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Cover Photo: *Carex* new species from Taiwan: Utricle and nutlet morphology is crucial for *Carex* identification. The image displays the utricles and nutlets of five new *Carex* species found in Taiwan (from left to right: *C. orthorhyncha*, *C. hsinchuensis*, *C. chamaecyparicola*, *C. leongii*, and *C. pseudorhynchachaenium*), illustrating interspecific variations in shape, size, hairiness, and structural detail.

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Taiwania – International Journal of Biodiversity

Author Guidelines

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Scope

The journal **Taiwania** publishes scientific papers on aspects of biodiversity, including taxonomy, phylogeny, morphology, genetics, ecology and evolutionary biology, at all levels of organization from molecular, organismal, community to ecosystem. The journal publishes original research articles, scientific notes, and invited or submitted reviews.

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Form of manuscript

Manuscripts should be written in English and proof-read by native English speaker if necessary. The first page should contain only the title, running head, authors' names and full addresses. The title should be brief and contain words useful for indexing and information retrieval. A proposed running head should not contain more than 30 characters. The corresponding author should also include phone/ fax number and e-mail address. The second page of the manuscript should contain the abstract (limited to 250 words), and keywords (max. ten words). All pages should be numbered consecutively in the bottom right-hand corner. The subdivisions of articles into **Abstract**, **Key words**, **Introduction**, **Materials and Methods**, **Results**, **Discussion**, **Acknowledgements**, and **Literature Cited**, is recommended. Acknowledgments should be kept short.

Tables

Tables should be typed on separate pages, numbered consecutively with Arabic numbers and arranged at the end of the manuscript. All tables must have titles, legends and descriptive headings and should be understandable without reference to the text. The abbreviations used in tables should be explained.

Illustrations

Illustrations should be limited to materials essential for the text, and line drawings should be used wherever possible. Previously published illustrations are not accepted except under special circumstances. All figures, whether photographs, micrographs or diagrams, should be numbered consecutively and used unit scale bar. Figures should be submitted in separate files. Please **do not** embed figures in Word document. Save vector graphics (line art) in Portable Document Format (PDF), or bitmap files (half-tones/photographs) in JPG, PNG, GIF or TIF. The maximum printed size for a full page figure is 16.7 cm by 22.3 cm, and the resolution of figures should be at least 300 dpi (at reproduction size). Photo- or micrographs which are appearing as a group should be mounted together with small spaces between the individuals, and identified by bold uppercase **Arial** letters (**A**, **B**, **C**, etc.). Line drawings must be original works and should be submitted in good-quality. They should be drawn clearly in deep-black lines on white background and each illustration should be provided with a concise but descriptive caption. The caption format for composite figures should be, for example: **Fig. 1. *Trabrooksia applanata*. A:** Fruiting bodies. **B:** Spores, surface view. Abbreviations: fb, fruiting body; s, spore. Scale bar: A = 325 µm; B = 4 µm. Color plates may be included as the authors' expense. Plan your illustrations for the smallest size possible.

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Scientific names (Binomial Latin names), with authorities, should be used in accordance with the International Code of Nomenclature for Algae, Fungi and Plants or the International Code of Zoological Nomenclature.

- Scientific names are indicated with italic font. Authors of scientific names, should follow **The International Plant Names Index** (Royal Botanic Gardens, Kew).

- For abbreviations of herbaria, consult the website **Index Herbariorum** (New York Botanical Garden).

A complete description for each new taxon must be provided and should be accompanied by appropriate illustrations. A specific name should not be used without an accompanying capitalized generic name. The generic name for each species should be written in full where it first occurs in the text, and again in the summary or abstract. Where the generic name appears frequently in the text it may be abbreviated by using the initial letter.

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Chen, S.-H., Huang, T.-C. 1980 Aeropalynological study of Taipei Basin, Taiwan. *Grana* **19**: 147–155.

Lin, C.-Y., Guilfoyle, T. J., Chen, Y.-M., Nagao, R. T., Key, J. L. 1974 The separation of RNA polymerase I and II achieved by fractionation of plant chromatin. *Biochem. Biophys. Res. Commun.* **60**: 498–506.

Robson, Narman K.B. 1996 Guttiferae. In: Huang, T.-C. *et al.* (eds.), *Flora of Taiwan*, 2nd ed. **2**: 694–714. Editorial Committee, Dept. Bot., NTU, Taipei, Taiwan.

Ackery, P.R., Vane-Wiright, R.I. 1984 Milkweed Butterflies, Cornell Univ. Press, New York, USA. 425pp.

Huang, T.-C. 1972. Pollen Flora of Taiwan. Dept. Bot., NTU, Taipei, Taiwan. pp. 63–64.

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