

Grand Patrons

RICHARD K. BAMBACH
ARTHUR J. BOUCOT
RODNEY M. FELDMAN AND CARRIE SCHWEITZER
ROBERT AND ELVIRA GASTALDO
THE FAMILY OF N. GARY LANE
A. R. (PETE) PALMER
J. WILLIAM SCHOPF
RAMAN J. SINGH
STEVEN M. STANLEY

Patrons

EDWARD J. ANDREW, JR.
WILLIAM I. AUSICH
BRUCE M. BELL
STIG M. BERGSTROM
DAVID J. BOTTJER
DONALD W. BOYD
DEREK E. G. BRIGGS
JAMES C. BROWER
ANDREW M. BUSH
JOHN L. CARTER
PETER R. CRANE
THE CUSHMAN FOUNDATION
WILLIAM A. DIMICHELE
J. ROBERT DODD
MARY L. DROSER
LUCY E. EDWARDS
ROBERT J. ELIAS
J. MARK ERICKSON
DOUGLAS H. ERWIN
HOWARD R. FELDMAN
ROBERT M. FINKS
KARL W. FLESSA
TERRENCE J. FREST
PHILIP D. GINGERICH
BRIAN F. GLENISTER
F. D. (BUD) HOLLAND, JR.
J. STEWART HOLLINGSWORTH
NIGEL C. HUGHES
THOMAS W. KAMMER
ERLE G. KAUFFMAN
PATRICIA H. KELLEY
SUSAN M. KIDWELL

ANDREW H. KNOLL
CHARLES LANE
ALLAN R. LARSON
CECILIA LENK AND PAUL K. STROTHER
JERE H. LIPPS
ALAN R. LORD
BRUCE J. MACFADDEN
CHRIS MAPLES AND SARA MARCUS
JANET WOOD McGREGOR
CHERYL L. METZ
ARNOLD I. MILLER
MOLLY F. AND CALVIN MILLER
RONALD W. MORIN
OSBORNE B. NYE, JR.
TERESA O'NEILL
RONALD L. PARSLEY
MARK E. PATZKOWSKY
JOHN POJETA, JR.
MARY LOU POJETA
JOHN K. POPE
ANNE RAYMOND
MARGARET N. REES
FRANK H. T. RHODES
RICHARD A. ROBISON
JUNE R. P. AND CHARLES A. ROSS
CHRISTOPHER A. SHAW
FREDERICK C. SHAW
LAWRENCE M. SMALL
GEORGE D. STANLEY, JR.
ROBERT J. STANTON, JR.
CARL W. STOCK
ROGER D. K. THOMAS
BRUCE H. TIFFNEY
SALLY E. WALKER
RON F. WASZCZAK
JOHNNY A. WATERS
GARY D. WEBSTER
MARK A. WILSON
SCOTT L. WING
ABBY YOCHELSON
CHARLES YOCHELSON
JEFFERY B. YOCHELSON
LOUIS G. ZACHOS

The *Journal of Paleontology* publishes manuscripts on all aspects of paleontology, including systematics, phylogeny, paleoecology, paleobiogeography, biostratigraphy, taphonomy, and evolution. It emphasizes specimen-based research and features illustrations of the highest quality possible. Manuscript treating all fossil organism groups are welcome, including invertebrates, vertebrates, plants, algae, and microorganisms of all sorts, as well as ichnofossils (trace fossils).

The *Journal of Paleontology* accepts only online manuscript submissions through the website:

<https://mc.manuscriptcentral.com/paleo>

Author guidelines can be downloaded at:

<https://www.cambridge.org/core/journals/journal-of-paleontology/information/instructions-contributors>

For questions regarding online submissions, please contact the editorial offices at:

journalofpaleontology@cambridge.org

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.

Visit The Paleontological Society website at www.paleosoc.org.

JOURNAL of PALEONTOLOGY

VOL 94 | NO 3 | MAY 2020

REGULAR ARTICLE

- 387 Silvia C. Gnaedinger and Ana María Zavattieri**
Coniferous woods from the Upper Triassic of southwestern Gondwana, Tronquimalal Group, Neuquén Basin, Mendoza Province, Argentina
- 417 Sarah Kachovich and Jonathan C. Aitchison**
Micro-CT study of Middle Ordovician Spumellaria (radiolarians) from western Newfoundland, Canada
- 436 David C. Kopaska-Merkel, Douglas W. Haywick and Richard G. Keyes**
A new mound-building biota from the lower Carboniferous of Alabama
- 457 Junfeng Guo, Jian Han, Heyo Van Iten, Zuchen Song, Yaqin Qiang, Wenzhe Wang, Zhifei Zhang, Guoxiang Li, Yifei Sun and Jie Sun**
A new tetraradial olivoid (Medusozoa) from the lower Cambrian (Stage 2) Yanjiahe Formation, South China
- 467 Yuchen Zhang, Xiacong Luan, Renbin Zhan, Colin D. Sproat and Bing Huang**
Early parasitic drilling in a rhynchonelliform brachiopod *Rongatrypa xichuanensis* from the Katian (Upper Ordovician) of central China
- 475 László Bujtor and Attila Vörös**
New kingenoid (Terebratellidina) brachiopods with larger body sizes from the Early Cretaceous of Zengővárkony (Mecsek Mountains, Hungary)
- 489 Katie S. Collins, Stewart M. Edie and David Jablonski**
Hinge and ecomorphology of *Legumen* Conrad, 1858 (Bivalvia, Veneridae), and the contraction of venerid morphospace following the end-Cretaceous extinction
- 498 Juan José Rustán, Beatriz G. Waisfeld and N. Emilio Vaccari**
The homalonotid trilobite *Burmeisteria* Salter, 1865 in the Lower Devonian of Argentina: new data in the context of southwestern Gondwana
- 513 Yanzhe Fu, Chenyang Cai and Diying Huang**
A new palaeontinid (Insecta, Hemiptera, Cicadomorpha) from the Upper Jurassic Tiaojishan Formation of northeastern China and its biogeographic significance
- 521 William I. Ausich, Mark A. Wilson and Ursula Toom**
Early Silurian recovery of Baltica crinoids following the end-Ordovician extinctions (Llandovery, Estonia)
- 531 Ann W. Harris, Frank R. Etensohn and Jill E. Carnahan-Jarvis**
Paleoecology and taxonomy of *Schoenaster carterensis*, a new encrinasterid ophiuroid species from the Upper Mississippian (Chesterian) Slade Formation of northeastern Kentucky, USA
- 548 Harry M. Maisch**
A new species of *Hypolophites* (Chondrichthyes, Myliobatiformes) from the Lower Clayton Limestone Unit of the Midway Group (Paleocene), near Malvern, Arkansas, USA
- 557 Walter G. Joyce and Julien Claude**
An alternative interpretation of the Paleogene turtle *Cardichelyon rogerwoodi* as a hinged kinosternoid
- 568 Alexander O. Averianov**
Reappraisal of arctostyloid mammal *Kazachostylops occidentalis* from the late Paleocene of Kazakhstan and phylogenetic relationships within Arctostylopida
- 580 Rodolphe Tabuce, Raphaël Sarr, Sylvain Adnet, Renaud Lebrun, Fabrice Lihoreau, Jeremy E. Martin, Bernard Sambou, Mustapha Thiam and Lionel Hautier**
Filling a gap in the proboscidean fossil record: a new genus from the Lutetian of Senegal

TAXONOMIC NOTE

- 589 Lucy A. Muir and Joseph P. Botting**
The putative Ordovician annelid worm *Haileyia adhaerens* Ruedemann, 1934 is not a recognizable fossil

Cambridge Core

For further information about this journal please
go to the journal website at:
[cambridge.org/jpa](https://doi.org/10.1017/jpa)

CAMBRIDGE
UNIVERSITY PRESS