

Featured Article

- Identifying patterns and drivers of coral diversity in the Central Indo-Pacific marine biodiversity hotspot 343
Morana Mihaljević, Chelsea Korpany, Willem Renema, Kevin Welsb, and John M. Pandolfi

Articles

- High-latitude settings promote extreme longevity in fossil marine bivalves 365
David K. Moss, Linda C. Ivany, Robert B. Silver, John Schue, and Emily G. Artruc
- Paleoecological and stratigraphic controls on eurypterid Lagerstätten: a model for preservation in the mid-Paleozoic 383
Matthew B. Vrazo, Carlton E. Brett, and Samuel J. Cürca Jr.
- Sexual shape dimorphism and selection pressure on males in fossil ostracodes 407
Tatsubiko Yamaguchi, Rie Honda, Hiroki Matsui, and Hiroshi Nishi
- Response of subtropical submarine-cave ecosystem to Holocene cave development and Asian monsoon variability 425
Wing-Tung Ruby Chiu, Moriaki Yasubara, Hokuto Iwatani, Akibisa Kitamura, and Kazubiko Fujita
- Craniodental functional evolution in sauropodomorph dinosaurs 435
David J. Button, Paul M. Barrett, and Emily J. Rayfield

Methods in Paleobiology

- Taxonomic and numerical sufficiency in depth- and salinity-controlled marine paleocommunities 463
Martin Zuschin, Rafał Nawrot, Mathias Harzhauser, Oleg Mandic, and Adam Tomašových
- Can latitudinal richness gradients be measured in the terrestrial fossil record? 479
Danielle Fraser
- Recognizing sexual dimorphism in the fossil record: lessons from nonavian dinosaurs 495
Jordan C. Mallon
- Does my posterior look big in this? The effect of photographic distortion on morphometric analyses 508
Katie S. Collins and Michael F. Gazley

PALEOBIOLOGY

EDITORS

Catherine Badgley, Senior Editor, *University of Michigan, USA*
Carlos A. Jaramillo, *Smithsonian Tropical Research Institute, Panama*
Wolfgang Kiessling, *Friedrich-Alexander University of Erlangen-Nürnberg, Germany*
Mark Patzkowsky, *Pennsylvania State University, USA*
Shuhai Xiao, *Virginia Polytechnic Institute, USA*

OUTGOING EDITOR

Michal Kowalewski, *Florida Museum of Natural History, USA*

ASSOCIATE EDITORS

Martin Aberhan, *Museum für Naturkunde Berlin, Germany*
Paul Barrett, *Natural History Museum, London, UK*
Kevin Boyce, *Stanford University, USA*
Julia Clarke, *University of Texas, USA*
James Crampton, *GNS Science, New Zealand*
Kristina Curry Rogers, *Macalester College, USA*
John Finarelli, *University College Dublin, Ireland*
David L. Fox, *University of Minnesota, USA*
Anjali Goswami, *University College London, UK*
Jason Head, *University of Cambridge, UK*
Pincelli Hull, *Yale University, USA*
Cynthia Looy, *University of California Berkeley, USA*
Mark D. Uhen, *George Mason University, USA*

MANAGING EDITOR:

Sara A. Marcus, *Reno, Nevada, USA, paleobiology@cambridge.org*

FOUNDING EDITORS:

Thomas J. M. Schopf and Ralph G. Johnson



MEMBERSHIP INFORMATION

Members of the Paleontological Society automatically receive electronic subscriptions to *Paleobiology* and the *Journal of Paleontology* as a benefit of membership. To apply for individual membership, please go to the Paleontological Society's homepage at <http://paleosoc.org/>, where links to an electronic application, a printable paper application form, and a complete list of membership benefits are provided under the Membership heading.

The Patrons Fund was established to broaden the basis of financial support for *Paleobiology* and thus to encourage paleontological publication.

The Paleontological Society gratefully acknowledges the following Patrons of *Paleobiology*:

To become a Patron, send a check payable to *Paleobiology* to:

Paleobiology Patrons Fund
The Paleontological Society
P.O. Box 9044
Boulder, CO 80301-9044

PALEOBIOLOGY PATRONS

RICHARD P. ALVORD
ROBERT L. ANEMONE
GERALD S. BALES
RICHARD K. BAMBACH
ANNA K. BEHRENSMEYER
STIG M. BERGSTRÖM
DAVID S. BERMAN
DAVID J. BOTTJER
SANDRA J. CARLSON
WILLIAM A. CLEMENS
PAULO CUSTODI
EDWARD B. DAVIS
WILLIAM A. DIMICHELE
RUSSELL ENGELMAN
ULF ERGANDER
DOUGLAS H. ERWIN
DAVID E. FASTOVSKY
KARL W. FLESSA
MICHAEL J. FOOTE
IN MEMORY OF STEPHEN J. GOULD
JOHN C. HANDLEY
CAROLE S. HICKMAN
STEWART HOLLINGSWORTH
JOHN R. HORNER
FREDERICK H. C. HOTCHKISS
AUGUST ILG
JEREMY B. C. JACKSON
SUSAN M. KIDWELL
BRUCE S. LIEBERMAN
DAVID R. LINDBERG
ALAN R. LORD
ERNEST L. LUNDELIUS
BRUCE J. MacFADDEN
HARUYOSHI MAEDA
GEORGE R. McGHEE
DAVID L. MEYER
ARNOLD I. MILLER
WILLIAM C. MILLER, III
KEVIN PADIAN
RANDY R. PATRICK
MARK E. PATZKOWSKY
DAVID L. RODLAND
IN MEMORY OF TOM SCHOPF
ELIZABETH C. SEASTRUM
PETER M. SHEEHAN
JAMES SPRINKLE
GARY E. STRATHEARN
JACEK K. SULANOWSKI
SHERMAN SUTER
ROGER D. K. THOMAS
BRUCE H. TIFFNEY
JAMES W. VALENTINE
GEERAT J. VERMEIJ
SALLY E. WALKER
RON F. WASZCZAK
SCOTT L. WING

SUBSCRIPTION INFORMATION

Paleobiology [ISSN 0094-8373] is published four times a year (February, May, August, and November) by Cambridge University Press for the Paleontological Society. Members of the Paleontological Society automatically receive electronic subscriptions to *Paleobiology* and the *Journal of Paleontology* as a benefit of membership. Institutional subscriptions can be purchased direct from Cambridge University Press or through any major subscription agent. Print-only, online-only and bundled print and online prices are all available, and subscription prices are tiered according to institution type and size.

Please contact Cambridge University Press for further details:

For customers in North America

Email: subscriptions_newyork@cambridge.org

Phone: (800) 872-7423, option 4

For customers outside of North America

Email: journals@cambridge.org

Phone: +44 (0)1223-32-6070; Fax: +44 (0)1223-32-5150

Downloads of individual articles are available on <https://www.cambridge.org/core/journals/paleobiology>.

Reprints of individual articles may be ordered. For information on reprints, please contact Cambridge University Press.

Archives of previous issues are available on <https://www.cambridge.org/core/journals/paleobiology>.

Permissions All rights reserved. Permissions and reproduction policies, request forms, and contacts are available at: <http://www.cambridge.org/about-us/rights-permissions/>

ADVERTISING

To advertise in the journal please contact M. J. Mrvica Associates, 2 West Taunton Avenue, Berlin, NJ 08009; Phone: 856-768-9360; Fax: 856-753-0064; Email: mjmrvica@mrvica.com

ABSTRACTING AND INDEXING

Abstracting and indexing information for *Paleobiology* is available at: <https://www.cambridge.org/core/journals/paleobiology/information/abstracting-and-indexing>

POSTAL INFORMATION

Periodicals postage rate paid at New York, NY, and at additional mailing offices. POSTMASTER: Send address changes in the USA, Canada, and Mexico to: *Paleobiology*, Cambridge University Press, Journals Fulfillment Department, One Liberty Plaza, 20th floor, New York, NY 10006. Send address changes elsewhere to *Paleobiology*, Cambridge University Press, Journals Fulfillment Department, UPH, Shaftesbury Road, Cambridge CB2 8BS, England.

Copyright © 2017 The Paleontological Society. All rights reserved.

Printed in the United States of America