

MANICA

aldrichi. *Myrmica (Oreomyrma) aldrichi* Wheeler, W.M. 1914d: 120, fig. 1b (w.) U.S.A. (Idaho).

Combination in *Myrmica (Neomyrma)*: Wheeler, W.M. 1917a: 507;
combination in *M. (Manica)*: Emery, 1921f: 42;
combination in *Manica*: Weber, 1947: 440.

Status as species: Wheeler, W.M. 1917a: 507; Emery, 1921f: 42; Essig, 1926: 862; Cole, 1936a: 36; Creighton, 1950a: 108; Smith, M.R. 1951a: 791.

Junior synonym of *hunteri*: Cole, 1956h: 262 (in text); Smith, M.R. 1958c: 113; Smith, D.R. 1979: 1352; Bolton, 1995b: 249.

bradleyi. *Myrmica bradleyi* Wheeler, W.M. 1909e: 77 (w.) U.S.A. (California).

Cole, 1957c: 210 (q.m.); Wheeler, G.C. & Wheeler, J. 1960b: 6 (l.).

Combination in *Myrmica (Oreomyrma)*: Wheeler, W.M. 1914d: 120;
combination in *M. (Neomyrma)*: Emery, 1915d: 69 (footnote); Forel, 1915c: 364;
combination in *M. (Manica)*: Emery, 1921f: 43;
combination in *Manica*: Weber, 1947: 440.

Status as species: Wheeler, W.M. 1910g: 566; Wheeler, W.M. 1914d: 120; Forel, 1915c: 364; Wheeler, W.M. 1917a: 506; Emery, 1921f: 43; Essig, 1926: 862; Creighton, 1950a: 108; Smith, M.R. 1951a: 791; Cole, 1957c: 210; Smith, M.R. 1967: 351; Wheeler, G.C. & Wheeler, J. 1978: 391; Smith, D.R. 1979: 1352; Wheeler, G.C. & Wheeler, J. 1986g: 25; Bolton, 1995b: 249; Ward, 2005: 33.

Senior synonym of calderoni: Wheeler, W.M. 1915a: 50; Emery, 1921f: 43; Creighton, 1950a: 109; Smith, D.R. 1979: 1352; Bolton, 1995b: 249.

calderoni. *Aphaenogaster (Neomyrma) calderoni* Forel, 1914a: 275 (w.) U.S.A. (Nevada).

Combination in *Myrmica (Neomyrma)*: Emery, 1915d: 69 (footnote).

Junior synonym of *bradleyi*: Wheeler, W.M. 1915a: 50; Emery, 1921f: 43; Creighton, 1950a: 109; Smith, D.R. 1979: 1352; Bolton, 1995b: 249.

hunteri. *Myrmica (Oreomyrma) hunteri* Wheeler, W.M. 1914d: 121, fig. 1c (w.) U.S.A. (Montana).

Cole, 1957c: 212 (m.); Wheeler, G.C. & Wheeler, J. 1972b: 235 (l.).

Combination in *Myrmica (Neomyrma)*: Wheeler, W.M. 1917a: 507;
combination in *M. (Manica)*: Emery, 1921f: 43;
combination in *Manica*: Weber, 1947: 440.

Status as species: Wheeler, W.M. 1917a: 507; Emery, 1921f: 43; Essig, 1926: 862; Creighton, 1950a: 109; Smith, M.R. 1951a: 791; Cole, 1956h: 262; Cole, 1957c: 212; Smith, M.R. 1958c: 113; Smith, M.R. 1967: 351; Yensen, *et al.* 1977: 182; Wheeler, G.C. & Wheeler, J. 1978: 391; Smith, D.R. 1979: 1352; Allred, 1982: 486; Wheeler, G.C. & Wheeler, J. 1986g: 25; Bolton, 1995b: 249; Ward, 2005: 66.

Senior synonym of aldrichi: Cole, 1956h: 262 (in text); Smith, M.R. 1958c: 113; Smith, D.R. 1979: 1352; Bolton, 1995b: 249.

invidia. *Manica invidia* Bolton, 1995b: 249.

Replacement name for *Myrmica mutica* Emery, 1895c: 311. [Junior primary homonym of *Myrmica mutica* Nylander, 1849: 39.]

Status as species: Mackay & Mackay, 2002: 143; Ward, 2005: 66.

leonina. *Myrmica leonina* Losana, 1834: 332, pl. 36, fig. 7 (w.) ITALY.

Status as species: Mayr, 1855: 413 (footnote).

Junior synonym of *rubida*: Roger, 1859: 252; Mayr, 1861: 63 (in key); Mayr, 1863: 434; Roger, 1863b: 28; André, 1874: 203 (in list); Forel, 1874: 101 (in list); Emery & Forel, 1879: 461; Dalla Torre, 1893: 113; Ruzsky, 1905b: 656; Emery, 1921f: 43; Baroni Urbani, 1971c: 21; Bolton, 1995b: 249; Radchenko, 2016: 162.

montana. *Myrmica montana* Labram & Imhoff, 1838, pl. 36, figs. 1-3 (w.q.m.) SWITZERLAND.

Status as species: Mayr, 1853b: 110 (redescription).

Junior synonym of *rubida*: Mayr, 1855: 400; Mayr, 1863: 434; André, 1874: 203 (in list); Forel, 1874: 101 (in list); Emery & Forel, 1879: 461; Dalla Torre, 1893: 113; Ruzsky, 1905b: 656; Emery, 1921f: 43; Baroni Urbani, 1971c: 21; Bolton, 1995b: 249; Radchenko, 2016: 162.

mutica. *Myrmica mutica* Emery, 1895c: 311 (w.) U.S.A. (Colorado).

[**Junior primary homonym** of *Myrmica mutica* Nylander, 1849: 39.]

Wheeler, W.M. 1914d: 120 (q.m.); Wheeler, G.C. & Wheeler, J. 1960b: 5 (l.).

Combination in *Myrmica (Oreomyrma)*: Wheeler, W.M. 1914d: 119;

combination in *M. (Neomyrma)*: Emery, 1915d: 69 (footnote); Forel, 1915c: 364;

combination in *M. (Manica)*: Emery, 1921f: 43;

combination in *Manica*: Wheeler, G.C. & Wheeler, E.W. 1944: 244.

Status as species: Wheeler, W.M. 1910g: 566; Wheeler, W.M. 1914d: 119 (redescription); Forel, 1915c: 364; Wheeler, W.M. 1917a: 507; Emery, 1921f: 43; Essig, 1926: 862; Cole, 1936a: 36; Cole, 1937b: 135; Wheeler, G.C. & Wheeler, E.W. 1944: 244; Creighton, 1950a: 109; Smith, M.R. 1951a: 791; Cole, 1953e: 243; Cole, 1957c: 213 (in key); Smith, M.R. 1958c: 113; Smith, M.R. 1967: 351; Wheeler, G.C. & Wheeler, J. 1972b: 235; Yensen, et al. 1977: 182; Smith, D.R. 1979: 1352; Snelling, R.R. & George, 1979: 46; Allred, 1982: 486; Wheeler, G.C. & Wheeler, J. 1986g: 25.

Replacement name: *Manica invidia* Bolton, 1995b: 249.

parasitica. *Myrmica (Manica) parasitica* Creighton, 1934: 185 (w.) U.S.A. (California).

Combination in *Manica*: Weber, 1947: 440.

Status as species: Creighton, 1950a: 109; Smith, M.R. 1951a: 791; Kutter, 1968b: 203; Smith, D.R. 1979: 1352; Wheeler, G.C. & Wheeler, J. 1986g: 25 (in key); Bolton, 1995b: 249; Ward, 2005: 33.

rubida. *Formica rubida* Latreille, 1802c: 267, pl. 10, fig. 65 (q.) FRANCE.

Mayr, 1855: 400 (w.m.); Hauschteck, 1965: 325 (k.); Wheeler, G.C. & Wheeler, J. 1972b: 236 (l.).

Combination in *Manica*: Jurine, 1807: 279;

combination in *Myrmica*: Schenck, 1852: 132; Smith, F. 1858b: 114; Mayr, 1861: 63 (in key); Roger, 1863b: 28; Emery, 1878b: 52;

combination in *Myrmica (Oreomyrma)*: Wheeler, W.M. 1914d: 118;

combination in *Myrmica (Neomyrma)*: Emery, 1915d: 69 (footnote); Forel, 1915c: 364;

combination in *Neomyrma*: Bondroit, 1918: 97; Röszler, 1950: 221;

combination in *Myrmica (Manica)*: Emery, 1921f: 43;

combination in *Manica*: Weber, 1947: 440.

Status as species: Jurine, 1807: 279; Schilling, 1839: 56; Schenck, 1852: 132; Mayr, 1855: 400 (redescription); Nylander, 1856b: 77; Gredler, 1858: 20; Roger, 1859: 252; Mayr, 1861: 63 (in key); Roger, 1863b: 28; Mayr, 1863: 434; Dours, 1873: 167; Forel, 1874: 75 (in key); André, 1874: 192 (in key); Emery, 1878b: 52; Emery & Forel, 1879:

461; André, 1883a: 315 (in key); Nasonov, 1889: 33; Forel, 1892i: 315; Dalla Torre, 1893: 113; Ruzsky, 1902d: 29; Forel, 1904b: 374; Ruzsky, 1905b: 656; Emery, 1908a: 167; Bondroit, 1910: 494; Stitz, 1914: 71; Forel, 1915c: 364; Forel, 1915d: 32 (in key); Emery, 1916b: 121; Escherich, 1917: 325 (in key); Menozzi, 1918: 82; Bondroit, 1918: 97; Nadig, 1918: 339; Emery, 1921f: 43; Finzi, 1922: 120; Soudek, 1922: 40; Kulmatycki, 1922: 78; Müller, 1923b: 39; Soudek, 1923: 110; Schkaff, 1925: 274; Finzi, 1926: 81; Karavaiev, 1926b: 96; Stärcke, 1926: 85 (in key); Kuznetsov-Ugamsky, 1929b: 44; Grandi, 1935: 98; Stitz, 1939: 68; Novák & Sadil, 1941: 75 (in key); Röszler, 1950: 221; Sadil, 1952: 239; Ceballos, 1956: 296; Bernard, 1967: 125 (redescription); Kutter, 1968a: 59; Baroni Urbani, 1971c: 21; Collingwood, 1971: 156; Banert & Pisarski, 1972: 347; Pisarski, 1975: 9; Hamann & Klemm, 1976: 670; Aktaç, 1977: 118; van Boven, 1977: 122; Kutter, 1977c: 40; Arnol'di & Dlussky, 1978: 535 (in key); Collingwood, 1978: 76 (in key); Agosti & Collingwood, 1987a: 53; Agosti & Collingwood, 1987b: 267 (in key); Atanassov & Dlussky, 1992: 77; Arakelian, 1994: 28; Bolton, 1995b: 249; Poldi, *et al.* 1995: 2; Gallé, *et al.* 1998: 214; Czechowski, *et al.* 2002: 34; Markó & Csösz, 2002: 111; Karaman, G.S. & Karaman, 2005: 53; Bračko, 2006: 137; Markó, Sipos, *et al.* 2006: 69; Petrov, 2006: 86 (in key); Bračko, 2007: 17; Seifert, 2007: 193; Werner & Wiezik, 2007: 139; Gratiashvili & Barjadze, 2008: 139; Casevitz-Weulersse & Galkowski, 2009: 488; Lapeva-Gjonova, *et al.* 2010: 7; Boer, 2010: 54; Csösz, *et al.* 2011: 56; Karaman, M.G. 2011b: 35; Legakis, 2011: 4; Borowiec, L. & Salata, 2012: 511; Czechowski, *et al.* 2012: 114; Kiran & Karaman, 2012: 19; Borowiec, L. 2014: 100; Bračko, *et al.* 2014: 14; Lebas, *et al.* 2016: 288; Radchenko, 2016: 162; Salata & Borowiec, 2018c: 46; Seifert, 2018: 153.

Senior synonym of *leonina*: Roger, 1859: 252; Mayr, 1861: 63 (in key); Mayr, 1863: 434; Roger, 1863b: 28; André, 1874: 203 (in list); Forel, 1874: 101 (in list); Emery & Forel, 1879: 461; Dalla Torre, 1893: 113; Ruzsky, 1905b: 656; Emery, 1921f: 43; Baroni Urbani, 1971c: 21; Bolton, 1995b: 249; Radchenko, 2016: 162.

Senior synonym of *montana*: Mayr, 1855: 400; Mayr, 1863: 434; André, 1874: 203 (in list); Forel, 1874: 101 (in list); Emery & Forel, 1879: 461; Dalla Torre, 1893: 113; Ruzsky, 1905b: 656; Emery, 1921f: 43; Baroni Urbani, 1971c: 21; Bolton, 1995b: 249; Radchenko, 2016: 162.

***yessensis*.** *Manica yessensis* Azuma, 1955: 80 (footnote) (w.) JAPAN.

Status as species: Onoyama, 1980: 197; Ogata, 1991b: 80; Morisita, *et al.* 1992: 13; Bolton, 1995b: 249; Imai, *et al.* 2003: 180; Guénard & Dunn, 2012: 44.