

University of Nebraska - Lincoln

DigitalCommons@University of Nebraska - Lincoln

Insecta Mundi

Center for Systematic Entomology, Gainesville,
Florida

3-27-2020

Catalogue of species-group names assigned to *Copris* Geoffroy, *Coptodactyla* Burmeister, *Litocopris* Waterhouse, *Microcopris* Balthasar, *Paracopris* Balthasar, *Pseudocopris* Ferreira, *Pseudopedaria* Felsche, *Sinocopris* Ochi, Kon and Bai, and *Thyregis* Blackburn (Coleoptera: Scarabaeidae: Scarabaeinae: Coprini)

Jiri Zidek

Follow this and additional works at: <https://digitalcommons.unl.edu/insectamundi>



Part of the [Ecology and Evolutionary Biology Commons](#), and the [Entomology Commons](#)

This Article is brought to you for free and open access by the Center for Systematic Entomology, Gainesville, Florida at DigitalCommons@University of Nebraska - Lincoln. It has been accepted for inclusion in Insecta Mundi by an authorized administrator of DigitalCommons@University of Nebraska - Lincoln.

INSECTA MUNDI

A Journal of World Insect Systematics

0756

Catalogue of species-group names assigned to *Copris* Geoffroy, *Coptodactyla* Burmeister, *Litocopris* Waterhouse, *Microcopris* Balthasar, *Paracopris* Balthasar, *Pseudocopris* Ferreira, *Pseudopedaria* Felsche, *Sinocopris* Ochi, Kon and Bai, and *Thyregis* Blackburn
(Coleoptera: Scarabaeidae: Scarabaeinae: Coprini)

Jiri Zidek

Date of issue: March 27, 2020

Jiri Zidek

Catalogue of species-group names assigned to *Copris* Geoffroy, *Coptodactyla* Burmeister, *Litocopris* Waterhouse, *Microcopris* Balthasar, *Paracopris* Balthasar, *Pseudocopris* Ferreira, *Pseudopedaria* Felsche, *Sinocopris* Ochi, Kon and Bai, and *Thyregis* Blackburn (Coleoptera: Scarabaeidae: Scarabaeinae: Coprini)

Insecta Mundi 0756: 1–24

ZooBank Registered: urn:lsid:zoobank.org:pub:F527B4DF-81B6-4045-9766-FF6D3A03ADCD

Published in 2020 by

Center for Systematic Entomology, Inc.

P.O. Box 141874

Gainesville, FL 32614-1874 USA

<http://centerforsystematicentomology.org/>

Insecta Mundi is a journal primarily devoted to insect systematics, but articles can be published on any non-marine arthropod. Topics considered for publication include systematics, taxonomy, nomenclature, checklists, faunal works, and natural history. *Insecta Mundi* will not consider works in the applied sciences (i.e. medical entomology, pest control research, etc.), and no longer publishes book reviews or editorials. *Insecta Mundi* publishes original research or discoveries in an inexpensive and timely manner, distributing them free via open access on the internet on the date of publication.

Insecta Mundi is referenced or abstracted by several sources, including the Zoological Record and CAB Abstracts. *Insecta Mundi* is published irregularly throughout the year, with completed manuscripts assigned an individual number. Manuscripts must be peer reviewed prior to submission, after which they are reviewed by the editorial board to ensure quality. One author of each submitted manuscript must be a current member of the Center for Systematic Entomology.

Guidelines and requirements for the preparation of manuscripts are available on the *Insecta Mundi* website at <http://centerforsystematicentomology.org/insectamundi/>

Chief Editor: David Plotkin, insectamundi@gmail.com

Assistant Editor: Paul E. Skelley, insectamundi@gmail.com

Head Layout Editor: Robert G. Forsyth

Editorial Board: J. H. Frank, M. J. Paulsen

Founding Editors: Ross H. Arnett, Jr., Virendra Gupta, John B. Heppner, Lionel A. Stange, Michael C. Thomas, Robert E. Woodruff

Review Editors: Listed on the *Insecta Mundi* webpage

Printed copies (ISSN 0749-6737) annually deposited in libraries

CSIRO, Canberra, ACT, Australia

Museu de Zoologia, São Paulo, Brazil

Agriculture and Agrifood Canada, Ottawa, ON, Canada

The Natural History Museum, London, UK

Muzeum i Instytut Zoologii PAN, Warsaw, Poland

National Taiwan University, Taipei, Taiwan

California Academy of Sciences, San Francisco, CA, USA

Florida Department of Agriculture and Consumer Services, Gainesville, FL, USA

Field Museum of Natural History, Chicago, IL, USA

National Museum of Natural History, Smithsonian Institution, Washington, DC, USA

Zoological Institute of Russian Academy of Sciences, Saint-Petersburg, Russia

Electronic copies (Online ISSN 1942-1354, CDROM ISSN 1942-1362) in PDF format

Printed CD or DVD mailed to all members at end of year. Archived digitally by Portico.

Florida Virtual Campus: <http://purl.fcla.edu/fcla/insectamundi>

University of Nebraska-Lincoln, Digital Commons: <http://digitalcommons.unl.edu/insectamundi/>

Goethe-Universität, Frankfurt am Main: <http://nbn-resolving.de/urn/resolver.pl?urn:nbn:de:hebis:30:3-135240>

Copyright held by the author(s). This is an open access article distributed under the terms of the Creative Commons, Attribution Non-Commercial License, which permits unrestricted non-commercial use, distribution, and reproduction in any medium, provided the original author(s) and source are credited. <http://creativecommons.org/licenses/by-nc/3.0/>

Layout Editor for this article: Robert G. Forsyth

Catalogue of species-group names assigned to *Copris* Geoffroy, *Coptodactyla* Burmeister, *Litocopris* Waterhouse, *Microcopris* Balthasar, *Paracopris* Balthasar, *Pseudocopris* Ferreira, *Pseudopedaria* Felsche, *Sinocopris* Ochi, Kon and Bai, and *Thyregis* Blackburn (Coleoptera: Scarabaeidae: Scarabaeinae: Coprini)

Jiri Zidek
jrzidek@gmail.com

Abstract. Presented are species-group names published in the nine coprine genera (Coleoptera: Scarabaeidae: Scarabaeinae: Coprini) having only one lateral carina on each elytron. The data include authorships, dates and pages of original descriptions, geographic distributions, and references to works pertinent to the topic.

Key words. Genera, species, synonyms, geographic distributions, literature.

Introduction

The subject taxa are united by having only one lateral carina on each elytron. The species have been described either as *Copris* s. str., or placed in subgenera of *Copris* Geoffroy, or regarded as belonging to separate genera. Ferreira (1961b) included in this group also the genus *Copridaspidus* Boucomont, which however has two lateral carinae on each elytron, as do e.g. *Catharsius* Hope and *Metacatharsius* Paulian regarded as belonging in the tribe Dichotomiini (Montreuil 1998; Philips et al. 2004; Davis et al. 2008).

Balthasar's (1939a, 1958) subgenera *Microcopris* (10 species in China and southeastern Asia) and *Paracopris* (22 species in India, Nepal, China and southeastern Asia) were maintained as such by Nguyen-Phung (1988c), Cambefort and Nguyen-Phung (1996) and Marchisio and Zunino (2012), whereas Löbl et al. (2006) and Král and Bezděk (2016) treated them as separate genera. Ferreira (1960, 1961b, 1972) accepted *Paracopris* and *Litocopris* (four Afrotropical species) as subgenera of *Copris*, but elevated *Microcopris* to genus (1961b: 91) and assigned (1960: 4) *Copris lunaticeps* Gillet to a new genus, *Pseudocopris*. Cambefort and Nguyen-Phung (1996) and Davis et al. (2008) treated *Litocopris* as a genus, and Löbl et al. (2006) and Král and Bezděk (2016) synonymized it with *Copris*. As far as I am aware, *Coptodactyla* Burmeister (17 Australian species), *Pseudopedaria* Ferreira (four Afrotropical species) and *Thyregis* Blackburn (four Australian species) have always been treated as genera. In absence of a consensus, all of these taxa, as well as *Sinocopris* Ochi, Kon and Bai (19 species in India, China, Japan, Korean peninsula, e. Siberia and southeastern Asia), are here regarded as genera.

The name *Copris* was long attributed to O. F. Müller (1764), but in 1994 the International Commission on Zoological Nomenclature ruled *Copris* and some other genera of Geoffroy (1762) conserved, and the name thus became available from the latter work (ICZN 1994; Branco 2007: 10). Of the nine genera included in this catalogue it is by far the largest (over 200 species) and most widely distributed, with roughly equal numbers of species inhabiting the Afrotropical (109) and Holarctic–Oriental (99) regions, 32 of them in the Nearctic subregion and Neotropical region. Only one Afrotropical species (*C. diversus* Waterhouse) extends to Madagascar and one Palearctic species (*C. pueli* Mollandin de Boissy) is confined to northern Africa. One Nearctic–Neotropical species (*C. incertus* Say) has been introduced into Hawaii, New Zealand and Vanuatu (Thomas 1961, Gutierrez et al. 1988), one Oriental species (*C. fricator* (Fabricius)) has been introduced into North America (Matthews 1961), and two Palearctic (*C. hispanus* (Linnaeus), *C. lunaris* (Linnaeus)) and three Afrotropical species (*C. diversus* Waterhouse, *C. elphenor* Klug, *C. fallaciosus* Gillet) have been introduced into Australia (Doube et al. 1991, Cassis and Weir 1992).

Afrotropical members of *Copris* were revised by Ferreira (1961b, 1972), Nguyen-Phung (1987, 1988a–c, 1989), Nguyen-Phung and Cambefort (1986a, b, 1987), Cambefort (1992a, b) and Cambefort and Nguyen-Phung (1996). The latter two authors revised 33 species, described 24 new species, and

divided them and a majority of the remaining species into 48 groups. Relatively few Afrotropical species have not been treated or at least mentioned in their works; they are *C. ares* Zelenka, *C. basilewskyi* Ferreira, *C. brittoni* Ferreira, *C. freyi* Ferreira, *C. hartli* Frey, *C. hybridus* Gillet, *C. mourgliai* Zelenka, *C. perturbator* Péringuey and *C. scorpion* Zelenka.

Of the approximately 70 Palearctic and Oriental *Copris* species presumed valid in this catalogue most were re-described by Balthasar (1963), leaving only those described subsequently and two, *C. consobrinus* (Lansberge) and *C. marcus* (Gillet), that he regarded as synonyms of *C. doriae* (Harold) (*Microcopris*) and *C. nevinsoni* Waterhouse, respectively. Balthasar's work contains a key to both sexes and provides a good platform for further studies. Most recently Kabakov (2006) revised the six species inhabiting Russia and the neighboring countries (*C. armeniacus* Faldermann, *C. hispanus* (Linnaeus), *C. lunaris* (Linnaeus), *C. ochus* (Motschulsky) (*Sinocopris*), *C. pecuarius* (Lewis) (*Sinocopris*) and *C. tripartitus* (Waterhouse)), included three more species in his key (*C. acuticollis* (Motschulsky) = *C. acutidens* Motschulsky, *C. pueli* Mollandin de Boissy and *C. umbilicatus* (Abeille de Perrin)), and mentioned a fossil species, *Copris kartlinus* Kabakov, 1988 from the early Pliocene of Georgia [Gruzia] (not included in this catalogue). Finally Ochi and Kon (2004a, b, 2005, 2010, 2014), Ochi, Kon and Bai (2007, 2009), Ochi, Kon and Kawahara (2005, 2008, 2019), Ochi, Kon and Pham (2019) and Ochi, Kusui and Pham (2019) described nearly 30 species, most of them *Paracopris* and *Microcopris*, from Nepal, China (Guanxi, Guizhou, Quinhai, Shanxi, Sichuan, Yunnan, Xizang) and southeastern Asia (Cambodia, Laos, Malay peninsula, Malaysia-Sabah, Myanmar, Vietnam).

All western hemisphere species belong to *Copris* s. str., which was revised by Matthews (1961) who treated 22 previously known species and described one species (*C. lecontei*) and one subspecies (*C. fricator cartwrighti* Robinson) as new. Nine New World species have been described since 1961, bringing the number up to 32. Mexico has the most species (22), followed by Central America (13), followed by the USA (10). Only two species (*C. incertus* Say and *C. laeviceps* Harold) extend from Mexico into western South America. Eight species extend from Mexico into Central America and four others extend from Mexico into the USA, but no species occurs in all three regions. Woodruff (1973) presented accounts of the species occurring in Florida (*C. gopheri* Hubbard, *C. howdeni* Matthews and Halffter, *C. inemarginatus* Blatchley and *C. minutus* (Drury)), and Kohlmann (2003) reviewed the Mexican species except *C. warneri*, which was described subsequently (McCleve and Kohlmann 2005).

The following catalogue is a compilation intended to serve for orientation in the vast number of species names, their original generic / subgeneric assignments and pertinent references. A word of caution is in order concerning the dates of Ferreira's papers in the Instituto de Investigação Científica de Moçambique periodicals, especially the Revista de Entomologia de Moçambique, which were often released a year or more after the date indicated on the title page and at the bottom of each following page of the monograph. This is also evidenced by the authoress referring to species described by her as new in another Revista paper released only a year later. Unfortunately, the real date of publication is apparent only from a hardly noticeable small-print statement in the center of otherwise empty outside back cover, which is not included in pdf versions of papers available in on-line bibliographies, and I have not been able to find these discrepancies corrected anywhere in on-line library records.

The genera and species are listed alphabetically and, for convenience, names of species belonging to all other included genera are left in the first and longest *Copris* list, where they are annotated by the generic name in boldface (e.g. "see ***Litocopris***"). As in any work of this nature, omissions can be expected and reporting them would be appreciated. The cut-off date of the literature search is December 2019.

Catalogue

Synonyms and homonyms are preceded by en dashes (–), subspecies are preceded by asterisks (*). Countries / states with longer names are abbreviated: DRC = Democratic Republic of the Congo, PNG = Papua New Guinea, PRC = Peoples' Republic of the Congo, RSA = Republic of South Africa, USA = United States of America; NSW = New South Wales (Australia), NT = Northern Territory (Australia), WA = Western Australia, WNG = Western New Guinea (Indonesia).

Copris Geoffroy

Geoffroy 1762: 87; type sp. *Scarabaeus lunaris* Linnaeus, 1758.

–*Insulicopris* Tsukamoto 1974: 1; type sp. *Copris brachypterus* Nomura, 1964.

–*Pilularius* Schrank 1798: 394; type sp. *Pilularius lunus* Schrank, 1798 (= *Scarabaeus lunaris* Linnaeus, 1758).

–*Palaeocopris* Pierce 1946: 130; type sp. *Palaeocopris labreae* Pierce, 1946 = *Phanaeus labreae* (Pierce) [late Pleistocene of California, see Miller et al. 1981: 627, Edmonds 1994: 91].

Species-group taxa

–*achates* Péringuey 1901: 346, 365; = *cornifrons*

–*acuticeps* Felsche; see **Coptodactyla**

–*acuticollis* (Motsch.) of Kabakov 2006: 87 [key]; = *acutidens*
acutidens Motschulsky 1860: 13; China (Fujian, Hubei, Sichuan), Japan.

afgoi Cambefort 1992b: 181; Somalia.

agnus Sharp 1875: 47; Borneo, Java, Malaysia, Singapore.

algol Nguyen-Phung 1989: 202; Kenya, Tanzania.

–*amabile* Ferreira 1958a: 3; = *amabilis* Kolbe

amabilis Kolbe 1914: 311; DRC, Uganda.

–*ammon* (Fabricius 1781: 24), as *Scarabaeus*; = *minutus*

amyntor Klug 1855: 655; Kenya, Mozambique, RSA, Zimbabwe.

–*amyntor* Harold 1869a: 61; = *harrisi*

–*anaglypticus* Say 1823: 204; = *fricator fricator*
anceus (Olivier 1789: 116), as *Scarabaeus*; RSA (Cape).

andrewesi (Waterhouse); see **Paracopris**

**angolensis* Ferreira 1962b: 144; ssp. of *cassius*

angusticornis Arrow 1933: 427; China (Fujian, Hubei, Sichuan, Yunnan), Thailand, Vietnam.

**angusticornis* Nguyen-Phung and Cambefort; ssp. of *laius*

angustus Nguyen-phung and Cambefort 1986: 407; Benin, Ivory Coast, Mali, Senegal.

anomiopseoides (Boucomont); see **Paracopris**

antares Ferreira 1958a: 5; RSA (Free State).

apicepunctatus Balthasar; see **Microcopris**

arcturus Gillet 1907: 179; DRC, Gabon.

ares Zelenka 1993: 242; RSA.

arimotoi Ochi and Araya 1992: 83; Indonesia (Sumatra).

arizonensis Schaeffer 1906: 254, 256; Mexico (Chihuahua), USA (Arizona, New Mexico, Texas).

armatus Harold 1869c: 498; Mexico (DF, Guerrero, Hidalgo, Jalisco, México, Michoacán).

armeniacus Faldermann 1835: 238; Armenia, Azerbaijan, Georgia, Iran, Turkey. [sp. inquirenda in Ziani 2017]

armiger Gillet 1910: 1; Burundi, DRC, Kenya, Mozambique, RSA (Transvaal), Tanzania, Zambia, Zimbabwe.

arrowi Felsche 1910: 350; “South China”, Thailand.

aspericollis Gillet 1910: 3; Costa Rica, El Salvador, Guatemala, Mexico (Chiapas).

atropolitus Gillet 1910: 7; DRC, Kenya, Tanzania.

–*baileyi* Blackburn; see **Coptodactyla**

barclayi Ochi, Kon and Bai; see **Sinocopris**

bartolozzii (Ochi, Kon and Pham); see **Paracopris**

basilewskyi Ferreira 1962a: 101; DRC.

basipunctatus (Balthasar); see **Sinocopris**

–*belisama* (Schrank 1798: 394), as *Pilularius*; = *lunaris*

bellator Chevrolat in Guérin-Méneville 1844: 81; Indonesia (Java), Malaysia.

bengalensis Gillet 1911a: 289; China (Guizhou, Xizang, Yunnan), Myanmar, Thailand.

bidens Kolbe 1893: 200; Cameroon.

–*bifidus* (Poda von Neuhaus 1761: 18), as *Scarabaeus*; = *lunaris*

- bihamatus* Balthasar 1965: 20, as *Paracopris*; = *fidius*
bootes Klug 1855: 655; Botswana, Kenya, Mozambique, RSA (Transvaal), Tanzania.
- **borneensis* Ochi and Kon; ssp. of *gibbulus*
- bornemisszai* Ferreira 1972: 167, 783; = *bootes*
boucardi Harold 1869c: 497; El Salvador, Guatemala, Mexico (Guerrero, Oaxaca).
bovinus Gillet 1908a: 68; Angola, DRC.
brachypterus brachypterus Nomura 1964: 50; Japan (Okinawa: Amami-Ōshima).
brachypterus toguchii Ochi and Kawahara 2012: i; Japan (Tokunoshima).
brittoni Ferreira 1962a: 103; DRC, Tanzania.
brooksi Matthews; see ***Coptodactyla***
caelatus Fabricius 1794: 435; Lesotho, Mozambique, RSA.
- **caffer* Gillet; ssp. of *orion*
caliginosus Kohlmann, Cano and Delgado 2003: 2; Guatemala.
- calvus* Sharp 1875: 46; = *saundersi*
cambeforti Nguyen-Phung 1988c: 12; RSA (Transvaal).
cambodiensis Ochi, Kon and Kawahara 2008: 243; Cambodia.
camerunus Felsche 1904: 402; Cameroon.
capensis Waterhouse 1891a: 513; Lesotho, RSA (Cape).
cariniceps (Felsche); see ***Paracopris***
carinicus Gillet 1910: 8; China (Yunnan), India (Assam), Laos, Myanmar, Thailand.
carmelita Fabricius 1801: 39; Benin, Burkina Faso, DRC, Gambia, Guinea, Sierra Leone, Senegal, Uganda.
- **cartwrighti* Robinson 1941: 131; = ssp. of *fricator*
cassius Péringuey 1901: 344, 351; Angola, Botswana, Mozambique, RSA (Cape), Zimbabwe.
- castaneus* Mulsant 1842: 73, as var. of *C. lunaris*; = *lunaris*
- **cavolini* (Petagna); ssp. of *hispanus* [Prevailing usage of the subsequent spelling *cavolinii* has not been officially demonstrated; S. Ziani and T. Branco, pers. comm.]
celebensis Lansberge 1886: 9; Indonesia (Sulawesi).
- **centralis* Gillet; ssp. of *orion*
cheni (Ochi, Kon and Bai); see ***Sinocopris***
chinmontanus (Ochi, Kon and Kawahara); see ***Paracopris***
- **chuduraziensis* Ochi, Kon and Kawahara; ssp. of *pseudochus*; see ***Sinocopris***
- cipriani* Balthasar 1939a: 3, as *Paracopris*; = *coriarius*
–*claudius* (Harold 1877a: 48), as *Catharsius*; = *repertus*
–*clavicornis* Matthews and Halffter 1959: 191; = *moechus*
colmanti Gillet 1908b: 56; Cameroon, DRC, Gabon.
complexus Nguyen-Phung 1989: 206; Burundi, Cameroon, DRC, Kenya, Malawi, Rwanda, Tanzania, Uganda.
compressipennis (Gillet); see ***Paracopris***
confucius Harold 1877a: 48; Cambodia, China (Fujian, Guangdong, Guizhou, Hongkong, Sichuan, Yunnan), Laos, Malaysia, Myanmar, Taiwan, Thailand, Vietnam.
- confusus* Boheman 1857: 240; = *amyntor*
- consobrinus* (Lansberge); see ***Microcopris***
- **continentalis* Ochi and Kon; ssp. of *pecuarius*; see ***Sinocopris***
- contractus* Boheman 1857: 236; = *caelatus*
–*contractus* Péringuey 1901: 344, 352; = *obesus*
convexiusculus Shipp 1897: 450; Somaliland.
coriarius Gillet 1907: 178; DRC, Eritrea, Ethiopia, Guinea, Ivory Coast, Malawi, Nigeria, RSA, Tanzania, Uganda, Zimbabwe [var. of *mesacanthus* in Ferreira 1961: 156].
- corniculatus* Mulsant 1842: 73, as ab. of *lunaris*; = *lunaris*
cornifrons Boheman 1860: 110; Botswana, Mozambique, RSA (Cape).
corniger Sahlberg 1823: 6; Ethiopia, Kenya, Lesotho, RSA.
–*corniger* Harold 1869c: 1014; = *bellator*

- coronatus* (Harold 1877b: 98), as *Catharsius*; = *signatus*
corpulentus Gillet 1910: 13; China (Fujian, Sichuan, Yunnan), India (Arunachal Pradesh), Laos, Myanmar, Thailand, Vietnam.
costaricensis costaricensis Gahan 1894: 116; Costa Rica, Mexico (Chiapas), Panama.
costaricensis dolichocerus Matthews 1961: 97; Guatemala, Mexico (Chiapas).
cribratus (Gillet); see ***Paracopris***
cribricollis Gillet 1910: 6; Tanzania.
- curvicornis* Boheman 1860: 110; = *cornifrons* ♀
- davidis* (Deyrolle 1878: 95), as *Catharsius*; = *Catharsius molossus* (syn. Cheung et al. 2018)
davisi Nguyen-Phung and Cambefort 1986b: 104; Angola.
davisoni (Waterhouse); see ***Paracopris***
decellei Cambefort 1992a: 29; DRC, Guinea, Rwanda, Uganda.
- deletus* Mulsant 1842: 73, as var. of *lunaris*; = *lunaris*
delicatus Arrow 1931: 117; China (Yunnan), India (Arunachal Pradesh, Assam, Sikkim).
denticulatus Nguyen-Phung 1988b: 216; Mozambique, RSA, Zimbabwe.
depressa Paulian; see ***Coptodactyla***
- **dicyrtus* Matthews and Halffter; ssp. of *remotus*
diversus Waterhouse 1891a: 518; Kenya, Somalia, Sudan, Tanzania, Madagascar; introduced into Australia (Queensland, NT, WA).
- **dolichocerus* Matthews; ssp. of *costaricensis*
doriae (Harold); see ***Microcopris***
draco Arrow 1906: 127; Angola.
dracuncululus Ferreira 1959: 13; DRC.
ducalis Blackburn; see ***Coptodactyla***
dudleyi Cambefort 1992a: 30; Malawi.
eburneus Cambefort 1992a: 28; Ivory Coast.
elpheneroides Felsche 1910: 345; Tanzania.
elphenor Klug 1855: 655; Angola, Burkina Faso, Botswana, Cameroon, DRC, Ethiopia, Kenya, Mozambique, Namibia, RSA, Tanzania, Zimbabwe; introduced into Australia (Queensland).
- emarginatus* (Olivier 1789: 115), as *Scarabaeus*; = *lunaris*
erratus erratus Lansberge 1886: 13; Sulawesi.
erratus masayukii Ochi and Kon 2004a: 28; Indonesia (Sulawesi: Peleng I).
evanidus Klug 1855: 655; Botswana, Ethiopia, Kenya, Mozambique, RSA, Tanzania, Uganda, Zimbabwe.
- excavatus* Klug 1855: 655; = *bootes*
excisus (Waterhouse); see ***Paracopris***
fallaciosus Gillet 1907: 180; Botswana, Ethiopia, Kenya, Mozambique, Namibia, RSA, Somalia, Uganda, Zimbabwe; introduced into Australia (Queensland).
fallax Felsche 1910: 349; Namibia.
felschei Reitter 1892: 216 [= 1893: 95]; Armenia, Azerbaijan, Georgia, Iran, e. Turkey.
- ferreirae* Frey 1974: 273; = *megaceratoides*
fidius (Olivier 1789: 184), as *Scarabaeus*; DRC, Mozambique, Namibia, RSA.
- **formosanus* Gillet; ssp. of *punctatus*
- frankenbergeri* Balthasar 1934: 149; = *acutidens*
frankenbergerianus Balthasar 1958: 477; China (Sichuan).
freyi Ferreira 1961a: 138; Gabon.
fricator fricator (Fabricius 1787: 15), as *Scarabaeus*; India, Sri Lanka; introduced into much of e.+c. USA and se. Canada (Ontario).
fricator cartwrighti Robinson 1941: 131, as sp.; USA (South Carolina).
- fricator* Harold 1877a: 46; = *erratus*
fujiokai fujiokai Ochi and Kon; see ***Microcopris***
fujiokai poringensis Ochi and Kon; see ***Microcopris***
fukiensis Balthasar 1953: 225; China (Fujian, Zhejiang), Taiwan.
furciceps (Felsche); see ***Paracopris***

- furcillatus* Felsche 1910: 345; = *costaricensis*
- **gabonicus* Cambefort; ssp. of *phungae*
- garambae* Cambefort 1992a: 27; DRC
- gazellarum* Gillet 1918: 148; Burkina Faso, DRC, Sudan, Uganda.
- **genopunctatus* Nguyen-Phung; ssp. of *vankhaii*
- gibbulus gibbulus* Lansberge 1886: 17; Malaysia, Borneo, Java, Sumatra.
- gibbulus borneensis* Ochi and Kon 2005: 71; Malaysia (Sabah).
- gilleti* Kolbe 1907: 25; Tanzania.
- gistelianus* Gistel 1857: 587; = *lunaris*
- glabriceps* Felsche 1910: 346; = *acutidens*
- glabricollis* (Hope); see ***Coptodactyla***
- gladiator* Arrow 1933: 425; Myanmar.
- globulipennis* Waterhouse 1891a: 512; = *sexdentatus* Thunberg
- gopheri* Hubbard 1894: 310; USA (Florida).
- gracilis* Waterhouse 1891a: 518; Namibia.
- **grandis* Nguyen-Phung and Cambefort; ssp. of *inhalatus*
- graueri* Kolbe 1914: 312; Tanzania.
- grossa* (Thomson); see ***Pseudopedaria***
- halffteri* Matthews 1959: 133; Mexico (Guerrero, Morelos, Puebla, San Luis Potosí).
- haroldi* Lansberge 1886: 15; = *spinator*
- harrisi* Waterhouse 1891a: 515; Benin, CAR, DRC, Eritrea, Ethiopia, Kenya, Sierra Leone, Somalia, Sudan, Tanzania, Uganda, Zimbabwe.
- hartli* Frey 1975: 294; Tanzania.
- hatayamai* Ochi and Araya 1992: 79; Malaysia.
- hidakai* Ochi and Kon; see ***Microcopris***
- hintoni* Saylor 1933: 238; = *klugi*
- hispanicus* (Poiret 1789: 297), as *Scarabaeus*; = *hispanus hispanus*
- hispanus hispanus* (Linnaeus 1764: 12), as *Scarabaeus*; western ssp.: s. France incl. Corsica, Sardinia (Italy), Iberian peninsula, Morocco, Tunisia; introduced into Australia (WA).
- hispanus cavolini* (Petagna 1792: 140), as sp. of *Scarabaeus*; eastern ssp.: continental Italy + Sicily, Balkans, Turkey, Israel, n. Iran, c. Asia. [For *C. hispanus* and *C. cavolini* as separate species see Falahee and Angus 2010.]
- hispanus persianus* Mikšić 1958: 1; = *hispanus cavolini*
- hosakai* Ochi and Kon; see ***Microcopris***
- howdeni* Matthews and Halffter 1959: 200; USA (Florida, Georgia?, South Carolina).
- humilis* Gillet 1908a: 71; Tanzania.
- hybridus* Gillet 1910: 11; Tanzania.
- igualensis* Warner 1990: 236; Mexico (Guerrero).
- illotus* Balthasar 1942b: 189; China (Fujian).
- imitans* (Felsche); see ***Paracopris***
- imitatrix* Balthasar; see ***Coptodactyla***
- inaequabilis* Zhang 1997: 758; China (Hubei).
- incertus* Say 1835: 175; Colombia, Ecuador, Mexico (Hidalgo, Puebla, San Luis Potosí, Tamaulipas, Yucatán), Panama; introduced into Hawaii, New Zealand, Vanuatu.
- indicus* Gillet 1910: 5; = *fricator fricator*
- inemarginatus* Blatchley 1918: 54; USA (Florida).
- inhalatus inhalatus* Quedenfeldt 1884: 272; Angola, DRC, Mozambique, Namibia, RSA (Cape), Zimbabwe.
- inhalatus grandis* Nguyen-Phung and Cambefort 1986b: 102; Zimbabwe.
- inhalatus perturbator* Péringuey 1901: 352, as sp.; Botswana, Namibia, RSA, Zimbabwe.
- inhalatus sanctaeluciae* Nguyen-Phung and Cambefort 1986b: 102; RSA (Natal).
- insidiosus* Péringuey 1901: 346, 366; Burundi, DRC, Rwanda, Tanzania, Uganda, Zimbabwe.
- integer* Reiche 1850: 312; Burkina Faso, Burundi, DRC, Ethiopia, Kenya, Rwanda, Tanzania, Zimbabwe.

- integer* Harold 1869a: 61; = *fallaciosus*
interioris Kolbe 1897: 143; Burundi, Cameroon, DRC, Gambia, Guinea, Nigeria, Senegal, Uganda, Tanzania.
iris Sharp 1875: 45; Laos, Malaysia, Myanmar, Thailand, Vietnam.
 **isthmiensis* Matthews; ssp. of *lecontei*
jacchoides Nguyen-Phung and Cambefort 1987: 70; Lesotho, RSA.
jacchus (Fabricius 1775: 20), as *Scarabaeus*; Lesotho, Namibia, RSA, Zimbabwe.
jahi Nguyen-Phung and Cambefort 1986a: 413; Cameroon.
javanensis (Bui, Ziegler and Bonkowski); see **Paracopris**
 –*jenisonianus* Gistel 1857: 586; = *lunaris*
jucundus Gillet 1933: 326; Cameroon, Guinea.
kachinensis Ochi, Kon and Kawahara 2008: 245; Myanmar.
kasagii (Ochi and Kon); see **Paracopris**
katangae Cambefort and Nguyen-Phung 1996: 286; DRC.
keralensis Gill 1986: 632; India (Kerala).
kershawi Blackburn; see **Thyregis**
kiuchii (Masumoto); see **Sinocopris**
klapperichi Balthasar 1942a: 116; China (Fujian).
klugi klugi Harold 1869c: 498; Mexico (most states), Central America.
klugi sierrensis Matthews 1961: 72; Mexico.
kusakabei (Ochi, Kon and Kawahara); see **Sinocopris**
laeviceps Harold 1869c: 498; Belize, Colombia, Costa Rica, Guatemala, Honduras, Mexico (Chiapas, DF, Oaxaca, Veracruz).
 –*laevicollis* Mulsant 1842: 69, as var. of *hispanus*; = *hispanus hispanus*
laevigatus (Gillet); see **Sinocopris**
laiiformis Nguyen-Phung and Cambefort 1987: 72; Zimbabwe.
laioides Boucomont 1932: 46; DRC, Namibia, Zambia, Zimbabwe.
laius laius Harold 1868a: 81; Burkina Faso, DRC, Gambia, Guinea Bissau, Senegal, Sudan.
laius angusticornis Nguyen-phung and Cambefort 1987: 73; Cameroon, Chad, Sudan, Uganda.
lannathai Hanboonsong, Masumoto and Ochi 2003: 108; Thailand.
 –*lar* (Fabricius 1787: 13), as *Scarabaeus*; = *minutus*
 –*laticornis* Boheman 1857: 226; = *elphenor*
 –*laticornis* Wallengren 1881: 20; = *jacchus*
 –*laticornis* Péringuey 1901: 343, 347; = *corniger*, *fallaciosus*
lecontei lecontei Matthews 1961: 98; USA (Arizona, New Mexico), Mexico (Chihuahua, Colima, Guerrero, Jalisco, Nayarit, Oaxaca, Sinaloa, Sonora).
lecontei isthmiensis Matthews 1961: 102; Mexico.
lesnei Paulian; see **Coptodactyla**
 –*lineatus* Wiedemann 1823: 9; = *sexdentatus*
lugubris Boheman 1858: 42; Belize, Costa Rica, El Salvador, Guatemala, Honduras, Mexico (most states), Nicaragua, Panama.
 –*lunarioides* Waterhouse 1891a: 513; = *corniger*
lunaris (Linnaeus 1758: 346), as *Scarabaeus*; UK, s. Sweden, c.+s.+e. Europe, w. China, w. Siberia, Turkey, Syria, Iran, c. Asia, Kazakhstan; introduced to Australia.
lunaticeps (Gillet); see **Pseudocopris**
 –*lunus* (Schrank 1798: 393), as *Pilularius*; = *lunaris*
macacus Lansberge 1886: 14; Indonesia (Sulawesi).
macclevei Warner 1990: 232; Mexico (Sonora), USA (Arizona).
macer Péringuey 1901: 343, 346; Angola, Mozambique, Namibia, RSA (Transvaal), Swaziland, Tanzania, Zimbabwe.
maesi Ratcliffe 1998: 93; Nicaragua.
magicus Harold 1881: 88; China (Guizhou, Hubei, Hunan, Sichuan, Xinjiang, Yunnan), India (Sikkim), Laos, Myanmar, Thailand, Vietnam.

- manni* (Ochi, Kon and Bai); see ***Sinocopris***
- marcoberrai* Ochi, Kon and Pham 2019: 435; c. Vietnam (Quang Nam).
- marcus* (Gillet); see ***Microcopris***
- marianus* (Petiver 1764: 27), as *Scarabaeus*; = *hispanus hispanus*
- martinae* Nguyen-Phung 1988a: 257; Tanzania.
- martinezi* Matthews and Halffter 1968: 154; Mexico (Durango).
- **masayukii* Ochi and Kon; ssp. of *erratus*
- matthewsi* Reid; see ***Coptodactyla***
- matthewsi matthewsi* Delgado and Kohlmann 2001: 344; Guatemala, Mexico (Chiapas).
- matthewsi pacificus* Delgado and Kohlmann 2001: 348; El Salvador, Guatemala, Mexico.
- medogensis* Zhang 1988: 228; China (Xizang).
- megaceratoides* Waterhouse 1891a: 511; DRC, Gambia, Guinea, Nigeria, Senegal.
- megasoma* Matthews and Halffter 1959: 194; Mexico (Durango, Michoacán).
- merdeka* Reid; see ***Coptodactyla***
- meridionalis* Matthews; see ***Coptodactyla***
- mesacanthus mesacanthus* Harold 1878: 45; Angola, DRC, Malawi, Mozambique, Namibia, RSA, Zambia, Zimbabwe.
- mesacanthus transvaalensis* Nguyen-Phung 1988c: 10; RSA.
- mexicanus* Matthews and Halffter 1959: 194; Mexico (Michoacán).
- minator* Harold 1880: 152; = *anceus* [valid in Gillet 1910]
- mindorensis* (Ochi); see ***Microcopris***
- minutissimus* (Kryzhanovskii and Medvedev); see ***Microcopris***
- minutus* (Drury 1770: 78), as *Scarabaeus*; e.+c. USA.
- misellus* Péringuey 1901: 344, 349; Botswana, DRC, Mozambique, Namibia, RSA, Zambia, Zimbabwe.
- modestus* Boheman 1857: 242; = *evanidus*
- moechus* LeConte 1854: 222; Mexico (Chihuahua, Durango), USA (Texas).
- moffartsi* Gillet 1907: 177; Burundi, Cameroon, DRC, Kenya, Rwanda, Uganda.
- mongkhoni* Hanboonsong, Masumoto and Ochi 2003: 114; Thailand.
- monstrosa* Felsche; see ***Coptodactyla***
- monteithi* Matthews; see ***Thyregis***
- **montivagus* Gillet 1908a: 80, as var. of *harrisi* [valid sp. in Gillet 1910, var. of *harrisi* in Ferreira 1961: 209].
- montreuili* (Ochi, Kon and Pham); see ***Paracopris***
- morgani* Waterhouse 1891a: 514; = *carmelita*
- morphaeus* Gillet 1932: 325; Kenya.
- mourgliai* Zelenka 1993: 239; Somalia.
- muelleri* Balthasar 1939b: 42; = *acutidens*
- muticus* (Boheman); see ***Litocopris***
- muticus* (Péringuey); see ***Litocopris***
- neglectus* Moxey 1963: 25; India (Tamil Nadu).
- nepos* Gillet 1908a: 76; Burundi, DRC, Kenya, Rwanda, Tanzania, Uganda, Zimbabwe.
- nepticulus* Kolbe 1897: 144; = *diversus*
- neptis* Reiche 1850: 314; = *orphanus* Guérin-Ménéville
- nevinsoni* Waterhouse 1891a: 519; Cambodia, Laos, Malaysia, Thailand, Vietnam.
- nitida* Paulian; see ***Coptodactyla***
- novaki* Zelenka 1992: 167; Malaysia.
- nubilosus* Kohlmann, Cano and Delgado 2003: 4; Guatemala, Honduras.
- numa* Lansberge 1886: 19; India (Assam), Indonesia (Borneo, Sumatra), Malaysia, Myanmar.
- obenbergeri* (Balthasar); see ***Sinocopris***
- obesus* Boheman 1857: 237; Lesotho, Mozambique, RSA, Tanzania, Zimbabwe.
- obliteratus* Mulsant 1842: 73, as var. of *lunaris*; = *lunaris*
- ochus* (Motschulsky); see ***Sinocopris***
- oedipus* (Fabricius 1775: 20), as *Scarabaeus*; = *jacchus*

- olivieri* (Ochi, Kon and Kawahara); see ***Paracopris***
onitoides Gillet; see ***Coptodactyla***
 –*orientalis* Fabricius 1792: 52; = *repertus*
orion orion Klug 1835: 34; Angola, Burkina Faso, Burundi, Cameroon, DRC, Gambia, Kenya, Mozambique, Namibia, RSA, Rwanda, Senegal, Tanzania.
orion caffer Gillet 1908a: 70, as var.; RSA.
orion centralis Gillet 1908a: 70, as var.; DRC.
orion overlaeti (Balthasar 1961: 98), as sp.; DRC, Gabon, Rwanda(?).
orphanus Guérin-Méneville 1847: 308; Angola, Burundi, DRC, Ethiopia, Guinea, Kenya, Rwanda, Tanzania, Uganda.
 –*orphanus* Péringuey 1901: 344, 350; = *evanidus*
 –*orphanus* Ferreira 1958b: 501; = *gracilis*
 –*oryctes* (Herbst); see ***Microcopris***
 **overlaeti* (Balthasar); ssp. of *orion*
 **pacificus* Delgado and Kohlmann; ssp. of *matthewsi*
 –*paniscus* (Fabricius 1775: 123), as *Scarabaeus*; = *hispanus hispanus papua* Lansberge; see ***Coptodactyla***
parapecuarius (Ochi, Kon and Kawahara); see ***Sinocopris***
parasonensis Ochi, Kon and Pham 2019: 437; Laos (Hua Phan).
pauliani Nguyen-Phung and Cambefort 1986a: 413; Cameroon.
 –*pauliani* (Frey); see ***Thyregis***
pecuarius pecuarius (Lewis); see ***Sinocopris***
pecuarius continentalis Ochi and Kon; see ***Sinocopris***
pedarioides (Lansberge); see ***Paracopris***
 –*persianus* Mikšić 1958:1; = *hispanus cavolini*
 –*persimilis* Felsche 1908: 273; = *fallaciosus*
 **perturbator* Péringuey; ssp. of *inhalatus*
phungae phungae Cambefort 1992b: 181; Gabon, Ivory Coast.
phungae gabonicus Cambefort 1992b: 182; Gabon.
phylax Gillet 1908b: 59; Cameroon, DRC, Ivory Coast.
 –*pluridens* Gillet 1908a: 70; = *interioris*
 –*plutus* (Fabricius 1794: 436), as *Scarabaeus*; = *fidius*
poggii Ochi and Kon 2005: 69; Malaysia (Sabah).
 –*pompilius* Waterhouse 1875: 75; = *sarpedon*
popaensis (Ochi, Kon and Kawahara); see ***Paracopris***
 poringensis* Ochi and Kon; ssp. of *fujiokai*; see *Microcopris***
potanini Semenov 1891: 310; China (Gansu).
 –*procidius* Say 1835: 176; = *incertus* [var. of *incertus* in Gillet 1910]
 –*pronus* Gerstaecker 1884: 50; = *integer*
propinquus (Felsche); see ***Microcopris***
 –*pseudobootes* Ferreira 1962a: 104; = *typhoeus*
pseudochus pseudochus (Ochi and Kon); see ***Sinocopris***
pseudochus chuduraziensis Ochi, Kon and Kawahara; see ***Sinocopris***
 –*pseudolunaris* Ferreira 1969: 3; = *hispanus hispanus*
pseudosinicus Balthasar 1958: 475; “China”.
pueli Mollandin de Boissy 1905: 110; Algeria, Tunisia, Armenia?, Iran?, Turkey?
pumiliaris Wallengren 1881: 20; RSA (Transvaal).
punctatus punctatus Gillet 1910: 4; China (Fujian, Sichuan), Myanmar, Thailand.
punctatus formosanus Gillet 1921: 126; Taiwan.
puncticollis Boheman 1857: 243; Mozambique, Zimbabwe.
punctipennis Boucomont 1914: 333, 335; Indonesia (Sumatra).
punctiventris Waterhouse; see ***Litocopris***
punctulatus punctulatus (Wiedemann); see ***Paracopris***

- punctulatus septentrionalis* (Ochi, Kon and Pham); see ***Paracopris***
- punjabensis* (Gillet); see ***Paracopris***
- quadridentatus* (DeGeer 1778: 638), as *Scarabaeus*; = *lunaris*
- quasilaevigatus* (Ochi, Kon and Bai); see ***Sinocopris***
- ramosiceps* (Gillet); see ***Paracopris***
- rebouchei* Harold 1869c: 497; Mexico (Guerrero, Jalisco, México, Michoacán, Morelos, Nuevo León, Puebla, Veracruz).
- reflexus* (Fabricius); see ***Microcopris***
- reflexus* (Panzer 1794: 7), as *Scarabaeus*; = *minutus*
- relictus* Matthews; see ***Thyregis***
- remotus remotus* LeConte 1866: 381; Mexico (Coahuila, Nuevo León, Tamaulipas), USA (Oklahoma, Texas).
- remotus dicyrthus* Matthews and Halffter 1959: 198; Mexico.
- renwarti* Nguyen-Phung and Cambefort 1986a: 407; Ivory Coast.
- reperthus* Walker 1858: 208; China (Xizang, Yunnan), India (Himachal Pradesh, Sikkim, Uttar Pradesh), Nepal, Sri Lanka, Thailand.
- retusus* Mulsant 1842: 68, as var. of *C. paniscus*; = *hispanus hispanus*
- ribbei* Lansberge 1886a: 12; Indonesia (Sulawesi).
- riekoa* Ochi and Kon 2003: 51; Laos.
- ritsemae* Harold 1875: 137; Lesotho, RSA.
- ruandanus* (Balthasar); see ***Litocopris***
- rugosus* Gillet 1908a: 77; Uganda.
- ruvicola* Balthasar 1933: 266; China (Sichuan).
- sabinus* (Gillet); see ***Sinocopris***
- sacontala* (Kollar and Redtenbacher) [in Redtenbacher]; see ***Sinocopris***
- sallei* Harold 1869c: 496; Mexico (Veracruz to Chiapas).
- **sanctaeluciae* Nguyen-Phung and Cambefort; ssp. of *inhalatus*
- sarpedon* Harold 1869b: 104 [replacement name for *sexdentatus* Kollar and Redtenbacher]; India (Himachal Pradesh, Uttar Pradesh), Nepal, Thailand, Vietnam–Laos (Annam).
- saundersi* Harold 1868b: 99; Sulawesi.
- schoolmeestersi* Ochi and Kon 2010: 127; Nepal.
- schoutedeni* Boucomont 1928: 419; = *wiesei*
- scorpio* Zelenka 1993: 241; Tanzania.
- senegalensis* Gillet 1910: 15; Senegal.
- **septentrionalis* (Ochi, Kon and Pham); ssp. of *punctulatus*; see ***Paracopris***
- serius* Nguyen-Phung 1987: 271; Tanzania.
- servius* Harold 1877a: 46; = *agnus*
- sexdentatus* Thunberg 1818: 404; RSA (Cape), Zimbabwe.
- sexdentatus* Kollar and Redtenbacher 1844: 520 [in Redtenbacher]; = *sarpedon*
- siamensis* Gillet 1910: 12; Thailand.
- siangensis* Biswas 1979: 339; India (Arunachal Pradesh).
- **sierrensis* Matthews; ssp. of *klugi*
- signatus* (Walker); see ***Paracopris***
- silenus* (Fabricius 1775: 21), as *Scarabaeus*; = *minutus*
- similis* Balthasar 1939a: 4, as *Paracopris*; = *mesacanthus*
- simillimus* Felsche 1910: 346 [erroneously as from “Sierra Leone”]; = *minutus*
- simonettai* Cambefort 1992b: 179; Somalia.
- simplex* (Harold); see ***Litocopris***
- simulator* Nguyen-Phung and Cambefort 1986a: 409; Chad.
- singularis* Nguyen-Phung and Cambefort 1986a: 406; Ethiopia.
- sinicus* Hope 1842a: 60; China (Fujian, Hubei, Jiangxi, Sichuan, Shanghai, Yunnan), Cambodia, Indonesia (Java), Malaysia, Thailand, Vietnam–Laos (Annam).
- sinon* (Olivier 1789: 123), as *Scarabaeus*; Gambia, Mauritania, Senegal.

- sinuatus* Mulsant 1842: 68, as var. of *C. paniscus*; = *hispanus cavolini*
sodalis Walker 1858: 208; Sri Lanka.
sorex Balthasar 1942a: 117; China (Fujian).
sphaeropterus Harold 1877b: 98; RSA (Cape), Zimbabwe.
spinator Harold 1881: 89; India (Nicobar Is.), Indonesia (Borneo, Sumatra), Malaysia.
stereocera Gillet; see ***Coptodactyla***
storeyi Reid; see ***Coptodactyla***
subaenea Harold; see ***Coptodactyla***
subdolosus Balthasar 1958: 476; China (Fujian).
subpunctatus Gillet 1910: 3; Costa Rica, Panama.
subsidents Péringuey 1901: 344, 355; Botswana, Namibia.
 –*sulcicollis* Lansberge 1886: 10; = *sinicus* [valid in Gillet 1910]
sumatrensis Gillet 1921: 123; Sumatra.
surdus (Arrow); see ***Paracopris***
szechouanicus Balthasar 1958: 479; China (Fujian, Guizhou, Hunan, Sichuan, Zhejiang).
 –*taprobanus* Gillet 1910: 9; = *sodalis*
tarsatus (Paulian); see ***Thyregis***
tetraodon Gillet 1910: 11; Philippines.
 –*tiberius* Schaufuss 1885: 188; = *saundersi*
 **toguchii* Ochi and Kawahara; ssp. of *brachypterus*
torresica Matthews; see ***Coptodactyla***
 **transvaalensis* Nguyen-Phung; ssp. of *mesacanthus*
tridens Felsche 1901: 150; Cameroon, DRC.
 –*tridens* Mulsant 1842: 68, as var. of *paniscus*; = *hispanus cavolini*
tridentatus Solís and Kohlmann 2003: 2; Costa Rica.
tripartitus Waterhouse 1875: 74; China (Fujian, Sichuan, Yunnan), Taiwan, Japan, Korean peninsula.
 –*trogodytarum* Roth 1851: 124; = *integer*
truncatus Felsche 1901: 150; Ivory Coast.
tsukamotoi (Ochi, Kon and Kawahara); see ***Sinocopris***
tuberculata Gillet; see ***Coptodactyla***
tubericollis (Felsche); see ***Pseudocopris***
 –*tullius* (Olivier 1789: 118), as *Scarabaeus*; = *fricator fricator*
 –*tullius* Harold 1877a: 45; = *spinator*
typhoeus Gerstaecker 1884: 50; Kenya.
uenoi (Hanboonsong, Masumoto and Ochi); see ***Sinocopris***
umbilicatus Abeille de Perrin 1901: 68; Albania, Bulgaria, Croatia, France (incl. Corsica), Greece, Hungary, Italy, Romania, Slovakia, Turkey.
urus Boheman 1857: 229; Mozambique, RSA, Swaziland.
usambaricus Gillet 1908a: 80; Kenya, Tanzania.
vankhahii vankhahii Nguyen-Phung 1988c: 12; Ethiopia, Somalia.
vankhahii genopunctatus Nguyen-Phung 1988c: 15; Kenya, Tanzania.
victorini Boheman 1857: 234; RSA (Cape, Natal).
 –*victorini* Péringuey 1901: 344, 354; = *ritsemae*
vietnamicus Kabakov 1994: 300; Vietnam.
vilhenai Ferreira 1962b: 154; Angola.
villiersi Walter; see ***Pseudopedaria***
vitalisi (Gillet); see ***Microcopris***
vrydaghi Ferreira 1962a: 105; DRC, RSA (Natal).
warneri McCleve and Kohlmann 2005: 18; Mexico (Chihuahua, Sonora).
wiesei Kolbe 1914: 310; Burundi, DRC, RSA (Cape), Rwanda, Tanzania, Uganda.
 –*yamamotoi* (Tesař); see ***Sinocopris***
yangi (Ochi, Kon and Bai); see ***Sinocopris***
yokoae Ochi, Kusui and Pham; see ***Microcopris***

youngai Balthasar 1967: 49, 50; PRC (Brazzaville).
zhangii (Ochi, Kon and Bai); see *Sinocopris*

***Coptodactyla* Burmeister**

Burmeister 1846: 90; type sp. *Copris glabricollis* Hope, 1842b.

–*Boucomontia* Paulian 1933: 67, as sg.; no type sp., invalid name (Matthews 1976: 28).

Species-group taxa

–*acuticeps* Felsche 1909: 754; = *ducalis*
 –*baileyi* Blackburn 1889: 1251; = *glabricollis*
brooksi Matthews 1976: 43; Australia (n. Queensland).
depressa Paulian 1933: 70; Australia (n. Queensland).
ducalis Blackburn 1903: 263; Australia (n. Queensland).
glabricollis (Hope 1842b: 424), as *Copris*; Australia (NT, n. Queensland).
 –*imitatrix* Balthasar 1965: 21; = *depressa*
lesnei Paulian 1933: 72; Australia (NT).
matthewsi Reid 2000: 236; Australia (n. Queensland).
merdeka Reid 2000: 240; WNG.
meridionalis Matthews 1976: 34; Australia (s. Queensland).
monstrosa Felsche 1909: 754; Australia (n. Queensland).
nitida Paulian 1933: 70; Australia (n. Queensland).
onitoides Gillet 1925: 6; Australia (c.+n. Queensland).
papua Lansberge 1885: 393; w. PNG.
stereocera Gillet 1911a: 288; Australia (NT).
storeyi Reid 2000: 244; Australia (n. Queensland).
subaenea Harold 1877a: 40; Australia (n. Queensland).
torresica Matthews 1976: 49; Australia (n. Queensland).
tuberculata Gillet 1925: 5; “Nouvelle-Guinée”.

***Litocopris* Waterhouse**

Waterhouse 1891b: 53; type sp. *Litocopris punctiventris* Waterhouse, 1891.

Species-group taxa

muticus (Boheman 1857: 238), as *Copris mutica*; Burundi, DRC, RSA (Cape), Rwanda, Uganda.
 –*muticus* (Péringuey 1901: 346, 367), as *Copris*; = *simplex*
punctiventris Waterhouse 1891b: 54; Burundi, DRC, Cameroon, Rwanda, Senegal, Tanzania, Togo, Uganda.
ruandanus (Balthasar 1961: 99), as sg. of *Copris*; Rwanda.
simplex (Harold 1868a: 81), as *Copris*; RSA (Cape).

***Microcopris* Balthasar**

Balthasar 1958: 474; type sp. *Scarabaeus reflexus* Fabricius, 1787.

Species-group taxa

apicepunctatus Balthasar 1942b: 190; China (Fujian).
 –*consobrinus* (Lansberge 1886: 22), as *Copris*; = *doriae* [valid in Gillet 1910]
doriae (Harold 1877a: 49), as *Copris*; Indonesia (Borneo, Sumatra), Malaysia (Malacca), Myanmar (Tenasserim).
fujiokai fujiokai Ochi and Kon 1996: 20; Borneo (w. Kalimantan).
fujiokai poringensis Ochi and Kon 2005: 73; Malaysia (Sabah).
hidakai Ochi and Kon 1996: 22; Malaysia (Sabah).

- hosakai* Ochi and Kon 2014: 86; Malay peninsula.
 –*marcus* (Gillet 1921: 123), as *Copris*; Cambodia, Malaysia. [syn. of *nevinsoni* (*Copris*) in Balthasar 1963: 345]
mindorensis (Ochi 1992: 13), as sg. of *Copris*; Philippines (Mindoro I.).
 –*minutissimus* (Kryzhanovskii and Medvedev 1966: 392), as *Copris*; = *propinquus*
 –*oryctes* (Herbst 1789: 215), as *Scarabaeus*; = *reflexus* Fabricius [valid in Gillet 1910]
 **poringensis* Ochi and Kon; ssp. of *fujiokai*
propinquus (Felsche 1910: 347), as *Copris*; China (Fujian, Sichuan, Yunnan), Taiwan, se. Asia.
reflexus (Fabricius 1787: 16), as *Scarabaeus*; China (Fujian, Hainan, Hubei, Sichuan, Yunnan).
vitalisi (Gillet 1921: 124), as *Copris*; Cambodia, China (Yunnan), India (Assam), Laos, Myanmar, Thailand, Vietnam.
yokoae Ochi, Kusui and Pham 2019: 44; Vietnam.

Paracopris Balthasar

Balthasar 1939a: 2; type sp. *Copris punctulatus* Wiedemann, 1823.

Species-group taxa

- andrewesi* (Waterhouse 1891a: 521), as *Copris*; India (Karnataka, Madhya Pradesh, Maharashtra, Orissa, Rajasthan, West Bengal), Nepal.
anomiopseoides (Boucomont 1924: 210), as *Copris*; Laos, Myanmar, Vietnam.
bartolozzii (Ochi, Kon and Pham 2019: 439); as sg. of *Copris*; Vietnam (Bac Kan).
cariniceps (Felsche 1910: 348), as *Copris*; China (Fujian, Hongkong, Jiangsu, Jiangxi, Nanjing, Shanghai, Yunnan, Zhejiang), Taiwan (Kaohsiung, Kenting, Lanyu I.), Vietnam.
chinmontanus (Ochi, Kon and Kawahara 2019: 476), as sg. of *Copris*; Myanmar (Chin).
compressipennis (Gillet 1910: 14), as *Copris*; India (Assam, Manipur, Sikkim, West Bengal).
cribratus (Gillet 1927: 253), as *Copris*; India (Arunachal Pradesh, Gujarat, Karnataka, Kerala, Meghalaya, Rajasthan, Tamil Nadu, Uttar Pradesh).
davisoni (Waterhouse 1891a: 520), as *Copris*; c.+s. India (Madhya Pradesh, Karnataka, Kerala, Tamil Nadu).
excisus (Waterhouse 1891a: 521), as *Copris*; India (Himachal Pradesh, Punjab, Uttarakhand), Pakistan (Azad Kashmir).
furciceps (Felsche 1910: 348), as *Copris*; India (Arunachal Pradesh, Gujarat, Meghalaya, Rajasthan, Sikkim, Uttar Pradesh, West Bengal), Laos, Myanmar, Thailand, China.
imitans (Felsche 1910: 347), as *Copris*; India (Chhattisgarh, Goa, Gujarat, Karnataka, Madhya Pradesh, Maharashtra, Rajasthan), Nepal.
javanensis (Bui, Ziegler and Bonkowski 2019: 53), as sg. of *Copris*; Indonesia (Java).
kasagii (Ochi and Kon 1996: 25), as sg. of *Copris*; Indonesia (Sumatra).
montreuili (Ochi, Kon and Pham 2019: 442), as sg. of *Copris*; Vietnam (Quang Nam).
olivieri (Ochi, Kon and Kawahara 2019: 470), as sg. of *Copris*; Myanmar (Kachin).
pedarioides (Lansberge 1886: 23), as *Copris*; India (Madhya Pradesh), Indonesia (Java), Malaysia.
popaensis (Ochi, Kon and Kawahara 2019: 474), as sg. of *Copris*; Myanmar (Mandalai region).
punctulatus punctulatus (Wiedemann 1823: 11), as *Copris*; Cambodia, China (Anhui, Yunnan), India (Arunachal Pradesh, Assam, Rajasthan), Indonesia (Java, Sulawesi), Laos, Malaysia, Myanmar, Thailand, Vietnam (Son La, Dien Bien, Quang Binh).
punctulatus septentrionalis (Ochi, Kon and Pham 2019: 444), as sg. of *Copris*; Vietnam (Phu Tho).
punjabensis (Gillet 1921: 126), as *Copris*; India (Haryana, Himachal Pradesh, Punjab, Uttarakhand), Nepal, Pakistan.
ramosiceps (Gillet 1921: 126), as *Copris*; Borneo, s. China, India, Malaysia, Myanmar.
 **septentrionalis* (Ochi, Kon and Pham); ssp. of *punctulatus*
signatus (Walker 1858: 208), as *Copris*; India (Himachal Pradesh, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Puducherry, Rajasthan, Tamil Nadu), Laos.
surdus (Arrow 1931: 132), as *Copris*; India (Madhya Pradesh, Rajasthan, Uttarakhand).

***Pseudocopris* Ferreira**

Ferreira 1960: 4; type sp. *Copris lunaticeps* Gillet, 1910.

Species-group taxa

lunaticeps (Gillet 1910: 16), as *Copris*; Angola (type loc. Zambeze), Zambia.
tubericollis (Felsche 1910: 349), as *Copris*; DRC, Kenya, Tanzania, Zambia.

***Pseudopedaria* Felsche**

Felsche 1904: 400; type sp. *Pedaria grossa* Thomson, 1858.

Species-group taxa

grossa (Thomson 1858: 49), as *Pedaria*; Cameroon, DRC.
villiersi Walter 1984: 90; Gabon.

***Sinocopris* Ochi, Kon and Bai**

Ochi, Kon and Bai 2009: 207; type sp. *Copris uenoi* Hanboonsong, Masumoto and Ochi, 2003.

Species-group taxa

- barclayi* Ochi, Kon and Bai 2009: 209; China (Yunnan).
basipunctatus (Balthasar 1942a: 115), as *Copris*; China (Fujian).
cheni (Ochi, Kon and Bai 2007: 137), as *Copris*; China (Xizang).
 **chuduraziensis* Ochi, Kon and Kawahara; ssp. of *pseudochus*
 **continentalis* Ochi and Kon; ssp. of *pecuarius*
kiuchii (Masumoto 1989: 87), as *Copris*; Thailand.
kusakabei (Ochi, Kon and Kawahara 2005: 275), as *Copris*; Myanmar (Kachin).
laevigatus (Gillet 1927: 252), as *Copris*; China (Sichuan), India (Assam), Thailand.
manni (Ochi, Kon and Bai 2009: 211), as *Copris*; China (Sichuan, Shanxi, Guanxi).
obenbergeri (Balthasar 1933: 263), as *Copris*; China (Henan, Sichuan, Yunnan), Thailand.
ochus (Motschulsky 1861: 13), as *Catharsius*; China (Fujian, Guangdong, Henan, Nei Mongol, Zhejiang),
 Japan, Korean peninsula, Mongolia(?), Russia (se. Siberia).
parapecuarius (Ochi, Kon and Kawahara 2008: 251), as *Copris*; Myanmar.
pecuarius pecuarius (Lewis 1884: 17), as *Copris*; Japan, Korean peninsula, Russia (e. Siberia).
pecuarius continentalis Ochi and Kon 2010: 130; North Korea.
pseudochus pseudochus (Ochi and Kon 2004b: 343), as *Copris*; China (Guizhou).
pseudochus chuduraziensis Ochi, Kon and Kawahara 2019: 469; Myanmar (Kachin).
quasilaevigatus (Ochi, Kon and Bai 2007: 142), as *Copris*; China (Sichuan, Xizang).
sabinus (Gillet 1910: 17), as *Copris*; India (Himachal Pradesh, Uttar Pradesh), Nepal.
sacotala (Kollar and Redtenbacher 1844: 519) [in Redtenbacher], as *Copris*; China (Xizang), India
 (Himachal Pradesh, Sikkim, Uttar Pradesh), Nepal.
tsukamotoi (Ochi, Kon and Kawahara 2008: 248), as *Copris*; Myanmar.
uenoi (Hanboonsong, Masumoto and Ochi 2003: 106), as *Copris*; Thailand.
 –*yamamotoi* (Tesař 1937: 101), as *Copris*; = *pecuarius pecuarius*
yangi (Ochi, Kon and Bai 2007: 140), as *Copris*; China (Sichuan).
zhangii (Ochi, Kon and Bai 2009: 214), as *Copris*; China (Quinhai, Guizhou, Sichuan).

***Thyregis* Blackburn**

Blackburn 1904: 145; type sp. *T. kershawi* Blackburn, 1904.

–*Arrowianella* Paulian 1933: 68; type sp. *A. tarsata* Paulian, 1933.

Species-group taxa

kershawi Blackburn 1904: 145; Australia (e. NSW, Victoria).

- monteithi* Matthews 1976: 26; Australia (s. Queensland).
–*pauliani* (Frey 1970: 153), as *Arrowianella*; = *kershawi*
relictus Matthews 1976: 25; Australia (NSW).
tarsatus (Paulian 1933: 68), as *Arrowianella*; Australia (NSW, WA).

Acknowledgments

I am grateful to W. D. Edmonds (Portland, OR, USA), Devanshu Gupta (Zoological Survey of India, Kolkata), Kimio Masumoto (Tokyo, Japan), Geoff B. Monteith (Queensland Museum, Brisbane, Australia), Teruo Ochi (Osaka, Japan) and Stefano Ziani (Meldola, FC, Italy) for information and checking various parts of the manuscript.

Literature Cited

- Abeille de Perrin, E. 1901.** Nouvelles espèces de coléoptères français. L'Echange, Revue Linnéenne 17: 68–70.
- Arrow, G. J. 1906.** XIX. On lamellicorn Coleoptera from Portuguese West Africa, with descriptions of new species. Annals and Magazine of Natural History (7) 18: 127–136.
- Arrow, G. J. 1931.** The fauna of British India including Ceylon and Burma. Coleoptera Lamellicornia. Part III (Coprinae). Taylor & Francis; London. 428 p.
- Arrow, G. J. 1933.** Notes on coprid Coleoptera, with descriptions of a new genus and a few new species. Annals and Magazine of Natural History (10) 12: 421–430.
- Balthasar, V. 1933.** Die chinesischen *Copris*-Arten mit Beschreibung von zwei neuen Arten. Stettiner Entomologische Zeitung 94: 263–273.
- Balthasar, V. 1934.** Neue Coprinen-Arten und Abarten. Entomologische Blätter 30: 146–149.
- Balthasar, V. 1939a.** Neue Arten der coprophagen Scarabaeiden aus dem Museo Zoologico della R. Università di Firenze. Redia 25: 1–36.
- Balthasar, V. 1939b.** Neue Arten der palaearktischen und neotropischen coprophagen Scarabaeiden. Entomologické Listy 2: 41–47.
- Balthasar, V. 1942a.** Die Coprophagen der chinesischen Provinz Fukien. Entomologische Blätter 38: 113–125.
- Balthasar, V. 1942b.** Neue Arten und Gattungen der coprophagen Scarabaeiden. Acta Entomologica Musei Nationalis Pragae 20: 188–205.
- Balthasar, V. 1953.** Die Coprophagen der chinesischen Provinz Fukien (II. Teil). Sborník Entomologického Oddělení Národního Musea v Praze 28[1952]: 223–236.
- Balthasar, V. 1958.** Eine neue Untergattung und einige neue Arten der Gattung *Copris*. Sborník Entomologického Oddělení Národního Musea v Praze 32: 471–480.
- Balthasar, V. 1961.** Coléoptères Scarabaeidae nouveaux de l'Afrique tropicale. Revue Zoologique et Botanique Africaine (Bruxelles) 63(1–2): 96–104.
- Balthasar, V. 1963.** Monographie der Scarabaeidae und Aphodiidae der palaearktischen und orientalischen Region (Coleoptera: Lamellicornia). Band 1. Allgemeiner Teil. Systematischer Teil: 1. Scarabaeinae; 2. Coprinae ((Pinotini, Coprini). Verlag der Tschechoslowakischen Akademie der Wissenschaften; Prag. 391 p.
- Balthasar, V. 1965.** Eine neue Untergattung und neue Arten der Familie Scarabaeidae (Col.). Acta Entomologica Bohemoslovaca 62: 14–23.
- Balthasar, V. 1967.** The scientific results of the Hungarian Soil Zoological Expedition to the Brazzaville-Congo. 22. Scarabaeinae and Coprinae (Coleoptera). Opuscula Zoologica (Budapest) 7(2): 47–73.
- Biswas, S. 1979.** Studies on the scarab beetles (Coleoptera: Scarabaeidae) of North India, Part 2. Three new species and two new records. Journal of the Bombay Natural History Society 76: 325–398.
- Blackburn, T. 1889.** Notes on Australian Coleoptera, with descriptions of new species. Proceedings of the Linnean Society of New South Wales 4: 1247–1276.

- Blackburn, T. 1904.** Revision of the Australian Aphodiides, and descriptions of three new species allied to them. *Proceedings of the Royal Society of Victoria* 17: 145–181.
- Blatchley, W. S. 1918.** On some new or noteworthy Coleoptera from the west coast of Florida. IV. *Canadian Entomologist* 50(2): 52–59.
- Boheman, C. H. 1857.** *Insecta Caffrariae annis 1837–1845 a J. A. Wahlberg collecta amici auxilio suffultus descripsit. Pars. 2. Coleoptera (Scarabaeidae), t. 1. Norstedt; Holmiae.* 395 p.
- Boheman, C. H. 1858.** Coleoptera. Species novas descripsit; in *Kungliga Svenska Fregatten Eugenie resa omkring Jordan, etc., Zoologi 1, Insecta.* Stockholm. 112 p.
- Boheman, C. H. 1860.** Coleoptera sammlade af J. A. Wahlberg i sydvestra Afrika. *Ófversigt af Kungliga Svenska Vetenskapsakademiens Förhandlingar* 17(1): 3–22, 17(3): 107–120.
- Boucumont, A. 1914.** Les Coprophages de l'archipel malais. *Annales de la Société Entomologique de France* 84: 238–250.
- Boucumont, A. 1924.** Lamellicornes Coprophages d'Indochine. *Bulletin de la Société Entomologique de France* 1924: 210–214.
- Boucumont, A. 1928.** *Coprophaga africana*, 4^e note. *Revue Zoologique et Botanique Africaine (Bruxelles)* 15(4): 415–425.
- Boucumont, A. 1932.** *Coprophaga africana*, 6^e note. *Revue Zoologique et Botanique Africaine (Bruxelles)* 22(1): 46–53.
- Branco, T. 2007.** Scarabaeoidea (Coleoptera) of Portugal: genus-group names and their type species. *Zootaxa* 1453: 1–31.
- Bui, V. B., T. Ziegler, and M. Bonkowski. 2019.** Checklist of beetles in the subgenus *Copris* (*Paracopris*) Balthasar from Asia with description of a new species, and redescription of *Copris* (*Paracopris*) *punctulatus* Wiedemann (Coleoptera: Scarabaeidae: Scarabaeinae). *Zootaxa* 4712(1): 051–064.
- Burmeister, H. 1838–1846.** Genera quaedam insectorum. Iconibus illustravit et descripsit. Volumen I. Continet tabulas XL. Sumtibus A. Burmeister; Berolini. [Unpaginated, machine-counted 218 p., Lamellicornia p. 86–130, pl. 26–40, P. S. dated July 1846.]
- Cambefort, Y. 1992a.** Révision des espèces afro-tropicales du genre *Copris* Müller, 1764. IX. Le groupe *urus* Boheman (Coleoptera, Scarabaeidae). *Bulletin de la Société Entomologique de France* 97(1): 25–31.
- Cambefort, Y. 1992b.** Révision des espèces afrotropicales du genre *Copris* Müller, 1764. X. Espèces nouvelles ou peu connues (Coleoptera, Scarabaeidae). *Revue Française d'Entomologie (N.S.)* 14(4): 179–183.
- Cambefort, Y., and T. Nguyen-Phung. 1996.** On the genus *Copris* Müller, 1764: Definition and phylogenetic survey of the Afrotropical species-groups (Coleoptera: Scarabaeidae). *Journal of African Zoology* 110(4): 271–289.
- Cassis, G., and T. A. Weir. 1992.** Coprini. p. 112–118. *In: W. W. K. Houston (ed.). Zoological Catalogue of Australia. Coleoptera: Scarabaeoidea. AGPS Vol. 9; Canberra.* xii + 544 p.
- Cheung, K., M. Bai, M. Leung, Y. Lee, K. Chan, and X. Yang. 2018.** Scarabaeinae (Coleoptera: Scarabaeidae) from Hong Kong. *Zoological Systematics* 43(3): 233–267.
- Davis, A. L. V., A. V. Frolov, and C. H. Scholtz. 2008.** The African dung beetle genera. Protea Book House; Pretoria. 272 p.
- DeGeer, C. 1778.** Mémoires pour servir à l'histoire des Insectes. Tome septième. Imprimerie Pierre Hesselberg; Stockholm. 950 p.
- Delgado, L., and B. Kohlmann. 2001.** A new species and two subspecies of *Copris* from Mexico and Central America (Coleoptera: Scarabaeidae; Scarabaeinae). *Journal of the New York Entomological Society* 109(3–4): 344–353.
- Deyrolle, H. 1878.** [New taxa]. *In: H. Deyrolle and L. Fairmaire. Descriptions de coléoptères recueillis par M. l'abbé David dans la Chine centrale. Annales de la Société Entomologique de France* (5) 8: 87–140.
- Doube, B. M., A. Macqueen, T. J. Ridsdill-Smith, and T. A. Weir. 1991.** Native and introduced dung beetles. p. 255–278. *In: I. Hanski and Y. Cambefort (eds.). Dung beetle ecology.* Princeton University Press; Princeton, NJ. xii + 481 p.

- Drury, D. 1770–1782.** Illustrations of Natural History. Vols. I–III. B. White; London. I: 130 p. [1770], II: 90 p. [1773], III: 76 p. [1782].
- Edmonds, W. D. 1994.** Revision of *Phanaeus* Macleay, a New World genus of scarabaeine dung beetles (Coleoptera: Scarabaeidae, Scarabaeinae). Natural History Museum of Los Angeles County, Contributions in Science 443: 1–105.
- Fabricius, J. C. 1775.** Systema entomologiae sistens insectorum classes, ordines, genera, species adiectis synonymis, locis, descriptionibus, observationibus. Officina Libraria Kortii; Flensburgi et Lipsiae. 832 p.
- Fabricius, J. C. 1781.** Species insectorum exhibentes eorum differentias, synonyma auctorum, loca natalia, metamorphosis adiectis observationibus, descriptionibus. Impensis Carol Ernest Bohnii; Hamburgi et Kilonii. Tomus I: 552 p., Tomus II: 494 p.
- Fabricius, J. C. 1787.** Mantissa insectorum sistens eorum species nuper detectus adiectis characteribus genericis, differentiis specificis, emendationibus, descriptionibus. Tomus I. C. G. Proft; Hafniae. 348 p.
- Fabricius, J. C. 1792.** Entomologia systematica emendata et aucta. Secundum classes, ordines, genera, species adiectis, synonymis, locis, observationibus, descriptionibus. Tomus I. C. G. Proft; Hafniae. 330 p.
- Fabricius, J. C. 1794.** Entomologia systematica emendata et aucta. Secundum classes, ordines, genera, species adiectis synonymis, locis, observationibus, descriptionibus. Tomus IV. [Appendix specierum nuper detectarum, p. 435–462]. C. G. Proft; Hafniae. 472 p.
- Fabricius, J. C. 1801.** Systema eleutheratorum secundum ordines, genera, species: adiectis synonymis, locis, observationibus, descriptionibus. Tomus I. Bibliopoli Academici Novi; Kiliae. 506 p.
- Falahee, S. L., and R. B. Angus. 2010.** Chromosomal separation of difficult species of *Copris* Geoffroy, 1762 and *Onthophagus* Latreille, 1802 (Coleoptera, Scarabaeidae), with discussion of *O. massai* Baraud as a British Pleistocene fossil. p. 17–32. In: B. Ratcliffe and F.-T. Krell (eds.). Current advances in Scarabaeoidea research. ZooKeys 34: 1–208.
- Faldermann, F. 1835.** Addimenta entomologica ad faunam rossicam in itineribus Jussu Imperatoris Augustissimi annis 1827–1831 a Cl. Ménétrés et Szovitz susceptis collecta, in lucem edita. Nouveaux Mémoires de la Société Impériale des Naturalistes de Moscou (2) 4: 1–310.
- Felsche, C. 1901.** Beschreibungen coprophagen Scarabaeiden. Deutsche Entomologische Zeitschrift 1901: 135–153.
- Felsche, C. 1904.** Coprophages der Ausbeute des Herrn Prof. Dr. Yngve Sjöstedt. Arkiv för Zoologi 1(3): 399–409.
- Felsche, C. 1908.** Über coprophage Scarabaeiden. Deutsche Entomologische Zeitschrift 1908: 271–274.
- Felsche, C. 1909.** Neue und alte coprophage Scarabaeiden (Col.). Deutsche Entomologische Zeitschrift 1909: 751 – 765.
- Felsche, C. 1910.** Über coprophage Scarabaeiden. Deutsche Entomologische Zeitschrift 1910: 339–352.
- Ferreira, M. C. 1958a.** Duas espécies novas do género *Copris* Geoffroy. Novos Taxa Entomologicos 9: 1–5.
- Ferreira, M. C. 1958b.** Coleoptera Scarabaeidae. Coprinae. South African Animal Life 5: 479–516.
- Ferreira, M. C. 1959.** Scarabaeini, Gymnopleurini, Canthonini and Coprini (Coleoptera Lamellicornia), Fam. Scarabaeidae. Exploration Parc National Upemba, Mission G. F. de Witte 58: 1–33.
- Ferreira, M. C. 1960.** Revisão das espécies africanas de “*Catharsius*” s. str. do “grupo *adamastor*” e descrição de espécies novas (Col. Lamellicornia). Revista de Entomologia de Moçambique 3(1): 1–73.
- Ferreira, M. C. 1961a.** A new species of *Copris* Geoffroy in the Museum G. Frey. Entomologische Arbeiten aus dem Museum G. Frey 12(1): 138–139.
- Ferreira, M. C. 1961b.** Revisão das espécies etiópicas do género “*Copris*” Geoffroy e géneros afins. Revista de Entomologia de Moçambique 4(1): 81–234, 4(2): 235–333.
- Ferreira, M. C. 1962a.** Coprinae (Coleoptera Lamellicornia), Fam. Scarabaeidae. Exploration Parc National Garamba, Mission H. de Saeger 30: 1–123.
- Ferreira, M. C. 1962b.** Contribuição para o conhecimento dos Escarabídeos de Angola. Publicações Culturais da Companhia de Diamantes de Angola 54: 121–190.
- Ferreira, M. C. 1969.** Contribuição para o conhecimento dos Escarabídeos de África. Descrição de uma espécie nova de *Copris* s. str. Novos Taxa Entomologicos 72: 3.

- Ferreira, M. C. 1972.** Os Escarabádeos de África (Sul do Sáara), I. Revista de Entomologia de Moçambique 11[1968–1969]: 5–1088.
- Frey, G. 1970.** Neue australische Coprinae (Scarab., Col.). Entomologische Arbeiten aus dem Museum G. Frey 21: 150–153.
- Frey, G. 1974.** Neue Lamellicornia aus der Zoologischen Staatssammlung in München. Entomologische Arbeiten aus dem Museum G. Frey 25: 276–280.
- Frey G. 1975.** Neue Coprophagen aus dem Zentralafrikanischen Museum in Tervuren und aus meine Museum. Entomologische Arbeiten aus dem Museum G. Frey 26: 292–296.
- Gahan, C. J. 1894.** Descriptions of some new Coleoptera from Costa Rica. Annals and Magazine of Natural History (6) 14: 115–120.
- Gemminger, M., and E. Harold. 1869.** Catalogus Coleopterorum hucusque descriptorum synonymicus et systematicus. Tomus IV. Scarabaeidae. E. H. Gummi; Monachii. p. 979–1041.
- Geoffroy, E. L. 1762.** Histoire abrégée des Insectes qui se trouvent aux environs de Paris, dans laquelle ces animaux sont rangés suivant un ordre méthodique. Tome première. Durand; Paris. 523 p.
- Gerstaecker, C. E. 1884.** Bestimmung der von G. A. Fischer während seiner Reise nach den Massai-Land gesammelten Coleoptera. Jahrbuch der Hamburgischen Wissenschaftlichen Anstalten 1: 43–63.
- Gill, B. D. 1986.** A new species of *Coprins* from South India. Journal of the Bombay Natural History Society 83: 632–633.
- Gillet, J. J. E. 1907.** Contribution à l'étude des coprophages de la faune africaine. Annales de la Société Entomologique de Belgique 51(3): 177–184.
- Gillet, J. J. E. 1908.** Coprides d'Afrique tropicale. Descriptions d'espèces nouvelles et remarques sur quelques espèces connues. Mémoires de la Société Entomologique de Belgique 16: 63–82.
- Gillet, J. J. E. 1910.** Espèces nouvelles du genre *Coprins* et relevé synonymique des espèces décrites à ce jour. Notes from the Leyden Museum 32: 1–31.
- Gillet, J. J. E. 1911a.** Lamellicornia Onthophila. Description de deux espèces de Hope et l'identification d'une espèce d'Olivier. Annales de la Société Entomologique de Belgique 55: 288–291.
- Gillet, J. J. E. 1911b.** Scarabaeidae: Coprinae I. p. 3–100. In: W. Junk and S. Schenkling (eds.). Coleopterorum Catalogus Vol. 19, Pars 38: Lucanidae, Passalidae, Scarabaeidae. W. Junk; Berlin. 263 p.
- Gillet, J. J. E. 1918.** Coprides nouveaux de la région éthiopienne et remarques diverses. Zoologische Mededeelingen 4: 146–158.
- Gillet, J. J. E. 1921.** Description de Lamellicornes coprophages indo-malais. Annales de la Société Scientifique de Bruxelles 41[1921–1922]: 123–129.
- Gillet, J. J. E. 1925.** Results of Dr E. Mjöberg's Swedish scientific expeditions to Australia 1910–1913. 40. Scarabaeidae: Geotrupinae et Coprinae. Arkiv för Zoologi (A) 17: 1–16.
- Gillet, J. J. E. 1927.** Descriptions de Lamellicornes coprophages nouveaux. Bulletin et Annales de la Société Entomologique de Belgique 67: 251–261.
- Gillet, J. J. E. 1933.** Lamellicornes coprophages, 2^e note. Bulletin et Annales de la Société Entomologique de Belgique 72(11–12): 323–332.
- Gillet, J. J. E., and H. d'Orbigny. 1908.** Coprophages et Dynastides provenant du voyage de M. F. Colmant dans les régions de l'Uellé du Bomu et du Baher-el-Gazal. Annales de la Société Entomologique de Belgique 52(2): 54–67.
- Gistel, J. N. F. X. 1857.** Achthundert und zwanzig neue oder unbeschriebene wirbellose Thiere. p. 513–606. In: Vacuna oder die Geheimnisse aus der organischen und leblosen Welt. Zweiter Band. Schoerner; Straubing. 1031 p. [Descriptions also issued separately by the same publisher, paginated as p. 1–94.]
- Guérin-Méneville, F. E. 1844 [1829–1844].** Iconographie du règne animal de G. Cuvier, ou représentation d'après nature de l'une des espèces les plus remarquables et souvent non encore figurées, de chaque genre d'animaux. Avec un texte descriptif mis au courant de la science. Ouvrage pouvant servir d'atlas à tous les traités de zoologie. II. Planches des animaux invertébrés, Insectes. III. Texte explicatif, Insectes. J. B. Baillière; Paris. II: pl. 3–12, III: 576 p. [issued in parts].
- Guérin-Méneville, F. E. 1847.** [New taxa]. In: T. Lefèbvre, A. Petit, and V. Quartin-Dillon. Voyage en Abyssinie exécuté pendant les années 1839, 1840, 1841, 1842, 1843. Quatrième partie. Histoire naturelle – Zoologie, 6. A. Bertrand; Paris. 398 p.

- Gutierrez, J., A. Macqueen, and L. O. Brun. 1988.** Essais d'introduction de quatre espèces de bousiers Scarabaeinae en Nouvelle Calédonie et au Vanuatu. *Acta Ecologica* 9(1): 39–53.
- Hanboonsong, Y., K. Masumoto, and T. Ochi. 2003.** Dung beetles of Thailand. Part 5. Genera *Copris* and *Microcopris* (Coprini). *Elytra* 31(1): 103–124.
- Harold, E. 1868a.** Diagnosen neuer Coleopteren. *Coleopterologische Hefte* 4: 79–86.
- Harold, E. 1868b.** Berichtigungen und Zusätze zum *Catalogus Coleopterorum Synonymicus et Systematicus*. *Coleopterologische Hefte* 4: 95–104.
- Harold, E. 1869a.** Ueber coprophage Lamellicornien mit besonderer Berücksichtigung der Pariser Sammlungen. *Coleopterologische Hefte* 5(3): 46–70.
- Harold, E. 1869b.** Diagnosen neuer Coprophagen VIII. *Coleopterologische Hefte* 5: 95–104.
- Harold, E. 1869c.** Note sur quelques Coprides du Mexique. *Annales de la Société Entomologique de France* (4) 9: 493–512.
- Harold, E. 1875.** Diagnosen neuer Arten. *Coleopterologische Hefte* 14: 137–140.
- Harold, E. 1877a.** Enumération des Lamellicornes coprophages rapportés de l'Archipel Malais, de la Nouvelle Guinée et de l'Australie boréale par MM J. Doria, O. Beccari et L. M. D'Albertis. *Annali del Museo Civico di Storia Naturale di Genova* 10: 38–110.
- Harold, E. 1877b.** *Coleopterorum species novae*. *Mittheilungen des Münchener Entomologischen Vereins* 1: 97–111.
- Harold, E. 1878.** Ueber Coleopteren aus dem tropischen Afrika. *Mittheilungen des Münchener Entomologischen Vereins* 2: 38–53.
- Harold, E. 1880.** Einige neue Coleopteren. *Mittheilungen des Münchener Entomologischen Vereins* 4: 148–171.
- Harold, E. 1881.** Einige neue Coleopteren (II. Stück). *Mittheilungen des Münchener Entomologischen Vereins* 5: 89–92.
- Herbst, J. F. W. 1789.** *Natursystem aller bekannten in- und ausländischen Insekten, als eine Fortsetzung der von Büffonschen Naturgeschichte. Nach dem System des Ritters von Linné und Fabricius zu bearbeiten angefangen von Carl Gustav Jablonsky von Johann Friedrich Wilhelm Herbst. Der Käfer zweyter Theil.* Joachim Pauli; Berlin. 330 p., pl. 7–20.
- Ho, B.-H. 2018.** A new record of *Microcopris reflexus* (Fabricius, 1787) in Kinmen Islands, with a review of *Microcopris* from Taiwan (Coleoptera: Scarabaeidae: Scarabaeinae). *Taiwanese Journal of Entomological Studies* 3(4): 63–66.
- Hope, F. W. 1842a.** Descriptions of the coleopterous insects sent to England by Dr. Cantor from Chusan and Canton, with observations on the entomology of China. *Proceedings of the Entomological Society of London* 1841: 59–65.
- Hope, F. W. 1842b.** Observations on the Coleoptera of Port Essington, in Australia, with descriptions of the following new species. *Annals and Magazine of Natural History* 9: 423–430.
- Howden, H. F., and O. P. Young. 1981.** Panamanian Scarabaeinae: taxonomy, distribution, and habits (Coleoptera, Scarabaeidae). *Contributions of the American Entomological Institute* 18(1): 1–204.
- Hubbard, H. G. 1894.** The insect guests of the Florida land tortoise. *Insect Life* 6(4): 302–315.
- ICZN (International Commission on Zoological Nomenclature) 1994.** Opinion 1754. Histoire abrégée des insectes qui se trouvent aux environs de Paris (Geoffroy, 1762): some generic names conserved (Crustacea, Insecta). *The Bulletin of Zoological Nomenclature* 51: 58–70.
- Janssens, A. 1939.** Coprini: Coleoptera Lamellicornia, Fam. Scarabaeidae. Exploration du Parc National Albert. Mission G. F. de Witte (1933–1935). *Parcs Nationaux de Congo Belge (Bruxelles)* 29: 1–104.
- Kabakov, O. N. 1988.** Novyi vid iskopaemogo *Copris* iz Gruzinskoi SSR. *Paleontologicheskii Zhurnal* 3: 110–111.
- Kabakov, O. N. 1994.** New species of lamellicorn beetles of the subfamily Scarabaeinae from Vietnam and neighbouring countries. *Russkoe Entomologicheskoe Obozrenie* 73(2): 300–317.
- Kabakov, O. N. 2006.** *Plastinchatousye zhuki podsemeistva Scarabaeinae (Insecta: Coleoptera: Scarabaeidae) fauny Rossii i sopredelnykh stran.* Rossiiskaia Akademia Nauk, Otdelenie Biologicheskikh Nauk; Moskva. 374 p.
- Klug, J. C. F. 1835.** *Insekten*. p. 27–52, pl. xv–xvi. *In: A. Erman. Reise um die Erde durch Nord-Asien*

- und die beide Oceanien in den Jahren 1828, 1829 und 1830. Verzeichniss von Thieren und Pflanzen, welche auf einer Reise um die Erde gesammelt wurden. Berlin.
- Klug, J. C. F. 1855.** Forsetzung der Diagnosen der neuen (und bereits seit mehreren Monaten vollständig gedruckten) Coleopteren, welche die Insectensendungen des Hrn. Dr. Peters von Mossambique enthalten hatten, von die Familie der Staphylinii an bis den Lamellicornia, diese mit eingeschlossen. Berichten der Akademie der Wissenschaften (Berlin) 20: 643–660.
- Kohlmann, B. 2003.** Tribu Coprini. p. 45–58. *In*: M. Á. Morón (ed.). Atlas de los Escarabajos de México. Coleoptera: Lamellicornia. Vol. II. Familias Scarabaeidae, Trogidae, Passalidae y Lucanidae. Argantia editio; Barcelona. 227 p.
- Kohlmann B., E. Cano, and L. Delgado L. 2003.** New species and records of *Coprins* (Coleoptera: Scarabaeidae; Scarabaeinae) from Central America. *Zootaxa* 167: 1–16.
- Kolbe, H. J. 1893.** Beiträge zur Kenntniss der Mistkäfer, Lamellicornia onthophila. *Stettiner Entomologische Zeitung* 54: 188–202.
- Kolbe, H. J. 1897.** Coleopteren. Die Käfer Deutsch-Ost-Afrikas. Dieter Reimer; Berlin. 368 p., 4 pl.
- Kolbe, H. J. 1907.** Neue Coprophagen aus Afrika. *Annales de la Société Entomologique de Belgique* 51(5): 25–31.
- Kolbe, H. J. 1914.** Scarabaeidae. *In*: H. Shubotz (ed.). Wissenschaftliche Ergebnisse der Deutschen Zentral-Afrika-Expedition 1907–1908. Bd. III – Zoologie. Klinkhard & Biermann; Leipzig. p. 261–416.
- Král, D., and A. Bezděk. 2016.** Tribe Coprini. p. 167–171. *In*: I. Löbl and D. Löbl (eds.). Catalogue of Palaearctic Coleoptera. Vol. 3. Revised and updated edition. Brill; Leiden. 983 p.
- Kryzhanovskii, O. L., and S. I. Medvedev. 1966.** Plastinchatousye podsem. Coprinae (Coleoptera, Scarabaeidae) provincii Yunnan v yugo-zapadnom Kitae. Ch. 1. *Entomologicheskoe Obozrenie* 45: 387–400.
- Lansberge, J. W. 1885.** Descriptions d'espèces nouvelles de coléoptères appartenant au Musée Civique de Gênes. *Annali del Museo Civico di Storia Naturale Genova* (2) 2: 375–400.
- Lansberge, J. W. 1886.** Les Coprides de la Malaisie. *Tijdschrift voor Entomologie* 29: 1–25.
- LeConte, J. L. 1854.** Descriptions of new Coleoptera collected by Thos. H. Webb, M.D. in the years 1850–51 and 52, while Secretary to the U.S. and Mexican Boundary Commission. *Proceedings of the Academy of Natural Sciences of Philadelphia* 7: 220–225.
- LeConte, J. L. 1866.** Additions to the coleopterous fauna of the United States, No. 1. *Proceedings of the Academy of Natural Sciences of Philadelphia* (2) 10: 361–394.
- Lewis, G. 1884.** On a new species of *Coprins* from Japan. *Wiener Entomologische Zeitung* 3: 17.
- Linnaeus, C. 1758.** *Systema naturae per regna tria naturae, secundum classes, ordines, genera, species, cum characteribus, differentiis, synonymis, locis.* Tomus 1. Editio decima, reformata. Laurentii Salvii; Holmiae. 824 p.
- Linnaeus, C. 1764.** *Museum S:ae R:ae Ludovicae Ulrica Regiae. Svecorum, Gothorum, Vandalorumque &c. &c. &c. In quo Animalis rariora, exotica, imprimis Insecta & conchilia describuntur & determinantur. Prodromus instar editum.* L. Salvii; Holmiae. 720 p.
- Löbl I., F.-T. Krell, and D. Král. 2006.** Coprini. p. 151–154. *In*: I. Löbl and A. Smetana (eds.). Catalogue of Palaearctic Coleoptera. Vol. 3, Scarabaeoidea – Scirtoidea – Dascilloidea – Buprestoidea – Byrrhoidea. Apollo Books; Stenstrup. 690 p.
- Marchisio R., and M. Zunino. 2012.** Il genere *Coprins* Müller. Tassonomia, filogenesi e note di zoogeografia. *Memoirs on Biodiversity*, 2. World Biodiversity Association; Verona. 176 p.
- Masumoto, K. 1989.** Coprophagid beetles from northwest Thailand, IV. *The Entomological Review of Japan* 44: 87–96.
- Matthews, E. G. 1959.** Nueva especie de *Coprins* (Col. Scarab.) y clave para la determinación de las especies mexicanas del genero. *Ciencia (México)* 19: 133–136.
- Matthews, E. G. 1961.** A revision of the genus *Coprins* Müller of the Western Hemisphere (Coleoptera, Scarabaeidae). *Entomologica Americana* (n.s.) 41: 1–137.
- Matthews, E. G. 1976.** A revision of the scarabaeine dung beetles of Australia. III. Tribe Coprini. *Australian Journal of Zoology, Supplementary Series No. 38*: 1–52.
- Matthews, E. G., and G. Halffter. 1959.** Nuevas especies americanas del genero *Coprins* (Col., Scarab.). *Ciencia (México)* 18(9–10): 191–204.

- Matthews, E. G., and G. Halffter. 1968.** New data on American *Copris* with discussion of a fossil species (Coleopt. Scarab.). *Ciencia (México)* 25: 147–162.
- Mathison, B. A., M. Hardy, A. Bezděk, and P. Schoolmeesters. 2001.** A worldwide checklist of the tribes and genera of Aegialiinae, Aphodiinae, Termitotroginae, Aulonocneminae, Scarabaeinae, and Coprinae (Coleoptera: Scarabaeoidea: Scarabaeidae). Available at <http://www.coleoptera.org/p735.htm> (Accessed on January 19, 2020).
- McCleve, S., and B. Kohlmann. 2005.** New species and new records of *Copris* (Coleoptera: Scarabaeidae: Scarabaeinae) from Mexico and the United States. *Zootaxa* 1096: 17–28.
- Mikšić, R. 1958.** Beschreibung neuer und Bemerkungen ueber bekannte Scarabaeiden aus Europa, Asien und Afrika. *Bolletino dell' Associazione Romana di Entomologia* 13: 1–8.
- Miller, S. E., R. D. Gordon, and H. F. Howden. 1981.** Re-evaluation of Pleistocene scarab beetles from Rancho La Brea, California (Coleoptera: Scarabaeidae). *Proceedings of the Entomological Society of Washington* 83: 625–630.
- Mollandin de Boissy, R. 1905.** Description d'un *Copris* Geoffroy nouveau d'Algérie. *Bulletin de la Société Entomologique de France* 1905: 110–113.
- Montreuil, O. 1998.** Analyse phylogénétique et paraphylie des Coprini et Dichotomiini (Coleoptera: Scarabaeidae). Scénario biogéographique. *Annales de la Société Entomologique de France* 34: 135–148.
- Motschulsky, V. 1860.** Entomologie spéciale. Insectes du Japon. *Etudes Entomologiques* 9: 4–39.
- Moxey, C. F. 1963.** Two new species of Coleoptera. *Entomological News* 74: 24–26.
- Müller, O. F. 1764.** Fauna insectorum Fridrichsdalina, sive methodica descriptio insectorum agri Fridrichsdalensis, cum characteribus genericis et specificis, nominibus trivialibus, locis natalibus, iconibus allegatis, novisque pluribus speciebus additis. Gleditsch; Hafniae et Lipsiae. 96 p.
- Mulsant, E. 1842.** Histoire naturelle des Coléoptères de France. Lamellicornes. Maison Libraire; Paris. & Imprimerie de Dumoulin, Ronet et Sibuet; Lyon. 626 p.
- Nguyen-Phung, T. 1987.** Révision des *Copris* afro-tropicaux. V. Un nouvelle espèce du “groupe *fidius* Olivier”. *Bulletin de la Société Entomologique de France* 91(9–10): 271–273.
- Nguyen-Phung, T. 1988a.** Révision des espèces afro-tropicales du genre *Copris* Müller 1764. VI. Le groupe *bootes* Klug (Coleoptera, Scarabaeidae). *Nouvelle Revue d'Entomologie (N.S.)* 5(3): 247–258.
- Nguyen-Phung, T. 1988b.** Révision des espèces afrotropicales du genre *Copris* Müller, 1764. VII. Le groupe *corniger* Sahlberg. *Bulletin de la Société Entomologique de France* 92(7–8): 209–219.
- Nguyen-Phung, T. 1988c.** Révision des espèces afrotropicales du genre *Copris* Müller, 1764. IV. Le groupe *fidius* Olivier (Coleoptera, Scarabaeidae). *Revue Française d'Entomologie (N.S.)* 10(1): 5–15.
- Nguyen-Phung, T. 1989.** Révision des espèces afrotropicales du genre *Copris* Müller, 1764 (Coleoptera: Scarabaeidae). VIII. Le groupe *orion* Klug. *Annales de la Société Entomologique de France (N.S.)* 25(2): 199–208.
- Nguyen-Phung, T., and Y. Cambefort. 1986a.** Révision des espèces afro-tropicales du genre *Copris* Müller, 1764. I. Le groupe *integer* Reiche (Coleoptera, Scarabaeidae). *Nouvelle Revue d'Entomologie (N.S.)* 3(4): 401–416.
- Nguyen-Phung, T., and Y. Cambefort. 1986b.** Révision des espèces afro-tropicales du genre *Copris* Müller, 1764. III. Le groupe *inhalatus* Quedenfeldt (Coleoptera, Scarabaeidae). *Revue Française d'Entomologie (N.S.)* 8(3): 100–106.
- Nguyen-Phung, T., and Y. Cambefort. 1987.** Révision des espèces afrotropicales du genre *Copris* Müller, 1764. II. Le groupe *jacchus* (Fabricius) (Coleoptera, Scarabaeidae s. str.). *Annales de la Société Entomologique de France (N.S.)* 23(1): 67–75.
- Nomura, S. 1964.** Some new forms of the Scarabaeoidea from Loochoo Islands. *Entomological Review of Japan* 16(2): 50–60, pl. 7–8.
- Ochi, T. 1992.** Studies on the coprophagous scarab beetles from East Asia, I (Coleoptera, Scarabaeidae). *Giornale Italiano di Entomologia* 6: 9–14.
- Ochi, T., and K. Araya. 1992.** Studies on the coprophagous beetles from East Asia, II (Coleoptera: Scarabaeoidea). *Giornale Italiano di Entomologia* 6(31): 79–108.
- Ochi, T., and M. Kawahara. 2012.** Notes on the coprophagous scarab-beetles from Japan (Coleoptera, Scarabaeidae). p. i–iii. In: S. Okajima and K. Akaya (eds.). *The standard of scarabaeoid beetles in Japan*. Gakken; Tokyo. i–viii + 444 p.

- Ochi, T., and M. Kon. 1996.** Studies on the coprophagous scarab beetles from East Asia, IV (Coleoptera, Scarabaeidae). *Giornale Italiano di Entomologia* 8: 17–28.
- Ochi, T., and M. Kon. 2003.** A new *Copris* from Laos (Coleoptera, Scarabaeidae). *Kogane* 4: 51–54.
- Ochi, T., and M. Kon. 2004a.** Notes on the coprophagous scarab-beetles from Southeast Asia (IV). A new horned species of *Microcopris* from Vietnam and a new subspecies of *Copris erratus* from Peleng off Sulawesi. *Kogane* 5: 25–30.
- Ochi, T., and M. Kon. 2004b.** A new species of *Copris* (Coleoptera, Scarabaeidae) from Guizhou, China. *Elytra* 32(2): 343–346.
- Ochi, T., and M. Kon. 2005.** Notes on the coprophagous scarab-beetles (Coleoptera: Scarabaeidae) from Southeast Asia (VI). Three new taxa of the tribe Coprini from Borneo. *Entomological Review of Japan* 60(1): 69–74.
- Ochi, T., and M. Kon. 2010.** Two new taxa of *Copris* (Coleoptera: Scarabaeidae) from Asia. *Entomological Review of Japan* 65(1): 127–130.
- Ochi, T., and M. Kon. 2014.** Notes on the coprophagous scarab-beetles (Coleoptera, Scarabaeidae) from Southeast Asia (XXIII). Two new species of *Ochicanthon* and one new species of *Microcopris* from the Malay Peninsula. *Kogane* 16: 79–89.
- Ochi, T., M. Kon, and M. Bai. 2007.** Three new species of the genus *Copris* (Coleoptera: Scarabaeidae) from China. *Entomological Review of Japan* 62(1): 137–144.
- Ochi, T., M. Kon, and M. Bai. 2009.** Three new species of *Copris* (Coleoptera: Scarabaeidae) from China, with description of a new subgenus. *Entomological Review of Japan* 64(2): 207–216.
- Ochi, T., M. Kon, and M. Kawahara. 2005.** A new species of the genus *Copris* (Coleoptera, Scarabaeidae) from Myanmar. *Japanese Journal of Systematic Entomology* 11(2): 275–278.
- Ochi, T., M. Kon, and M. Kawahara. 2008.** Four new species of the genus *Copris* (Coleoptera: Scarabaeidae) from Cambodia and Myanmar. *Entomological Review of Japan* 62(2): 243–253.
- Ochi, T., M. Kon, and M. Kawahara. 2019.** Notes on the coprophagous scarab beetles from southeast Asia. XXXII. Four new taxa of the genus *Copris* (Coleoptera, Scarabaeidae). *Giornale Italiano di Entomologia* 15(64): 469–478.
- Ochi, T., M. Kon, and H. T. Pham. 2019.** Five new taxa of *Copris* (Coleoptera: Scarabaeidae) from Vietnam and Laos. *Giornale Italiano di Entomologia* 15(64): 435–446.
- Ochi, T., Y. Kusui, and H. T. Pham. 2019.** A new species of *Microcopris* from north Vietnam (Coleoptera, Scarabaeidae, Scarabaeinae, Coprini). *Kogane* 22: 43–47.
- Olivier, A. G. 1789.** Entomologie, ou histoire naturelle des Insectes, avec leurs caractères génériques et spécifiques, leur description, leur synonymie et leur figures enluminées. Coléoptères. Tome premier. Baudouin; Paris. 497 p. [genera paginated separately].
- Panzer, G. W. F. 1794.** Faunae Insectorum Americae Borealis Prodromus. Felssecker; Norimbergae. 8 p.
- Paulian, R. 1933.** Révision des Coptodactylini (Col., Lamellicornia). *Bulletin de la Société Entomologique de France* 38: 67–74.
- Péringuey, L. 1901.** Descriptive catalogue of the Coleoptera of South Africa (Lucanidae and Scarabaeidae). *Transactions of the South African Philosophical Society* 12: 1–563.
- Petagna, V. 1792.** Institutiones entomologicae, I. C. Raymund; Neapoli. 718 p.
- Petiver, J. 1764.** Opera historiam naturalem spectantia; or Gazophylaceum containing several 1000 figures of Birds, ... Insects, Fish, Beetles, Moths, Flies ... from all nations on 156 copperplates with Latin and English names. Vol. 1. Milan; London. 4 + 4 + 12 + 10 p.
- Philips, T. K., E. Pretorius, and C. H. Scholtz. 2004.** A phylogenetic analysis of dung beetles (Scarabaeinae: Scarabaeidae): unrolling an evolutionary history. *Invertebrate Systematics* 18: 53–88.
- Pierce, W. D. 1946.** Descriptions of the dung beetles (Scarabaeidae) of the tar pits. *Bulletin of the Southern California Academy of Science* 45: 119–131.
- Poda von Neuhaus, N. 1761.** Insecta Musei Graecensis, que in ordines, genera et species juxta Systema Naturae Caroli Linnaei digessit. Graecii; Widmanstad. 12 + 127 + 18 p.
- Poiret, J. L. M. 1789.** Voyage en Barbarie pendant les années 1785 et 1786; avec un essai sur l'histoire naturelle du pays. Vol. 1. Paris. 363 p.
- Quedenfeldt, G. 1884.** Verzeichniss der von Herrn Major A. D. von Mechow in Angola und am

- Quango-Strom 1878-1881 gesammelten Pectinicornen und Lamellicornen. Berliner Entomologische Zeitschrift 28: 268–280.
- Ratcliffe, B. C. 1998.** An unusual new unicorn species of *Copris* from Nicaragua (Scarabaeidae: Scarabaeinae, Coprini). Coleopterists Bulletin 52(1): 93–96.
- Redtenbacher, L. 1844 + 1848.** [New taxa]. In: V. Kollar and L. Redtenbacher L. Aufzählung und Beschreibung der von Carl Freiherrn von Hügel auf einer Reise durch Kaschmir und das Himalayagebirge gesammelten Insecten. p. 393–564 + 582–585. In: K. F. Hügel (ed.). Kaschmir und das Reich der Siek. Vierter Band. Zweite Abtheilung. Hallbergerische Verlag; Stuttgart. 244–586 [1844], 587–865 + 31 pl. + 1 map [1848].
- Reiche, L. J. 1850.** Entomologie. Ordre de Coléoptères. p. 259–532. In: A. Ferret and Galinier. Voyage en Abyssinie dans les provinces du Tigré, du Samen et de l'Amhara, dédié à S.A.R. Monseigneur le Duc de Nemours. Tome troisième. Paulin; Paris. 536 p.
- Reid, C. A. M. 2000.** A complex of cryptic species in the genus *Coptodactyla* Burmeister (Coleoptera: Scarabaeidae: Coprini). Memoirs of the Queensland Museum 46(1): 231–251.
- Reitter, E. 1892.** Bestimmungs-Tabellen der Lucaniden und coprophagen Lamellicornen des palaearktischen Faunengebietes. E. Reitter; Brünn. 230 p.
- Reitter, E. 1893.** Bestimmungs-Tabellen der Lucaniden und coprophagen Lamellicornen des palaearktischen Faunengebietes. Verhandlungen des Naturforschenden Vereins in Brünn 31[1892]: 1–109.
- Robinson, M. 1941.** Studies in the Scarabaeidae of North America (Coleoptera), pts. I and II. Transactions of the American Entomological Society 67: 127–136.
- Rommel, E. 1965.** Systematische und tiergeographische Untersuchungen an dem Mondhornkäfer *Copris hispanus* (L.) (Coleoptera, Scarabaeidae). Entomologische Abhandlungen Staatlichen Museum für Tierkunde, Dresden 31(2): 57–71.
- Roth, J. R. 1851.** Diagnosen neuer Coleoptera aus Abyssinien. Archiv für Naturgeschichte 17(1): 113–133.
- Sahlberg, C. R. 1823.** Periculi Entomographici, Species Insectorum. Nondum descriptas proposituri, Fasciculus. Insecta Fennica. 66 p.
- Say, T. 1823 + 1824.** Descriptions of coleopterous insects collected in the late expedition to the Rocky Mountains, performed by the order of Mr. Calhoun, Secretary of War, under the command of Major Long. Journal of the Academy of Natural Sciences of Philadelphia 3(1): 139–216 [1823]; 3(2): 238–282, 298–331, 403–462 [1824].
- Say, T. 1835.** Descriptions of new North American coleopterous insects, and observations on some already described. Boston Journal of Natural History 1(2): 151–203.
- Saylor, L. W. 1933.** A new Mexican *Copris*. The Canadian Entomologist 65: 238–239.
- Schaeffer, C. 1906.** On *Bradycinetus* and *Bolboceras* of North America, with notes on other Scarabaeidae. Transactions of the American Entomological Society 32: 249–260.
- Schrank, F. von Paula 1798.** Fauna Boica. Durchgedachte Geschichte der in Baiern einheimischen und zahmen Thiere. Erster Band. Stein'schen Buchhandlung; Nürnberg. 720 p.
- Schaufuss, L. W. 1885.** Beitrag zur Fauna der Niederländischen besitzungen auf den Sunda-Inseln. Horae Societatis Entomologicae Rossicae 19: 183–209.
- Semenov, A. P. 1891.** Diagnoses Coleopterorum novorum ex Asia Centrali et Orientali. Horae Societatis Entomologicae Rossicae 25[1890–1891]: 262–382.
- Sharp, D. 1875.** Descriptions of some new genera and species of Scarabaeidae from tropical Asia and Malaisia. Coleopterologische Hefte 13: 33–54.
- Shipp, I. W. 1897.** Appendix I. Scarabaeidae. p. 448–452. In: A. Donaldson Smith. Through unknown African countries. The first expedition from Somaliland to Lake Lamu. E. Arnold; London. xvi + 456 p.
- Solís, A., and B. Kohlmann. 2003.** New species of dung beetles (Coleoptera: Scarabaeidae: Scarabaeinae) from Costa Rica and Panama. Zootaxa 139: 1–14.
- Staig, R. A. 1931.** The Fabrician types of insects in the Hunterian collection at Glasgow University. Coleoptera. Part I. University Press; Cambridge. XV + 110 p.
- Tesař, Z. 1937.** *Copris yamamotoi* n. sp. Časopis Československé Společnosti Entomologické 34: 101.
- Thomas, W. P. 1961.** Notes on a preliminary investigation into the habits and life cycle of *Copris incertus* Say (Coprini: Coleoptera) in New Zealand. The New Zealand Journal of Science 3(1): 8–14.

- Thomson, J. 1858.** Voyage au Gabon. Deuxième partie. Insectes. Archives Entomologiques 2: 29–469.
- Thunberg, C. P. 1818.** Coleoptera Capensia, antennis lamellatis, sive clava fissili instructa. Mémoires de l'Académie Impériale des Sciences de St.-Pétersbourg 6: 395–450.
- Tsukamoto, K. 1974.** Study on coprophagid-beetles III – Family Scarabaeidae 1. Bulletin of the Heian-High School 18: 1–16 [in Japanese with English summary].
- Walker, F. 1858.** Characters of some apparently undescribed Ceylon insects. Annals and Magazine of Natural History (3) 2: 202–209.
- Wallengren, H. 1881.** Coleoptera Transvaaliensis. Bidrag till kannendora om Transvaal-Landet i. S. Africa Coleopter-fauna. Entomologisk Tidskrift 2: 9–22.
- Walter, P. H. 1984.** Contribution à la connaissance des scarabaeides coprophages du Gabon. 4. *Pseudopedaria villiersi*, n. sp., deuxième espèce du genre. Revue Française d'Entomologie (N. S.) 6(2): 90–92.
- Warner, W. B. 1990.** Two new North American *Copris* Müller, with notes on other species (Coleoptera: Scarabaeidae). Pan-Pacific Entomologist 66(3): 232–240.
- Waterhouse, C. O. 1875.** On the lamellicorn Coleoptera of Japan. Transactions of the Royal Entomological Society of London 1875: 71–116, pl. III.
- Waterhouse, C. O. 1891a.** New Scarabaeidae in the British Museum: a fifth contribution. Annals and Magazine of Natural History (6) 7: 507–522.
- Waterhouse, C. O. 1891b.** New Scarabaeidae in the British Museum, fifth contribution. Annals and Magazine of Natural History (6) 8: 53–61.
- Wiedemann, C. R. W. 1823.** Zweihundert neue Käfer von Java, Bengalen und den Vorgebirgen der Guten Hoffnung. Zoologisches Magazin 2(1): 1–133.
- Woodruff, R. E. 1973.** The scarab beetles of Florida (Coleoptera: Scarabaeidae). Part I. The Laparosticti (Subfamilies: Scarabaeinae, Aphodiinae, Hybosorinae, Ochodaeinae, Geotrupinae, Acanthocerinae). Arthropods of Florida and Neighboring Land Areas, Vol. 8. Florida Department of Agriculture and Consumer Services; Gainesville. 108 p.
- Zelenka, W. 1992.** Beschreibung von zwei neuen Coprinen aus Südostasien. Koleopterologische Rundschau 62: 165–168.
- Zelenka, W. 1993.** Drei neue *Copris*-Arten aus Afrika (Coleoptera: Scarabaeidae). Koleopterologische Rundschau 63: 239–244.
- Zhang, Y.-W. 1988.** Scarabaeidae. p. 227–248. In: F.-S. Huang et al. (eds.). Insects of Mt. Namjagbarwa region of Xizang. Science Press; Beijing. 621 p. [in Chinese, English summary].
- Zhang, Y.-W. 1997.** [New taxa]. In: Y.-W. Zhang and Y. Su. Coleoptera: Geotrupidae, Hybosoridae, Aphodiidae and Scarabaeidae. p. 754–765. In: X. Yang (ed.). Insects of the Three Gorge Reservoir area of Yangtze River, part I. Chongqing Publishing House; Chongqing. 974 p. [in Chinese, English summary].
- Ziani, S. 2017.** Morphological revision of the western Palaearctic species of the genus *Copris* Geoffroy, 1762 with three foretibial teeth (Coleoptera: Scarabaeoidea: Scarabaeidae). Insecta Mundi 0528: 1–26.

Received December 30, 2019; accepted February 7, 2020.

Review editor Paul Skelley.