PhytoKeys

# **Contents**

- Ardisia crenata subsp. mukdahanensis, a new subspecies of Primulaceae from Thailand Wilawan Promprom, Phukphon Munglue, Wannachai Chatan
- Two new Pleroma species and an updated key: Melastomateae from the Serra da Canastra National Park,
  - Rosana Romero, Rodrigo Pereira Silva, Paulo José Fernandes Guimarães
- Resurrection of Sorbus tapashana (Rosaceae) based on molecular and morphological evidence Xin Chen, Wen-Xiang Hou, Jun-Ling Hu, Meng-Die Dong, Bao-Mei Tan
- Three new species of Boesenbergia (Zingiberaceae) from Sabah, Malaysia Nyee Fan Lam, Halijah Ibrahim, Yen Yen Sam, Rozainah Mohammad Zakaria, Axel Dalberg Poulsen
- A new species of Bonnetia Mart. (Bonnetiaceae) from the Pantepui of South America Rafael G. Barbosa-Silva, Benjamin M. Torke, Pedro L. Viana
- Yersinochloa nianheana (Poaceae, Bambusoideae), a new species from southern Vietnam Nong Van Duy, Tran Thai Vinh, Vu Kim Cong, Quach Van Hoi, Dang Thi Tham, Nguyen Thi Thanh Hang, Dinh Van Khiem, Hoang Thanh Truong, Nguyen Hoang Nghia, Nguyen Thi Ai Minh, Tran Van Tien
- Annotated checklist of Rubus L. (Rosaceae) from South America David A. Espinel Ortiz, Katya Romoleroux, Tim Böhnert, Maximilian Weigend
- Schiedea waiahuluensis (Caryophyllaceae), an enigmatic new species from Kaua'i, Hawaiian Islands and the first species discovered by a drone collection system Warren L. Wagner, Stephen G. Weller, Ann K. Sakai, Ben Nyberg, Kenneth R. Wood
- Gastrochilus balangshanensis (Orchidaceae, Aeridinae), a new subalpine epiphytic orchid from the Mountains Jun-Yi Zhang, Yue-Hong Cheng, Min Liao, Sen-Long Jin, Hong-Qiang Lin, Pan-Yan Yang, Hai He, Bo Xu
- Metagentiana jiangyouensis, a new species of Metagentiana (Gentianaceae) from Sichuan, China Hai-Feng Cao, Jie Cai, Yuan Zou, Hong Sun, Fang-Fang Li, An-dong Xiong, Mei-Jun Xu
- Miconia garagoana Melastomataceae: A new rheophytic species from the eastern Andes of Colombia Humberto Mendoza-Cifuentes, William Ariza-Cortés, Lyndon Carvajal Rojas
- Cryptantha whippleae (Boraginaceae), a new serpentine-adapted species endemic to northern California, U.S.A. Michael G. Simpson, Dana A. York
- Spiradiclis yanii (Rubiaceae), a new species from Guangxi, China You Nong, Li-Qun Lei, Gui-Yuan Wei, Xin-Cheng Qu, Zi-Yi Zhao, Bin Feng, Chuan-Gui Xu, Lei Wu
- Pothos deleonii (Araceae, Potheae, Pothoideae), a new species from Bukidnon, Mindanao, Philippines Maria Melanie P. Medecilo-Guiang, Derek Cabactulan
- Vincetoxicum nakaianum (Asclepiadoideae, Apocynaceae), a new species from Japan for Cynanchum magnificum Nakai, nomen nudum Ko Mochizuki, Shuichi Nemoto, Jin Murata, Tetsuo Ohi-Toma
- Hemipilia zhuxiensis (Orchideae, Orchidaceae), a new species from Hubei Province, China Cai-quan Shen, Gui-Hua Lu, Xi-Tang Chen, Li-Sha Yi, De-Qing Lan, Rui Qin, Hong Liu
- Nomenclature and systematics of two Cocconeis species (Bacillariophyta) from Lake Baikal: Cocconeis baicalensis and Cocconeis skvortzowii Rinat Gogorev, Maria Yurchak, Irina Sokolova, Anton Glushchenko, Maxim Kulikovskiy





Schiedea waiahuluensis W.L.Wagner, Weller, B.Nyberg, & A.K.Sakai, sp. nov.





#### **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**

# W. John Kress

Smithsonian Institution Washington, USA

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

# **Sandy Knapp**

The Natural History Museum London, UK

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

#### De-Zhu Li

Chinese Academy of Sciences Kunming, China

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

#### **Susanne Renner**

University of Munich (LMU) Munich, Germany

# **EDITORIAL DIRECTOR**

#### **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: phytokeys@pensoft.net

### FOCUS AND SCOPE

PhytoKeys is a peer-reviewed, open-access, rapidly disseminated journal launched to accelerate research and free information exchange in taxonomy, phylogeny, biogeography and evolution of angiosperms, gymnosperms, monilophytes, bryophytes, and algae. PhytoKeys 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. PhytoKeys will publish papers in systematic botany containing taxonomic/floristic data on any taxon of any geological age from any part of the world with no limit to manuscript size.

**PhytoKeys** will consider for publishing works on the following topics:

- descriptions of new taxa, if they are accompanied with proper diagnoses, keys and/ or distinction from close relatives or similar taxa
- taxonomic revisions of extant (or "recent") and fossil plant 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.

# **AUTHOR GUIDELINES**

Authors are kindly requested to submit their manuscript *only* through the online submission module at www.phytokeys.com. In case of difficulties with the submission procedure, please contact phytokeys@pensoft.net. Full text of author guidelines is available at: http://phytokeys.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. Citations within the text: Before submitting the manuscript, please check each citation in the text against the **References** and vice-versa to ensure that they match exactly. Citations in the text should be formatted as follows: Smith (1990) or (Smith 1990), Smith et al. (1998) or (Smith et al. 1998) and (Smith et al. 1998, 2000; Brock and Gunderson 2001; Felt 2006).

**REFERENCES.** It is important to format the references properly, because all references will be linked electronically as completely as possible to the papers cited. It is desirable to add a **DOI** (digital object identifier) number for either the full-text or title and abstract of the article as an addition to traditional volume and page numbers. If a DOI is lacking, it is recommended to add a link to any online source of an article. Please use the following style for the reference list:

**Published Papers:** Smith AR, Pryer KM, Schuettpelz E, Korall P, Schneider H, Wolf PG (2006) A classification for extant ferns. Taxon 55(3): 705–731.

**Accepted Papers:** Same as above, but "in press" appears instead the year in parentheses.

**Electronic Journal Articles:** Agosti D, Egloff W (2009) Taxonomic information exchange and copyright: the Plazi approach. BMC Research Notes 2: 53. https://doi.org/10.1186/1756-0500-2-53

Paper within conference proceedings: Kress WJ, Specht CD (2005) Between Cancer and Capricorn: phylogeny, evolution, and ecology of the tropical Zingiberales. In: Friis I, Balslev H (Eds) Proceedings of a symposium on plant diversity and complexity patterns – local, regional and global dimensions. Biologiske Skrifter, The Royal Danish Academy of Sciences and Letters, Copenhagen, 459–478.

**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:** Heywood VH, Brummitt RK, Culham A, Seberg O (2007) Flowering Plant Families of the World. Kew Publishing, 1–424.

**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:** Stahlberg D (2007) Systematics, phylogeography and polyploid evolution in the *Dactylorhiza maculata* complex (Orchidaceae). PhD Thesis, Lund University, Sweden.

**Link/URL:** BBC News: Plants 'can recognise themselves'. http://news.bbc.co.uk/earth/hi/earth\_news/newsid\_8076000/8076875.stm

**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).

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

- IPNI (www.ipni.org)
- Morphbank (www.morphbank.net)
- Genbank (www.ncbi.nlm.nih.gov/Genbank)
- BOLD (www.barcodinglife.org)

Providing accession numbers to data records stored in global data aggregators allows us to link your article to established databases, thus integrating it with a broader collection of scientific information. Please hyperlink all accession numbers through the text or list them directly after the References in the online submission manuscript.

INTERNATIONAL CODE OF NOMENCLATURE FOR ALGAE, FUNGI, AND PLANTS. PhytoKeys will publish papers that strictly adhere the rules of the last edition of the International Code of Nomenclature for algae, fungi, and plants. Descriptions of new taxa (species and below) should include the following: 1) a short Latin diagnosis followed by a full description in English, 2) an illustration (line drawing or photograph) clearly showing the diagnostic characters, 2) a comparison of the new taxon with related taxa, a diagnostic key to identification of species-group members, or at least to the closest relatives is highly desirable and may be requested by the editors 3) a discussion of the distinctive morphological characteristics, ecology, geography, and/or reproductive biology, and 4) a statement on preliminary [at least] conservation status for the taxon being described.

**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. Please visit the "Article Processing Charges" section at http://phytokeys.pensoft.net/about#ArticleProcessingCharges to learn more of our discount and waiver policies.

**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.