# **Contents**

1	Effect of ecological restoration on topsoil phosphorus following afforestation on abandoned ponds in northern Chaohu Lake, China Gang Li, Shengming Dong, Hao Wang, Yanmei Guan, Patrick Tyler Deja, Wei Nie
17	Promoting private forests for biodiversity conservation and ecosystems restoration in the Sahel region Karafa Bognini, Loyapin Bondé, Sié Sylvestre Da, Abisha Mapendembe, Roch Yao Gnabeli
39	First exhaustive distribution and habitat modelling of Morimus asper (Sulzer, 1776) sensu lato (Coleoptera, Cerambycidae) in Bulgaria Rumyana Kostova, Rostislav Bekchiev, Georgi Popgeorgiev, Yurii V. Kornilev
61	Coastal beaver, Chinook, coho, chum salmon and trout response to nearshore changes resulting from diking and large-scale dam removals: synergistic ecosystem engineering and restoration in the coastal zone J. Anne Shaffer, Dave Parks, Katrina Campbell, Anna Moragne, Bligh Hueske, Pamela Adams, Jenise M. Bauman
85	Hope is the last thing lost: Colombian captive-bred population of the critically endangered Orinoco crocodile (Crocodylus intermedius) is a genetic reservoir that could help to save the species from extinction Ana M. Saldarriaga-Gómez, María Cristina Ardila-Robayo, Federico Medem, Mario Vargas-Ramírez
105	Performance of SNP markers for parentage analysis in the Italian Alpine brown bear using non-invasive samples Patrizia Giangregorio, Nadia Mucci, Anita J. Norman, Luca Pedrotti, Stefano Filacorda, Paolo Molinari, Göran Spong, Francesca Davoli
125	<b>Dynamic change of habitat quality and its key driving factors in Ningxia Hui Autonomous Region, China</b> Ding Wang, Haiguang Hao, Hao Liu, Lihui Sun, Yuyang Li
157	<b>Has climate change hijacked the environmental agenda?</b> Cássio Cardoso Pereira, Daniel Negreiros, Milton Barbosa, Fernando Figueiredo Goulart, Rodrigo de Loyola Dias, Maria Clara Melillo, Flávio Camarota, Mariana Antunes Pimenta, Marina Cruz, Geraldo Wilson Fernandes
165	Conserving the threatened woody vegetation on dune slopes: Monitoring the decline and designing adaptive strategies for restoration Amin U. Khan, Asad Abbas, Faiza Sharif, Asma Mansoor, Zafar Siddiq
183	Assessment of the threat status of reptile species from Vietnam – Implementation of the One Plan Approach to Conservation Lilli Stenger, Anke Große Hovest, Truong Quang Nguyen, Cuong The Pham, Anna Rauhaus, Minh Duc Le, Dennis Rödder, Thomas Ziegler
223	An analysis of the inter-state similarity of the herpetofaunas of Mexican states Julio A. Lemos-Espinal, Geoffrey R. Smith
257	Hydrological regime and forest development have indirect effects on soil fauna feeding activity in Central European hardwood floodplain forests Nicole Scheunemann, David J. Russell
279	Analysis of the effects of habitat characteristics, human disturbance and prey on felids presence using long-term community monitoring information J. Roberto Sosa-López, Nydia Nicté Díaz Bernal, Eugenio Padilla, Miguel Briones-Salas
297	Distribution, conservation assessment and management perspectives of Chilean micro-snails of the family Charopidae Gonzalo A. Collado, Nataly Flores, Marcela A. Vidal, Cristian Torres-Díaz, Moisés A. Valladares
319	Corrigendum: Using drone imagery to obtain population data of colony-nesting seabirds to support Canada's transition to the global Key Biodiversity Areas program. Nature Conservation 51: 155–166. doi:10.3897/natureconservation.51.96366 Lindsay A. R. Lalach, David W. Bradley, Douglas F. Bertram, Louise K. Blight
321	Small reserve but high diversity: butterfly community across an altitudinal gradient in the Brazilian Atlantic Forest Andrêsa G. Andrade, Cássio Cardoso Pereira, Vinícius F. Sperandei, Tatiana Cornelissen
	The journal Nature Conservation was established within the framework of the European

Nature Conservation 53 + 2023

ed to accelerate biodiversity conservation

pean Union's Framework Program 7 large-integrated project SCALES: Securing the Conservation of biodiversity across Administrative Levels and spatial, temporal, and Ecological Scales, www.scales-project.net

SCALES

G

natureconservation.pensoft.net

ISSN 1314-3301 (online) ISSN 1314-6947 (print)





A peer-reviewed open-access journal

# lature onservation



natureconservation.pensoft.net



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

#### FOUNDER

### Lyubomir Penev

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

#### **EDITOR-IN-CHIEF**

#### Klaus Henle

Helmholtz Centre for Environmental Research – UFZ Leipzig, Germany

#### **DEPUTY EDITOR-IN-CHIEF**

#### Annegret Grimm-Seyfarth

Helmholtz Zentrum für Umweltforschung – UFZ Leipzig, Germany

#### **E**DITOR

#### **Pavel Stoev**

National Museum of Natural History at the Bulgarian Academy of Sciences Sofia, Bulgaria

# **EDITORIAL OFFICE**

#### **Pensoft Publishers**

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

# FOCUS AND SCOPE

Nature Conservation is a peer-reviewed, open-access, online and print, rapidly published journal. It is launched to mobilize ideas and data in all theoretical and applied aspects of nature conservation – biological, ecological, social and economic. Its broad scope and innovative use of media encourage interdisciplinary and integrative approaches. All papers published in Nature Conservation can be freely downloaded, copied, printed and distributed at no charge to the reader. Nature Conservation is a new-generation journal and can be seen as a platform comprising both innovative algorithms and a routine medium for the publication of data related to biodiversity.

Nature Conservation will consider publishing the following types of manuscripts:

- Original research articles
- Comprehensive reviews, historical analyses, ecological modelling and scenarios
- Monographs and collections of papers with no limit in size, published as 'special issues'
- Applied conservation papers
- Short communications •
- Letters and Forum papers
- Trend scanning papers
- Datasets and Data papers
- Web-based tools
- Book reviews

ISBN numbers will be assigned to large monographic papers, 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.

# **AUTHOR GUIDELINES**

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

#### **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 webpage, 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: Haila Y (2012) Genealogy of nature conservation: a political perspective. Nature Conservation 1: 27-52.

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 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/ [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.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.

DATA PUBLISHING. The journal offers various models of data publishing in a cooperation with the GBIF (www.gbif.org), Dryad (www.datadryad.org), Pangaea (www.pangaea.de) and other data repositories.

**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 20 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.

Note: Open access fees will be waived for all submissions published in the first four issues of Nature Conservation and will be reduced with 25 % until the journal will be covered by the ISI Web of Science. All papers published in the first issues will be later ISI covered and will have an Impact factor when the journal receives it.

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.