Contents

1

An archipelago within an archipelago: A checklist of liverworts and hornworts of Kepulauan Sunda Kecil (Lesser Sunda Islands), Indonesia and Timor-Leste (East Timor)
Ainun Nadirah, Larri Soderstrom, Anders Hagberg, Eka Aditya Putsari Iskandar, Ida Haerida, Matt vom Komrat

31

Diversity of leaf anatomy within a single leaflet and between leaflets of four Butia (Arecaceae, Arecoideae) species
Larry R. Noblick, Bruno F. Sant'anna-Santos

53

Morphology and molecules support the new monotypic genus Parainvolucrella (Rubiaceae) from Asia
Yi-Da Xu, Ming-Deng Yuan, Rui-Jiang Wang

65

A new species and a new series of Elatostema (Urticaceae) from south-western China
Dan-Hong Yin, Tong-Yi Huang, Zhen Lu, Liu-Dong Duan

73

Cyphostemma calcarium, a new species of Vitaceae from the Ankaranara Special Reserve, Madagascar
Ramer Narindra Rabarivahana, Vatiana Louisicella Ranafaelisy, Charles Rakotovao, Rindra Mananona Ranaivoson, Bing Liu, Zhi-Duan Chen, Jun Wen, Li-Ming Lu

81

Nomenclatural revision of Delphinium subg. Consolida (DC.) Huth (Ranunculaceae)
Pierre-Emmanuel DuPasquier, Véronique Andro-Durand, Lucas Batory, Wei Wang, Florian Jabbour

111

Three new endemic species of Lepanthes (Orchidaceae, Pleurothallidinae) from the highlands of Ecuador
Francisco Tobar Suarez, Maria Fernanda Lopez, Maria Jose Gasulanes, Marco Federico Montero, Tatiana Santander Garcia, Catherine Helen Graham

133

Agapetes heana, a new species of A. ser. Longifiles (Ericaceae) from Yunnan, China
Yi-Hua Tong, Ying Bai, Jian-Ming Feng, Ji-Dong Yu

141

Taxonomic notes on Cyperaceae of Nepal: new records of a genus, six species and other noteworthy species
Pradeen Bhandari, Satyam Chaudhary, Ajay Neupane, Shi-Liang Zhou, Shu-Ren Zhang

157

Three new species of Impatiens (Balsaminaceae) from southern Western Ghats, Kerala
Sudhin Arju, Murugan Gomindakumar Gowind, Venkatesh Suresh, Wadim Kalarikkal Visshu, Venugopal Nair, Sanadamma Amil Kumar

http://phytokeys.pensoft.net
For those who want their work rapidly known to the World!

Editor-in-Chief
John Kress
Smithsonian Institution
P.O. Box 37012
Washington, DC 20013-7012
U.S.A.
E-mail: kressj@si.edu

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

Editorial Board: http://phytokeys.pensoft.net/board

FocuS and ScopoE

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 will publish papers in systematic botany containing taxonomic/corloristic 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.

Editorial Office
Pensoft Publishers
Prof. Georgi Zlatarski 12, 1700 Sofia, Bulgaria. Tel.: +359-2-8704281, Fax +359-2-8704282
E-mail: phytokeys@pensoft.net

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 website, 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, Feb 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, Kalliola P, Schneider H, Wolf PG (2006)

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


**Link/URL:** BBC News Plants ‘can recognise themselves’. http://news.bbc.co.uk/earth/hi/earth_newsw/newsid_8076600/8076675.stm

**Citations of Public Resource Databases:** It is highly recommend-ed all appropriate datasets, images, and information to be deposited in public resources. Please provide the following:

- 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)
  - BOLD (www.barcodinglife.org)

For further details, see the PhytoKeys author guidelines.