A peer-reviewed open-access journal ZooKeys Launched to accelerate biodiversity research

BUT WAIT, THERE'S MORE! DESCRIPTIONS OF NEW SPECIES AND UNDESCRIBED SEXES OF FLATTIE SPIDERS (ARANEAE, SELENOPIDAE, KARAOPS) FROM AUSTRALIA

SARAH C. CREWS



ZooKeys 1150 ♦ 2023 Special Issue

http://zookeys.pensoft.net

Nineteen new species of Karaops are described: K. durrantorum sp. nov. (3), K. morganoconnelli sp. nov. (\mathcal{P}) , K. joehaeneri sp. nov. (\mathcal{P}) , K. dalmanyi sp. nov. (23), K. garyodnyeri sp. nov. (3), K. dejongi sp. nov. (23), K. malumbu sp. nov. $(\mathcal{P} \mathcal{O})$, K. conilurus sp. nov. (\mathcal{O}) , K. yumbubaarnji sp. nov. $(\mathcal{P} \mathcal{O})$, K. markbarveyi sp. **nov.** $(\mathcal{P} \mathcal{O})$, K. nitmiluk sp. nov. (\mathcal{P}) , K. kennerleyorum sp. nov. (\mathcal{O}) , K. jawayway sp. nov. $(\cap{?})$, K. mparntwe sp. nov. $(\cap{?})$, K. larapinta sp. nov. $(\cap{?})$, K. kwartatuma sp. nov. (\lozenge), *K. madhawundu* sp. nov. (\lozenge), and *K. mareeba* sp. nov. (\lozenge). The male of K. umiida Crews, 2013 was found to be misidentified and is now K. conilurus sp. nov. Karaops yindjibarndi syn. nov. is a new synonym of K. nyiyaparli. Selenops australiensis L. Koch, 1875 is considered a nomen dubium because the holotype is an immature male, and the species previously referred to as K. australiensis (L. Koch, 1875) is here described as K. strayamate sp. nov. (\mathcal{P}). The males of K. marrayagong Crews & Harvey, 2011 and K. banyjima Crews, 2013 are described for the first time. To manage the growing diversity of the genus, most of the species have been placed in species groups, which are diagnosed. They are the Central Desert group, the *strayamate* group, the *raveni* group, the *dawara* group, the francesae group, the Kimberley group, and the Pilbara-Gascoyne group. New keys are provided to accommodate the new species, and new distribution maps and new records are provided for all species. Diagnoses and descriptions are emended where required. Images of live spiders, many not previously seen alive, and natural history information are also provided.

http://zookeys.pensoft.net





For those who want their work rapidly known to the World!

Founder

Founding Editor-in-Chief

Terry Erwin

Lyubomir Penev Institute of Biodiversity and Ecosystem Research 1940–2020 Bulgarian Academy of Sciences Yurii Gagarin Street 2 1113 Sofia, Bulgaria E-mail: l.penev@pensoft.net

Editorial Board: https://zookeys.pensoft.net/board

Focus and Scope

ZooKeys is a peer-reviewed, open-access, rapidly disseminated journal launched to accelerate research and free information exchange in taxonomy, phylogeny, biogeography and evolution of animals. ZooKeys aims to apply the latest trends and methodologies in publishing and preservation of digital materials to meet the highest possible standards of the cybertaxonomy era. ZooKeys will publish papers in systematic zoology containing taxonomic/faunistic data on any taxon of any geological age from any part of the world with no limit to manuscript size.

ZooKeys will consider for publishing works on the following topics:

- new descriptions of taxa, if they are accomplished with proper diagnoses, keys and/or revision of at least at species group level
- taxonomic revisions of extant (or "recent") and fossil animal groups
- checklists and catalogues
- phylogenetic and evolutionary analyses
- papers in descriptive and/or historical biogeography
- methodology papers
- data mining and literature surveys
- monographs, conspecti, atlases
- collections of papers, Festschrift volumes, conference proceedings

Papers containing identification keys will be accepted with priority. Extensive manuscripts consisting mostly of keys will be considered for publishing as well.

ISBN numbers will be assigned to large monographic papers (i.e., major revisions of taxa), monographs, collections of papers, Festschrift volumes, atlases, checklists, conspecti.

All content is Open Access distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited. Authors are thus encouraged to post the pdf files of published papers on their homepages or elsewhere to expedite distribution.

Editorial Office

Pensoft Publishers

Prof. Georgi Zlatarski 12, 1700 Sofia, Bulgaria. Tel. +359-2-8704281, Fax +359-2-8704282 E-mail: zookeys@pensoft.net

AUTHOR GUIDELINES

Authors are kindly requested to submit their manuscript only through the online submission module at www. pensoft.net/journals/zookeys. In case of difficulties with the submission procedure, please contact zookeys@ pensoft.net. Full text of author guidelines is available at: zookeys.pensoft. net/about#AuthorGuidelines

EXCERPTS FROM THE GUIDELINES

BODY TEXT. All papers must be in English, checked by a native Englishspeaking colleague (if author(s) is/are not native English speaker(s)). Write with precision, clarity, and economy: use the active voice and first person whenever appropriate.

WEB (HTML) LINKS. Authors may include links to other Internet resources in their article. This is especially encouraged in the reference section. When inserting a reference to a web-page, please include the http:// portion of the address.

CITATIONS WITHIN THE TEXT. Before submitting the manuscript, check each citation in the text against the **References** to ensure that they match exactly. Delete citations from the list if they are not actually cited in the text of the article. Citations in the text should be formatted as follows: (Smith 1990) or (Smith et al. 1998; Brock and Gunderson 2001; Felt 2006).

REFERENCES. It is crucial to properly format the references, because all references will be linked electronically as much as possible to the papers they cite. For all references, list all authors. You can include a DOI number for the full-text article as an alternative to or in addition to traditional volume and page numbers. Please use the following style for the reference list:

Published Papers: Polaszek A, Alonso-Zarazaga M, Bouchet P, Brothers DJ, Evenhuis NL, Krell FT, Lyal CHC, Minelli A, Pyle RL, Robinson N, Thompson FC, van Tol J (2005) ZooBank: the open-access register for zoological taxonomy: Technical Discussion Paper. Bulletin of Zoological Nomenclature 62: 210-220.

Accepted Papers: Same as above, but "In press" appears instead the page numbers.

Electronic Journal Articles: Mallet J, Willmott K (2002) Taxonomy: renaissance or Tower of Babel? Trends in Ecology and Evolution 18 (2): 57-59. https://doi.org/10.1016/S0169-5347(02)00061-7.

Paper within conference proceedings: Orr AG (2006) Odonata in Bornean tropical rain forest formations: Diversity, endemicity and applications for conservation management. In Cordero Rivera A (Ed) Forest and Dragonflies. Fourth WDA International Symposium of Odonatology, Pontevedra (Spain), July 2005. Pensoft Publishers, Sofia-Moscow, 51–78.

Book chapters: Mayr E (2000) The biological species concept. In: Wheeler QD, Meier R (Eds) Species Concepts and Phylogenetic Theory: A Debate. Columbia University Press, New York, 17-29.

Books: Goix N, Klimaszewski I (2007) Catalogue of Aleocharine Rove Beetles of Canada and Alaska. Pensoft Publishers, Sofia-Moscow, 166 pp.

Book with institutional author: International Commission on Zoological Nomenclature (1999) International code of zoological nomenclature. Fourth Edition. London: The International Trust for Zoological Nomenclature.

PhD thesis: Dalebout ML (2002) Species identity, genetic diversity and molecular systematic relationships among the Ziphiidae (beaked whales). PhD thesis, Auckland, New Zealand: University of Auckland.

Link/URL: BBC News (2019) Island leopard deemed new species. http://news.bbc.co.uk/ [accessed 3.VI.2008]

CITATIONS OF PUBLIC RESOURCE DA-TABASES: It is highly recommended all appropriate datasets, images, and information to be deposited in public resources. Please provide the relevant accession numbers (and version numbers, if appropriate). Accession numbers should be provided in parentheses after the entity on first use.

Examples of such databases include, but are not limited to:

- Zoobank (www.zoobank.org),
- Morphbank (www.morphbank.net),
- Genbank (www.ncbi.nlm.nih. gov/Genbank),
- BarCode (www.barcodinglife.org)

Providing accession numbers allows linking to and from established databases and integrates your article with a broader collection of scientific information. Please list all accession numbers directly after the References.

INTERNATIONAL CODE FOR ZOOLOGI-CAL NOMENCLATURE. ZooKevs will publish papers only strictly following the rules of the 4th edition of the International Code of Zoological Nomenclature. Each first mentioning of an animal species name within the text must be provided with author(s)' name(s). Year of publication of animal species is recommended to be given in taxonomic revisions with providing full referencing of original description in the list of references.

OPEN ACCESS FEES. Publication fees in open access journals ensure a barrier-free distribution of your paper at no charge for the readers and include costs involved in processing, formatting, publishing, indexing and archiving your paper.

The journal charges Open Access Publication Fee (see Article Processing Charges: http://zookeys.pensoft. net/about#ArticleProcessingCharges). Publication fees for larger papers will be discounted and can be negotiated with the Managing Editor.

Open Access Publication Fees are usually covered by institutional funds and grants. Discounts/waivers can be requested by private and retired zoologists, scientists from low- and middle-level income countries, postgraduate students, especially in case of exceptionally good manuscripts.

Discounts will be offered also to scientists who actively participate in the reviewing and editing process.

PRINTED VERSION. Offprints and printed issues of the journal can be purchased additionally (see journal's website). For standing orders/subscriptions please contact the Managing Editor.