



Contents

- 1** Hymenoptera functional groups' shifts in disturbance gradients at Andean forests in Southern Ecuador
Marina Mazón, Ximena López, Oscar Romero
- 17** Review of the genus *Syzeuctus* (Hymenoptera, Ichneumonidae, Banchinae) from South Korea
Gyu-Won Kang, Janko Kolarov, Jong-Wook Lee
- 31** Revision of *Neorthostigma* Belokobylskij, 1998 (Hymenoptera, Braconidae, Alysiiinae) with description of a new species from Papua New Guinea
Francisco Javier Peris-Felipo, Julia Stigenberg, Donald L. J. Quicke, Sergey A. Belokobylskij
- 49** First report and integrated analysis of two native *Trissolcus* species utilizing *Bagrada hilaris* eggs in California
Fatemeh Ganjisaffar, Elijah J. Talamas, Marie Claude Bon, Thomas M. Perring
- 71** The great greenbriers gall mystery resolved? New species of *Aprostocetus* Westwood (Hymenoptera, Eulophidae) gall inducer and two new parasitoids (Hymenoptera, Eurytomidae) associated with *Smilax* L. in southern Florida, USA
Michael W. Gates, Y. Miles Zhang, Matthew L. Buffington
- 99** Taxonomic revision of *charon-*, *floridanum-* and *muscaeforme-* groups of *Gryon* Haliday, 1833 (Hymenoptera, Scelionidae) from Japan, with descriptions of two new species and host information
Yoto Komeda, Toshiharu Mita, Yoshimi Hirose, Kenzo Yamagishi
- 137** First record of *Leptoomus janzeni* Gibson (Hymenoptera, Chalcidoidea) from Rovno amber
Serguei A. Simutnik, Evgeny E. Perkovsky, Dmitry V. Vasilenko
- 147** A study of the biology of *Epicharis (Epicharoides) picta* using emergence-traps
Hugo de Azevedo Werneck, Lucio Antonio de Oliveira Campos
- 169** First record of the carpenter bee *Xylocopa pubescens* (Hymenoptera, Apidae) in the Canary Islands confirmed by DNA barcoding
Carlos Ruiz, Daniel Suárez, Manuel Naranjo, Pilar De la Rúa
- 177** Nesting ecology of the Pacific cicada killer, *Sphex convallis* Patton (Hymenoptera, Crabronidae), in the Sonoran Desert
Joseph R. Coelho, Jon M. Hastings, Charles W. Holliday
- 193** Michael Charles Day (1942–2020)
John S. Noyes, George R. Else



Syzeuctus sambonis Uchida, 1928

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

Editor-in-Chief

Michael Ohl

Museum fuer Naturkunde, Leibniz-Institut fuer
Evolutions- und Biodiversitaetsforschung
Invalidenstr. 43
D-10115 Berlin, Germany
E-mail: Michael.Ohl@mf.n.berlin

Managing Editor

Lyubomir Penev

Institute of Biodiversity and Ecosystem Research
Bulgarian Academy of Sciences
Yurii Gagarin Street 2
1113 Sofia, Bulgaria
E-mail: info@pensoft.net

Editorial Board: <http://jhr.pensoft.net/board>

Focus and Scope

Journal of Hymenoptera Research publishes papers of high scientific quality reporting comprehensive research on all aspects of Hymenoptera, including biology, behavior, ecology, systematics, taxonomy, genetics, and morphology. Taxonomic papers describing single species are acceptable if the species has economic importance or provides new data on the biology or evolution of the genus or higher taxon. Manuscript length generally should not exceed 50 typed pages; however, no upper limit on length has been set for papers of exceptional quality and importance, including taxonomic monographs at generic or higher level.

Journal of Hymenoptera Research considers the following categories of papers for publication:

- Original research articles,
- Reviews as longer articles, offering a comprehensive overview, historical analysis or/and future perspectives of a topic,
- Monographs and collection of papers with no limit in size, published as 'special issues',
- Short communications,
- Letters and Discussion papers,
- Book reviews.

The **Journal of Hymenoptera Research** is published on behalf the International Society of Hymenopterists (www.hymenopterists.org).

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: jhr@pensoft.net

AUTHOR GUIDELINES

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

EXCERPTS FROM THE GUIDELINES

BODY TEXT. All papers must be in English, checked by a native English-speaking 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. doi: 10.1016/S0169-5347(02)00061-7.

Paper within conference proceedings: Orr AG (2006) Odonata in Bornean tropical rain forest formations: Diversity, endemism 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 J (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: Island leopard deemed new species. <http://news.bbc.co.uk/3/VI.2008> [accessed 3.VI.2008]

CITATIONS OF PUBLIC RESOURCE DATABASES: 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.boldsystems.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 ZOOLOGICAL NOMENCLATURE. The **Journal of Hymenoptera Research** 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 of EURO 15 per page for papers of less than 100 printed pages. 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, post-graduate 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.