

Annotated catalogue of the Evanioidea (Hymenoptera) of the Malagasy subregion

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Abstract

Currently 19 species of the families Evaniidae and Gasteruptiidae (Evanioidea) are known from the Malagasy subregion. The family Evaniidae is represented by 15 species belonging to five genera (*Evania* FABRICIUS, 1775 – two species, *Micrevania* BENOIT, 1952 – eight species, *Parevania* KIEFFER, 1907 – two species, *Prosevania* KIEFFER, 1911 – one species, *Zeuxevania* KIEFFER, 1902 – two species) and the family Gasteruptiidae by four species of the genus *Gasteruption* LATREILLE, 1796.

Key words: Evaniidae, Gasteruptiidae, catalogue, Madagascar, Mauritius, Réunion, Rodrigues, Seychelles, Malagasy subregion.

Zusammenfassung

Zur Zeit sind 19 Arten der Evanioidea aus den Familien Evaniidae und Gasteruptiidae aus der madagassischen Unterregion bekannt. Die Familie Evaniidae ist mit 15 Arten aus fünf Gattungen (*Evania* FABRICIUS, 1775 – zwei Arten, *Micrevania* BENOIT, 1952 – acht Arten, *Parevania* KIEFFER, 1907 – zwei Arten, *Prosevania* KIEFFER, 1911 – eine Art, *Zeuxevania* KIEFFER, 1902 – zwei Arten) vertreten. Von der Familie Gasteruptiidae sind nur vier Arten der Gattung *Gasteruption* LATREILLE, 1796 nachgewiesen.

Introduction

In the Malagasy subregion the superfamily Evanioidea is represented by the families Evaniidae and Gasteruptiidae. There are no records of the Aulacidae.

Recently the family Evaniidae has been catalogued by DEANS (2005). He listed 14 species from the Malagasy Subregion. MADL & GANESHAN (2008) recorded one Oriental species from Mauritius and Rodrigues. Currently 15 species belonging to five genera are known from the Malagasy subregion. The transfer of some *Micrevania* species (in DEANS 2005) to the genus *Prosevania* in MADL & GANESHAN (2008) was caused by an error in the electronic file of M. Madl and is not of taxonomic importance.

The paper of PASTEELS (1956) is still the basis for the identification of the Gasteruptiidae of the whole Ethiopian region. MADL (2013) has catalogued the species of the Ethiopian region excluding the Malagasy subregion. To date only four species of the genus *Gasteruption* LATREILLE, 1796 in the subfamily Gasteruptiinae are recorded from Madagascar. The family is apparently absent from all other islands of the region.

Host records exist only for *Evania appendigaster* (LINNAEUS, 1758) (Evaniidae), which is known from the tropical and subtropical regions worldwide. Species of Evaniidae are parasitoids of cockroaches, and gasteruptionid wasps of solitary bees and wasps.

The catalogue is organized alphabetically and not taxonomically. Printing errors are marked (!). As the countries consist of several islands, they are cited under the „Regional distribution“ chapter name of the country followed by island or island groups, e.g., Mauritius: Mauritius, Rodrigues. The known records from Madagascar are listed province by province from north to south.

Annotated catalogue

Abbreviations:

biol.	biology	distr.	distribution	syn.	synonym
cat.	catalogue	fig. (figs.)	figure (figures)	tax.	taxonomy
descr.	description	pl.	plate	typ. gen.	typus generis

Family Evaniidae

Genus *Evania* FABRICIUS, 1775

Description: FABRICIUS 1775: 345.

Typus generis: *Sphex appendigaster* LINNAEUS, 1758.

Distribution: All zoogeographical regions.

Valid species in the region: 2.

Evania animensis SPINOLA, 1840 incertae sedis

Evania animensis: SPINOLA 1840: 245 (key), 247 (descr., Madagascar). SCHLETTERER 1886: 12 (descr., Madagascar), 41 (cat.). SCHLETTERER 1889: 145 (tax., descr., Madagascar). KIEFFER 1902: 3 (cat.). DE DALLA TORRE 1902: 1076 (cat.). BRADLEY 1908: 165 (key). SCHULZ 1912: 58 (tax.). KIEFFER 1912: 93 (tax., descr., Madagascar). DEANS 2005: 27 (tax., cat.).

Evania (Hyptia?) animensis SPINOLA, 1840: WESTWOOD 1844: 243 (tax., cat.).

Prosevania animensis (SPINOLA, 1840): MADL & GANESHAN 2008: 829 (cat. Malagasy subregion).

Regional distribution: Madagascar: without locality (inclusion of a recent copal).

General distribution: Endemic.

Note: As the types are apparently lost (SCHULZ 1912: 58), the generic position is uncertain.

Evania appendigaster (LINNAEUS, 1758)

Evania appendigaster (LINNAEUS, 1758): MÜLLER 1775: 867 (Mauritius), pl. 26 (fig. 6). OLIVIER 1792: 452 (key), 453 (tax., descr., Mauritius). WESTWOOD 1844: 241 (tax., Mauritius). SCHLETTERER 1886: 6 (key), 10 (tax., descr. ♂♀, Madagascar, Mauritius), 41 (cat.), pl. 1 (figs. 1, 6, 9). SCHLETTERER 1889: 128 (key), 130 (key), 136 (tax., descr. ♂♀, Madagascar, Mauritius), pl. 6 (figs. 4b, 5a, 6a-c). BRANCSIK 1891: 160 (Madagascar). KIEFFER 1902: 3 (cat.), pl. 1 (fig. 3). DE DALLA TORRE 1902: 1076 (cat.). ENDERLEIN 1906: 228 (Madagascar). SCHULZ 1906: 134 (tax., Mauritius). CAMERON 1907: 85 (Seychelles). KIEFFER 1912: 2 (fig. 2), 7 (fig. 9, 10), 67 (key), 83 (tax., descr. ♂♀, Seychelles, Madagascar, Réunion, Mauritius), 84 (figs. 36, 37). BORDAGE 1914: 379 (tax., biol., Réunion), 380 (fig. 16). VON SCHULTHESS 1919: 50 (Madagascar). SCHULZ 1906: 134 (tax., Mauritius). BENOIT 1952: 167 (Madagascar, Mauritius), 178 (key). WILLIAMS 1958: 113 (cat. Mauritius). WILLIAMS 1974: 4 (cat. Mauritius). WILLIAMS 1980: 5 (cat. Mauri-

tius). GANESHAN & WILLIAMS 2005: 5 (cat. Mauritius). DEANS 2005: 27 (cat.). MADL & GANESHAN 2008: 827 (Réunion, Mauritius, Rodrigues), 829 (cat. Malagasy subregion).

Evania (Evania) appendigaster (LINNAEUS, 1758): HEDICKE 1939: 4 (cat.).

Evania Desjardinsi n. sp.: BLANCHARD 1840: 299 (descr. ♂, Mauritius). GUÉRIN-MÉNEVILLE 1843: 334 (syn. of *Evania laevigata* OLIVIER, 1792). BLANCHARD 1850: 299 (tax. descr. ♂, Mauritius).

Evania desjardinsii(!) BLANCHARD, 1840: WESTWOOD 1844: 242 (tax., cat.). WESTWOOD 1851: 214 (tax.). DESMAREST 1860: 172 (biol.). SCHLETTERER 1886: 14 (syn.). DE SAUSSURE 1890: pl. 15 (figs. 31, 31a, 31s, ♂). BORDAGE 1896a: 610 (biol., Réunion). BORDAGE 1896b: 473 (biol., Réunion). SCHULZ 1906: 134 (syn.). SCHULZ 1912: 57 (tax., Réunion, Mauritius). GERSTAECKER 1862: 520 (tax., Mauritius).

Evania laevigata LATREILLE, 1807(!): SMITH 1879: 534 (cat. Rodrigues), 538 (Mauritius, Rodrigues).

Evania laevigata OLIVIER, 1792: LATREILLE 1807: 251 (tax., Mauritius).

Hosts: *Periplaneta americana* (LINNAEUS, 1758) (Blattodea: Blattidae), *Leucaphaea maderae* (FABRICIUS, 1781) (Blattodea: Blaberidae).

Regional distribution: Seychelles: Inner Seychelles (Mahé, Silhouette), Coëtivy. – Madagascar: Prov. Antsiranana: Antsiranana, Montagne d'Ambre, Nosy Be – Prov. Toamasina: Andevoranto, Baie de l'Antongil, Toamasina – Prov. Fianarantsoa: Prefecture Mananjary – Prov. Toliara: Fort Dauphin – Réunion: Réunion. – Mauritius: Mauritius, Rodrigues.

General distribution: Known from all zoogeographical regions.

Genus *Micrevania* BENOIT, 1952

Description: BENOIT 1952: 173.

Typus generis: *Micrevania minuscula* BENOIT, 1952.

Distribution: Ethiopian region.

Valid species in the region: 8.

***Micrevania albicoxa* (VON SCHULTHESS, 1918)**

Evania albicoxa: VON SCHULTHESS 1918: 97 (descr. ♀, Madagascar), 98 (fig. 1). VON SCHULTHESS 1919: 50 (Madagascar).

Evania (Evania) albicoxa VON SCHULTHESS, 1918: HEDICKE 1939: 10 (cat.). BENOIT 1952: 167 (descr. ♂, Madagascar), 179 (key).

Micrevania albicoxa (VON SCHULTHESS, 1918): DEANS 2005: 70 (tax., cat.).

Regional distribution: Madagascar: Prov. Antsiranana: Antsiranana – Prov. Antananarivo: Ambohimanga, Antsirabe, Massif de l'Ankaratra – Prov. Toamasina: Andasibe (Perinet), Andekaleka (Rogez), Ivondro – Prov. Fianarantsoa: Fianarantsoa – Prov. Toliara: Bekily, Fort Dauphin, Ranomafana (leg. Seyrig).

General distribution: Endemic.

Note: *Micrevania albicoxa* is not mentioned by MADL & GANESHAN (2008: 829).

***Micrevania berlandi* (BENOIT, 1952)**

Evania berlandi: BENOIT 1952: 169 (descr. ♂♀, fig. 2, Madagascar), 178 (key).

Micrevania berlandi (BENOIT, 1952): DEANS 2005: 70 (tax., cat.).

Prosevania berlandi (BENOIT, 1952): MADL & GANESHAN 2008: 829 (cat. Malagasy subregion).

Regional distribution: Madagascar: Prov. Antsiranana: Montagne d'Ambre – Prov. Toamasina: Ivondro – Prov. Toliara: Ranomafana (leg. Seyrig).

General distribution: Endemic.

***Micrevania difficilis* BENOIT, 1952**

Micrevania difficilis: BENOIT 1952: 174 (descr. ♂, Madagascar). DEANS & HUBEN 2003: 868 (fig. 13), 873 (fig. 34). DEANS 2005: 70 (tax., cat.). MADL & GANESHAN 2008: 829 (cat. Malagasy subregion).

Regional distribution: Madagascar: Prov. Toamasina: Ivondro.

General distribution: Endemic.

***Micrevania ivondroensis* (BENOIT, 1952)**

Evania ivondroensis: BENOIT 1952: 167 (descr. ♂♀, Madagascar), 179 (key).

Micrevania ivondroensis (BENOIT, 1952): DEANS 2005: 70 (tax., cat.).

Prosevania ivondroensis (BENOIT, 1952): MADL & GANESHAN 2008: 829 (cat. Malagasy subregion).

Regional distribution: Madagascar: Prov. Toamasina: Ivondro.

General distribution: Endemic.

***Micrevania microphthalma* (BENOIT, 1952)**

Evania microphthalma: BENOIT 1952: 168 (descr. ♂, Madagascar), 179 (key).

Micrevania microphthalma (BENOIT, 1952): DEANS 2005: 70 (tax., cat.).

Prosevania microphthalma (BENOIT, 1952): MADL & GANESHAN 2008: 829 (cat. Malagasy subregion).

Regional distribution: Madagascar: Prov. Toamasina: Ivondro – Prov. Toliara: Ranomafana (leg. Seyrig).

General distribution: Endemic.

***Micrevania minuscula* BENOIT, 1952**

Micrevania minuscula: BENOIT 1952: 173 (typ. gen., descr. ♂, Madagascar). MUESEBECK & WALKLEY 1956: 369 (cat. typ. gen.). DEANS 2005: 70 (tax., cat.). MADL & GANESHAN 2008: 829 (cat. Malagasy subregion).

Regional distribution: Madagascar: Prov. Toliara: Bekily.

Endemic.

***Micrevania scintilla* (BENOIT, 1952)**

Evania scintilla: BENOIT 1952: 172 (descr. ♀, Madagascar), 178 (key).

Micrevania scintilla (BENOIT, 1952): DEANS 2005: 70 (tax., cat.).

Prosevania scintilla (BENOIT, 1952): MADL & GANESHAN 2008: 829 (cat. Malagasy subregion).

Regional distribution: Madagascar: Prov. Fianarantsoa: Fianarantsoa.

General distribution: Endemic.

***Micrevania seyrigi* (BENOIT, 1952)**

Evania seyrigi: BENOIT 1952: 170 (descr. ♂♀, Madagascar), 171 (fig. 3), 178 (key).

Micrevania seyrigi (BENOIT, 1952): DEANS 2005: 70 (tax., cat.).

Prosevania seyrigi (BENOIT, 1952): MADL & GANESHAN 2008: 829 (cat. Malagasy subregion).

Regional distribution: Madagascar: Prov. Toliara: Behara, Bekily.

General distribution: Endemic.

Genus *Parevania* KIEFFER, 1907

Description: KIEFFER 1907: 270.

Typus generis: *Parevania semirufa* KIEFFER, 1907.

Distribution: Ethiopian, Oriental and Palaeartic regions.

Valid species in the region: 2.

***Parevania madegassa* BENOIT, 1952**

Parevania madegassa: BENOIT 1952: 174 (descr. ♂♀, Madagascar). DEANS 2005: 74 (cat.). MADL & GANESHAN 2008: 829 (cat. Malagasy subregion).

Parevania madegassa (!) BENOIT, 1952: CEBALLOS 1966: 203 (cat.).

Regional distribution: Madagascar: Prov. Toliara: Antanimora, Bekily.

General distribution: Endemic.

***Parevania plana* BENOIT, 1952**

Parevania plana: BENOIT 1952: 176 (descr. ♂, Madagascar). CEBALLOS 1966: 203 (cat.). DEANS 2005: 75 (cat.). MADL & GANESHAN 2008: 829 (cat. Malagasy subregion).

Regional distribution: Madagascar: Prov. Toliara: Antanimora.

General distribution: Endemic.

Genus *Prosevania* KIEFFER, 1911

Description: KIEFFER 1911: 157 (described as subgenus).

Typus generis: *Evania afra* KIEFFER, 1911.

Distribution: Ethiopian, Oriental and Palaeartic regions.

Valid species in the region: 1.

***Prosevania erythrosoma* (SCHLETTERER, 1886)**

Prosevania erythrosoma (SCHLETTERER, 1886): MADL & GANESHAN 2008: 828 (Mauritius, Rodrigues), 829 (cat. Malagasy subregion).

Regional distribution: Réunion: Réunion (see note), Mauritius: Mauritius, Rodrigues.

General distribution: Known from the Oriental region.

Note: I have seen good pictures of *Prosevania erythrosoma* from Réunion by Mr. Martiré.

Genus *Zeuxevania* KIEFFER, 1902

Description: KIEFFER 1902: 4.

Typus generis: *Evania dinarica* SCHLETTERER, 1889 (= *Zeuxevania splendidula* (COSTA, 1884)).

Distribution: Ethiopian and Palaeartic regions.

Valid species in the region: 2.

***Zeuxevania lamellata* BENOIT, 1952**

Zeuxevania lamellata: BENOIT 1952: 176 (descr. ♂, Madagascar). DEANS 2005: 108 (cat.). MADL & GANESHAN 2008: 829 (cat. Malagasy subregion).

Regional distribution: Madagascar: Prov. Toliara: Behara, Bekily.

General distribution: Endemic.

***Zeuxevania variabilis* BENOIT, 1952**

Zeuxevania variabilis: BENOIT 1952: 177 (descr. ♂♀, Madagascar). DEANS 2005: 110 (cat.). MADL & GANESHAN 2008: 829 (cat. Malagasy subregion).

Regional distribution: Madagascar: Prov. Antananarivo: Massif de l'Ankaratra – Prov. Toamasina: Andasibe (Perinet), Andekaleka (Rogez), Ivondro – Prov. Fianarantsoa: Ambositra.

General distribution: Endemic.

Family Gasteruptiidae

Genus *Gasteruption* LATREILLE, 1796

Description: LATREILLE 1796: 113.

Typus generis: *Ichneumon assectator* LINNAEUS, 1758.

Distribution: All zoogeographical regions.

Valid species in the region: 4.

***Gasteruption ferrugineum* PASTEELS, 1956**

Gasteruption ferrugineum: PASTEELS 1956: 13 (key), 59 (descr. ♂♀, Madagascar), 60 (figs. 41a-f).

Regional distribution: Madagascar: Prov. Toliara: Behara, Fort-Dauphin.

General distribution: Endemic.

***Gasteruption madagascarensis* BENOIT, 1984**

Gasteruption madagascarensis: BENOIT 1984: 710 (replacement name for *Gasteruption depressum madecassum*, Madagascar).

Gasteruption depressum madecassum: PASTEELS 1956: 19 (key), 81 (descr. ♂, Madagascar).

Regional distribution: Madagascar: Prov. Toliara: Behara, Bekily.

General distribution: Endemic.

Note: *Gasteruption depressum madecassum* PASTEELS, 1956 is a junior homonym of *Gasteruption pedicellatum madecassum* PASTEELS, 1956.

***Gasteruption pedicellatum madecassum* PASTEELS, 1956**

Gasteruption pedicellatum madecassum n. subsp.: PASTEELS 1956: 16 (key), 50 (descr. ♂♀, Madagascar). BENOIT 1984: 714 (tax., Madagascar).

Regional distribution: Madagascar: Prov. Antsiranana: Nosy Komba – Prov. Toliara: Bekily.

General distribution: Endemic.

***Gasteruption seyrigi* PASTEELS, 1956**

Gasteruption Seyrigi: PASTEELS 1956: 19 (key), 83 (descr. ♂♀, Madagascar), 84 (figs. 62a-e).

Regional distribution: Madagascar: Prov. Toamasina: Andekaleka (Rogez) – Prov. Toliara: Bekily.

General distribution: Endemic.

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References

- BENOIT P.L.G., 1952: Les Evaniidae Malgaches (Hym.-Terebr.). – Mémoires de l'Institut Scientifique de Madagascar, Série E, 1(1): 165-179.
- BENOIT P.L.G., 1984: Contribution à la connaissance des Gasteruptionidae africains (Hymenoptera). – Revue de Zoologie Africaines 98(4): 709-718.
- BLANCHARD E., 1840: Orthoptères, Névroptères, Hyménoptères, Lépidoptères et Diptères. – In: Histoire Naturelle des Animaux Articulés, Annelides, Crustacées Arachnides, Myriapodes et Insectes 3: 672 pp.
- BLANCHARD E., 1850: Huitième Famille. – Evaniens. – In: BLANCHARD E., CASTELNAU C. DE & BRULLÉ A. (eds.): Animaux Articulés. Des Insectes. Orthoptères, Névroptères, Hyménoptères, Lépidoptères et Diptères: 298-300. (not seen)
- BORDAGE E. 1896a: Mœurs d'*Evania Desjardinsii* BLANCH. – Comptes Rendus d'Académie des Sciences 123: 610-613. (not seen)
- BORDAGE E., 1896b: On the Habits of *Evania Desjardinsii*, BLANCH. – Annals and Magazine of Natural History, 6th series, 18(108): 473-475.
- BORDAGE E., 1914: Notes biologiques recueillies à l'Ile de la Réunion. – Bulletin Scientifique de la France et de la Belgique 47: 377-412.
- BRADLEY C., 1908: The Evaniidae, ensign-flies, an archaic family of Hymenoptera. – Transactions of the American Entomological Society 34: 101-194, pls. V-XV.
- BRANCSIK K., 1891: Beiträge zur Kenntniss Nossibé's und dessen Fauna nach Sendungen und Mittheilungen des Herrn P. Frey. – Jahreshft des Naturwissenschaftlichen Vereins in Trencsén 14: 123-167.
- CAMERON P., 1907: Hymenoptera. – Transactions of the Linnean Society of London, 2nd series, 12(1): 69-86.
- CEBALLOS G., 1966: Una *Parevania* de la región mediterránea (Hym. Evaniidae). – EOS, Revista Española de Entomología 61(2-3): 199-204.
- DALLA TORRE C. G. DE, 1901-1902: Catalogus hymenopterorum hucusque descriptorum systematicus et synonymicus Volumen III: Trigonalidae, Megalyridae, Stephanidae, Ichneumonidae, Agriotypidae, Evaniidae, Pelecinidae. – Wilhelm Engelmann, Leipzig, pp. I-VIII + 1-544 (1901); pp. 545-1141 (1902).
- DEANS A., 2005: Annotated catalog of the world's ensign wasp species (Hymenoptera: Evaniidae). – Contributions of the American Entomological Institute 34(1): 1-164.
- DEANS A.R. & HUBEN M., 2003: Annotated key to the ensign wasp (Hymenoptera: Evaniidae) genera of the world, with descriptions of three new genera. – Proceedings of the Entomological Society of Washington 105(4): 859-875.
- DESMAREST E., 1859-1860: Anneles. – In: CHENU (ed.): Encyclopédie d'Histoire Naturelle: 312 pp.
- ENDERLEIN G., 1906: Neue Evaniiden, besonders aus Sumatra. – Stettiner Entomologische Zeitung 67(2): 227-245.
- GANESHAN S. & WILLIAMS J.R., 2001: Entomological parasitoid-host records from Mauritius (2nd, revised edition). – Mauritius Sugar Industry Research Institute, Occasional Paper 36: 45 pp.
- GERSTAECKER A., 1862: Hymenoptera. Hautflügler. – In: PETERS W.C. (ed.): Naturwissenschaftliche Reise nach Mossambique auf Befehl seiner Majestät des Königs Friedrich Wilhelm IV

- in den Jahren 1842 bis 1848 ausgeführt von Wilhelm C. H. Peters. Zoologie V. Insecten und Myriopoden. – G. Reimer, Berlin, pp. 439-526, pls. 19-32.
- GUÉRIN-MÉNEVILLE F.E., 1843: Note sur le genre *Evania*, de l'ordre des Hyménoptères. – Revue Zoologique 6(11): 333-336.
- HEDICKE H., 1939: Evaniidae. – In: HEDICKE H. (ed.): Hymenopterorum Catalogus 9: 50 pp.
- KIEFFER J.J., 1902: Hymenoptera, Fam. Evaniidae. – In: WYTSMAN P. (ed.): Genera Insectorum 2: 13 pp.
- KIEFFER J.J., 1904: Description de Stéphanides et d'Evaniides nouveaux. – Bulletin de la Société d'Histoire Naturelle de Metz 23: 1-30.
- KIEFFER J.J., 1912: Evaniidae. – In: SCHULZE F.E. (ed.): Das Tierreich 30: V-XIX + 431 pp.
- LATREILLE P.A., 1807: Genera crustaceorum et insectorum secundum ordinem naturalem in familias disposita, iconibus exemplisque plurimis explicata. Tomus tertius. – A. König, Paris, 258 pp.
- MADL M., 2013: A catalogue of the Gasteruptiidae of the Ethiopian region excluding Malagasy subregion (Hymenoptera: Evanioidea). – Entomofauna 34(1): 1-27.
- MADL M. & GANESHAN S., 2008: Notes on the Evaniidae (Hymenoptera) of the Mascarenes. – Linzer Biologische Beiträge 40(1): 827-831.
- MOUTIA L.A. & MAMET R., 1947: An annotated list of insects and Acarina of economic importance in Mauritius. – Bulletin, Department of Agriculture, Colony of Mauritius, Scientific Series, 29: II + 43 pp.
- MUESEBECK C.F.W. & WALKLEY L.M., 1956: Type species of the genera and subgenera of parasitic wasps comprising the superfamily Proctotrupoidea (Order Hymenoptera). – Proceedings of the United States National Museum 105: 329-419.
- MÜLLER P.L.S., 1775: Von den Insecten. – In: Des Ritters Carl von Linné, Königlich Schwedischen Leibarztes, vollständiges Natursystem nach der zwölften lateinischen Ausgabe und nach Anleitung des holländischen Houtuynischen Werks mit einer ausführlichen Erklärung 5(2): X1-XX6, 761-1166, a-g3, pls. 23-36.
- OLIVIER G.A., 1792: Encyclopedie methodique. Histoire naturelle. Insectes 6(2). – Panckoucke, Paris, pp. 369-704.
- PASTEELS J.J., 1956: Révision du genre *Gasteruption* (Hymenoptera Evanioidea Gasteruptionidae) – I. Espèces de l'Afrique Noire. – Annales du Musée Royal du Congo Belge Tervuren, Série in 8°, Sciences Zoologiques, 50: 94 pp.
- SCHLETTERER A., 1886: Ueber die Hymenopteren-Gattung *Evania* FABR. – Verhandlungen der k. k. Zoologisch-botanischen Gesellschaft in Wien 36: 1-46.
- SCHLETTERER A., 1889: Die Hymenopteren-Gruppe der Evaniiden. – Annalen des k. k. Naturhistorischen Hofmuseums 4 (2): 107-180, pls. 6, 7; (3): 289-338; (4): 339-546, pls. 19-22.
- SCHULTHESS A. VON, 1918: Neue Hymenopteren aus Madagaskar, gesammelt von Dr. K. Friedrichs. – Neue Beiträge zur systematischen Insektenkunde 1(13): 97-101.
- SCHULTHESS A. VON, 1919: Verzeichnis von Dr. K. Friedrichs in Madagaskar erbeuteter Hymenopteren. – In: FRIEDERICHS K.: Beobachtungen über einige solitäre Wespen in Madagaskar. – Mitteilungen aus dem Zoologischen Museum in Berlin 9(1): 46-50.
- SCHULZ W.A., 1906: Strandgut. – In: SCHULZ W.A. (ed.): Spolia Hymenopterologica. – Junfermannsche Buchhandlung Albert Pape, Paderborn, pp. 76-269.
- SCHULZ W.A., 1912: Zweihundert alte Hymenopteren. – Zoologische Annalen 4: 1-220.
- SMITH F., 1879: Zoology of Rodriguez. Hymenoptera, Diptera, and Neuroptera. – Philosophical Transactions of the Royal Society of London 168: 534-540.
- SPINOLA M., 1840: Note monographique sur le genre *Evania*. – Revue Zoologique 1840(8): 244-248.

- WESTWOOD J.O., 1844: On *Evania* and some allied genera of hymenopterous insects. – Transactions of the Entomological Society of London 3(4): 237-278, pls. 14-15.
- WESTWOOD J.O., 1851: Descriptions of some new species of hymenopterous insects belonging to *Evania* and the allied genera, being a supplement to a memoir on those insects published in the third volume of the Transactions of the Entomological Society. – Transactions of the Entomological Society of London, new series, 1(7): 213-234, pl. 7.
- WILLIAMS J.R., 1958: A list of Hymenoptera (excluding Formicidae) recorded from Mauritius. – Bulletin of the Mauritius Institute 5(4): 108-128.
- WILLIAMS J.R., 1974: Entomological parasite-host records from Mauritius. – Mauritius Sugar Industry Research Institute, Occasional Paper 28: 33 pp.
- WILLIAMS J.R., 1980: Entomological parasite-host records from Mauritius (revised edition). – Mauritius Sugar Industry Research Institute, Occasional Paper 32: 39 pp.
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