 (redescription); Yamauchi & Hayashida, 1968: 399; Collingwood, 1976: 306; Yamauchi, 1979: 174; Onoyama, 1980: 200; Kupyanskaya, 1989: 786 (redescription); Bolton, 1995b: 226; Imai, *et al.* 2003: 59.

Junior synonym of *umbratus*: Azuma, 1955: 80.

Junior synonym of *orientalis*: Radchenko, 2005a: 87; Radchenko, 2005b: 171.

****terreus*** Scudder, 1878; see under ***EOFORMICA**.

****tertiarius*.** **Lasius tertarius* Zalessky, 1949: 50, figs. 1-5 (q.) UKRAINE (Miocene).

Status as species: Burnham, 1979: 114; Bolton, 1995b: 226.

***tibialis*.** *Lasius (Chthonolasius) tibialis* Santschi, 1936c: 208 (q.) MOROCCO.

Junior synonym of *rabaudi*: Wilson, 1955a: 168; Bernard, 1967: 364; Bolton, 1995b: 226.

Status as species: Cagniant, 2006a: 194.

***timida*.** *Formica timida* Foerster, 1850a: 35 (w.) GERMANY.

Schenck, 1852: 54 (q.m.).

Status as species: Schenck, 1852: 53; Mayr, 1855: 361 (redescription); Gredler, 1858: 14.

Junior synonym of *brunneus*: Nylander, 1856b: 68; Smith, F. 1858b: 7; Roger, 1859: 239; Mayr, 1861: 50 (in key); Mayr, 1863: 425; Roger, 1863b: 11; André, 1874: 202 (in list);

Forel, 1874: 97 (in list); Emery & Forel, 1879: 452; Dalla Torre, 1893: 182; Ruzsky, 1905b: 310; Forel, 1915d: 52 (in key); Müller, 1923b: 127; Emery, 1925b: 228; Donisthorpe, 1927b: 247; Karavaiev, 1936: 198; Baroni Urbani, 1971c: 203; Pisarski, 1975: 33; Seifert, 1992b: 6; Bolton, 1995b: 226; Czechowski, *et al.* 2002: 104; Czechowski, *et al.* 2012: 261; Radchenko, 2016: 366.

***transylvanica*.** *Lasius transylvanica* Röszler, 1943: 44 (w.q.m.) ROMANIA.

Status as species: Stärcke, 1944a: 157 (in key).

Junior synonym of *niger*: Wilson, 1955a: 60; Smith, D.R. 1979: 1436; Bolton, 1995b: 226.

Junior synonym of *alienus*: Gallé, *et al.* 1998: 217.

Unidentifiable taxon, *incertae sedis* in *Lasius*: Seifert, 1992b: 48.

****truncatus*.** **Lasius truncatus* Zhang, J. 1989: 294, fig. 295 (q.) CHINA (Shandong, Miocene).

***turcicus*.** *Lasius niger* st. *turcica* Santschi, 1921a: 115 (w.q.) TURKEY.

Subspecies of *niger*: Emery, 1925b: 230; Menozzi, 1928a: 127; Santschi, 1934d: 281.

Subspecies of *alienus*: Stärcke, 1944a: 157 (in key).

Junior synonym of *alienus*: Wilson, 1955a: 78; Smith, D.R. 1979: 1435; Arakelian, 1994: 117 (error).

Status as species: Seifert, 1992b: 10 (redescription); Bolton, 1995b: 226; Poldi, *et al.* 1995: 8; Gratiashvili & Barjadze, 2008: 136; Paknia, *et al.* 2008: 154; Legakis, 2011: 27; Borowiec, L. & Salata, 2012: 505; Kiran & Karaman, 2012: 13; Borowiec, L. & Salata, 2013: 358; Borowiec, L. 2014: 90; Lebas, *et al.* 2016: 224; Borowiec, L. & Salata, 2018: 6; Salata & Borowiec, 2018b: 157 (in key); Salata & Borowiec, 2018c: 46.

***turkmenus*.** *Acanthomyops niger* subsp. *alienus* var. *turkmenus* Kuznetsov-Ugamsky, 1927e: 189, fig. 7 (w.) TURKMENISTAN; unavailable (infrasubspecific) name.

As unavailable (infrasubspecific) name: Seifert, 1992b: 48.

Declared as unavailable (infrasubspecific) name: Bolton, 1995b: 226.

Material referred to *alienus* by Wilson, 1955a: 78; Smith, D.R. 1979: 1435; Dlussky, Soyunov & Zabelin, 1990: 159.

***umbratoaffinis*.** *Lasius umbratus* subsp. *affinis* f.interm. *umbratoaffinis* Ruzsky, 1895: 24 (w.) RUSSIA; unavailable (infrasubspecific) name.

As unavailable (infrasubspecific) name: Wheeler, W.M. 1917h: 167.

Declared as unavailable (infrasubspecific) name: Bolton, 1995b: 226.

***umbratus*.** *Formica umbrata* Nylander, 1846b: 1048 (q.m.) SWEDEN, FINLAND (“saltem in Suecia et in Fennia australiori”).

[Misspelled as *umbraus* by Ruzsky, 1914a: 61.]

Schenck, 1852: 59 (w.); Hauschteck, 1962: 219 (k.); Hung, 1969: 456 (k.).

Combination in *Lasius*: Mayr, 1861: 50 (in key);

combination in *Donisthorpea*: Donisthorpe, 1915d: 223;

combination in *Lasius* (*Lasius*): Forel, 1915d: 52;

combination in *Formicina*: Emery, 1916a: 63; Bondroit, 1918: 29;

combination in *Formicina* (*Formicina*): Emery, 1916b: 241;

combination in *Lasius* (*Formicina*): Wheeler, W.M. 1916k: 172; Wheeler, W.M. 1917i: 463;

combination in *Acanthomyops*: Ruzsky, 1925b: 44;

combination in *Acanthomyops* (*Chthonolasius*): Betrem, 1926: 215;

combination in *Chthonolasius*: Kulmatycki, 1922: 79; Ruzsky, 1936: 91;

combination in *Lasius* (*Chthonolasius*): Ruzsky, 1912: 633; Ruzsky, 1914a: 59; Müller, 1923b: 129; Emery, 1925b: 233; Wilson, 1955a: 150.

Status as species: Foerster, 1850a: 39; Schenck, 1852: 59; Mayr, 1855: 365 (redescription);

Smith, F. 1855a: 106; Nylander, 1856b: 70; Gredler, 1858: 14; Smith, F. 1858b: 8, 52;

Mayr, 1861: 50 (in key); Meinert, 1861: 320; Roger, 1863b: 11; Mayr, 1863: 426; Emery,

1869b: 9; Smith, F. 1871b: 2; Dours, 1873: 165; Forel, 1874: 47 (in key); André, 1874: 180 (in key); Emery, 1878a: ix (in list); Emery, 1878b: 47; Emery & Forel, 1879: 452; Saunders, E. 1880: 209; André, 1882b: 195 (in key); White, W.F. 1884: 256; Mayr, 1886d: 430; Cresson, 1887: 257; Forel, 1889: 256; Nasonov, 1889: 24; Forel, 1892i: 307; Lameere, 1892: 64; Dalla Torre, 1893: 191; Ruzsky, 1896: 71; Saunders, E. 1896: 24; Forel, 1900e: 269; Forel, 1901h: 66; Ruzsky, 1902d: 14; Ruzsky, 1903c: 207; Ruzsky, 1905b: 284; Wheeler, W.M. 1906c: 322; Wasmann, 1906: 114 (in key); Bondroit, 1910: 485; Yano, 1910: 421; Karavaiev, 1912b: 587; Ruzsky, 1914a: 61; Stitz, 1914: 86; Donisthorpe, 1915d: 223; Forel, 1915d: 52 (in key); Emery, 1916b: 241; Ruzsky, 1916: 5; Wheeler, W.M. 1916k: 172; Wheeler, W.M. 1917a: 528; Escherich, 1917: 333 (in key); Bondroit, 1918: 29; Nadig, 1918: 340; Bondroit, 1920a: 143; Emery, 1922b: 13; Finzi, 1922: 120; Kulmatycki, 1922: 79; Soudek, 1922: 72; Müller, 1923a: 75; Müller, 1923b: 129; Ruzsky, 1925b: 44; Emery, 1925b: 233; Karavaiev, 1926e: 195; Betrem, 1926: 215; Stärcke, 1926: 122 (in key); Donisthorpe, 1927b: 262; Karavaiev, 1927a: 301; Karavaiev, 1927c: 279 (in key); Lomnicki, 1928: 7; Kuznetsov-Ugamsky, 1929b: 37; Karavaiev, 1930b: 148; Karavaiev, 1931e: 215; Soudek, 1931: 15; Arnol'di, 1933b: 603 (in key); Grandi, 1935: 103; Zimmermann, 1935: 52; Ruzsky, 1936: 91; Karavaiev, 1936: 211 (redescription); Stärcke, 1937: 39; Stitz, 1939: 291; Teranishi, 1940: 22; Novák & Sadil, 1941: 103 (in key); Eidmann, 1941: 26; Holgersen, 1943b: 174 (in key); Holgersen, 1944: 181; Morisita, 1945: 22; Ruzsky, 1946: 70; van Boven, 1947: 185 (in key); Creighton, 1950a: 425; Azuma, 1951: 88; Chapman & Capco, 1951: 202; Azuma, 1955: 80; Wilson, 1955a: 150 (redescription); Ceballos, 1956: 316; Smith, M.R. 1958c: 150; Bernard, 1959: 352; Carter, 1962a: 7 (in list); Collingwood, 1963: 157 (in key); Bernard, 1967: 363 (redescription); Smith, M.R. 1967: 368; Kutter, 1968a: 61; Collingwood & Yarrow, 1969: 80; Baroni Urbani, 1971c: 213; Collingwood, 1971: 165; Banert & Pisarski, 1972: 354; Bourne, 1973: 25; Bolton & Collingwood, 1975: 7 (in key); Hunt & Snelling, 1975: 22; Pisarski, 1975: 38; Azuma, 1977: 117; van Boven, 1977: 151; Francoeur, 1977b: 207; Kutter, 1977c: 232; Yensen, *et al.* 1977: 184; Collingwood, 1978: 90 (in key); Collingwood, 1979: 101; Smith, D.R. 1979: 1439; Yamauchi, 1979: 168; Onoyama, 1980: 199; Allred, 1982: 483; Wheeler, G.C. & Wheeler, J. 1986g: 67; Agosti & Collingwood, 1987a: 58; Agosti & Collingwood, 1987b: 281 (in key); Nilsson & Douwes, 1987: 70; Seifert, 1988a: 150 (redescription); DuBois & LaBerge, 1988: 149; Mackay, Lowrie, *et al.* 1988: 118 (in key); Deyrup, *et al.* 1989: 99; Casevitz-Weulersse, 1990c: 434; Seifert, 1990: 11; Morisita, *et al.* 1991: 28; Atanassov & Dlussky, 1992: 245; Arakelian, 1994: 122; Radchenko, 1994b: 115 (in key); Wheeler, G.C., *et al.* 1994: 308; Bolton, 1995b: 226; Douwes, 1995: 94; Poldi, *et al.* 1995: 8; Espadaler, 1997b: 28; Gallé, *et al.* 1998: 217; Czechowski, *et al.* 2002: 110; Mackay & Mackay, 2002: 388; Deyrup, 2003: 45; Imai, *et al.* 2003: 60; Coovert, 2005: 127; Csösz, & Markó, 2005: 231; Karaman, G.S. & Karaman, 2005: 58; MacGown & Forster, 2005: 64; Radchenko, 2005b: 172; Ward, 2005: 64; Bračko, 2006: 150; Markó, Sipos, *et al.* 2006: 69; Petrov, 2006: 106 (in key); Bračko, 2007: 20; Radchenko, 2007: 34; Seifert, 2007: 282; Werner & Wiezik, 2007: 142; Zryannin & Zryannina, 2007: 234; Gratiashvili & Barjadze, 2008: 135; Casevitz-Weulersse & Galkowsky, 2009: 485; Lapeva-Gjonova, *et al.* 2010: 41; Boer, 2010: 40; Csösz, *et al.* 2011: 58; Karaman, M.G. 2011: 93; Legakis, 2011: 27; Borowiec, L. & Salata, 2012: 505; Czechowski, *et al.* 2012: 274; Ellison, *et al.* 2012: 203; Guénard & Dunn, 2012: 34; Kiran & Karaman, 2012: 13; Borowiec, L. 2014: 90; Bračko, *et al.* 2014: 20; Lebas, *et al.* 2016: 206; Radchenko, 2016: 373; Deyrup, 2017: 210; Salata & Borowiec, 2018c: 45; Schär, Talavera, *et al.* 2018: 6; Seifert, 2018: 285.

Senior synonym of *affinoumbratus*: Wilson, 1955a: 150; Smith, D.R. 1979: 1439; Bolton, 1995b: 226; Radchenko, 2016: 373.

Senior synonym of *belgarum*: Wilson, 1955a: 150; Bernard, 1967: 363; Smith, D.R. 1979: 1439; Seifert, 1988a: 150; Seifert, 1990: 11; Bolton, 1995b: 226; Casevitz-Weulersse & Galkowsky, 2009: 484; Radchenko, 2016: 373.

Senior synonym of *exacutus*: Wilson, 1955a: 150; Smith, D.R. 1979: 1439; Arakelian, 1994: 122; Bolton, 1995b: 226; Radchenko, 2016: 373.

Senior synonym of *hirtiscapus*: Wilson, 1955a: 150; Smith, D.R. 1979: 1439; Seifert, 1990: 11; Bolton, 1995b: 226; Radchenko, 2016: 373.

Senior synonym of *nyaradi*: Wilson, 1955a: 150; Smith, D.R. 1979: 1439; Bolton, 1995b: 226; Radchenko, 2016: 373.

Senior synonym of *osakana*: Wilson, 1955a: 150; Smith, D.R. 1979: 1439; Yamauchi, 1979: 168; Onoyama, 1980: 200; Bolton, 1995b: 226; Imai, *et al.* 2003: 60; Radchenko, 2016: 373.

Senior synonym of *silvestrii*: Wilson, 1955a: 150; Smith, D.R. 1979: 1439; Yamauchi, 1979: 168; Onoyama, 1980: 200; Bolton, 1995b: 226; Imai, *et al.* 2003: 60; Radchenko, 2016: 373.

Material of the *nomina nuda mixtoaffinis, mixtobicornis* referred here by Wilson, 1955a: 150; Bolton, 1995b: 226.

***uzbeki*.** *Lasius (Lasius) uzbeki* Seifert, 1992b: 25, fig. 41 (w.) UZBEKISTAN.

Status as species: Bolton, 1995b: 226; Schultz, R. *et al.* 2006: 205.

****validus*.** **Lasius validus* Zhang, J. 1989: 293, fig. 294 (q.) CHINA (Shandong, Miocene).

***vestitus*.** *Lasius umbratus* subsp. *vestitus* Wheeler, W.M. 1910e: 242 (q.) U.S.A. (Idaho).

Wilson, 1955a: 174 (w.).

Combination in *Lasius (Formicina)*: Wheeler, W.M. 1916k: 172;

combination in *Lasius (Chthonolasius)*: Emery, 1925b: 235; Wilson, 1955a: 173.

Subspecies of *umbratus*: Wheeler, W.M. 1916k: 172; Wheeler, W.M. 1917a: 528; Wheeler, W.M. 1917h: 167; Emery, 1925b: 235; Cole, 1936a: 37; Smith, M.R. 1951a: 852.

Status as species: Creighton, 1950a: 425; Wilson, 1955a: 173 (redescription); Smith, M.R. 1958c: 150; Yensen, *et al.* 1977: 184; Wheeler, G.C. & Wheeler, J. 1978: 393; Smith, D.R. 1979: 1440; Allred, 1982: 483; Wheeler, G.C. & Wheeler, J. 1986g: 67; Bolton, 1995b: 226; Ward, 2005: 64.

Senior synonym of *pilosus*: Wilson, 1955a: 173; Smith, M.R. 1958c: 150; Smith, D.R. 1979: 1440; Bolton, 1995b: 226.

****vetulus*.** **Lasius vetulus* Dlussky, 1981b: 72, figs. 53, 54 (q.m.) RUSSIA (Stavropol Kray, Miocene).

Status as species: Zhang, J. 1989: 291; Bolton, 1995b: 226.

***viehmeyeri*.** *Lasius umbratus* var. *viehmeyeri* Emery, 1922b: 13, fig. 2 (w.q.) GREECE.

Boer, 2003: 321 (w.).

Combination in *Lasius (Chthonolasius)*: Emery, 1925b: 234.

Junior synonym of *umbratus*: Emery, 1925b: 234; Wilson, 1955a: 152; Bernard, 1967: 363; Smith, D.R. 1979: 1439.

Status as species: Stärcke, 1937: 53; Seifert, 1990: 3 (redescription); Bolton, 1995b: 226; Boer, 2003: 321; Bračko, 2006: 150; Legakis, 2011: 28; Borowiec, L. & Salata, 2012: 506; Borowiec, L. 2014: 91; Lebas, *et al.* 2016: 206; Salata & Borowiec, 2018c: 45.

Senior synonym of *dalmatica*: Seifert, 1990: 3, 11; Bolton, 1995b: 226.

***volgens*.** *Lasius umbratus* subsp. *umbratus* var. *volgens* Stärcke, 1926: 123. *Nomen nudum* (attributed to Bondroit).

***wittmeri*.** *Lasius (Lasius) wittmeri* Seifert, 1992b: 39, fig. 29 (w.) PAKISTAN (Kashmir).

Status as species: Bolton, 1995b: 226; Bharti & Gul, 2013: 57 (in key); Bharti, Guénard, *et al.* 2016: 28.

xerophilus. *Lasius xerophilus* Mackay & Mackay, 1994: 37, figs. 1-7, 9 (w.q.m.) U.S.A. (New Mexico).

Status as species: Bolton, 1995b: 226; Mackay & Mackay, 2002: 389.