

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
JOHN L. CARTER
PETER R. CRANE
THE CUSHMAN FOUNDATION
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
CHRIS MAPLES AND SARA MARCUS
JANET WOOD MCGREGOR
CHERYL L. METZ
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 93 | NO 4 | JULY 2019

- 593 **Filippo Barattolo, Nicola Carras, Marc André Conrad, and Rajka Radoičić**
Falsolikanella campanensis (Azéma and Jaffrezo, 1972) Granier, 1987 revisited on type material, evidence of polyphysacean nature (green algae)
- 612 **L. Morais, D.J.G. Lahr, I.D. Rudnitzki, B.T. Freitas, G.R. Romero, S.M. Porter, A.H. Knoll, and T.R. Fairchild**
Insights into vase-shaped microfossil diversity and Neoproterozoic biostratigraphy in light of recent Brazilian discoveries
- 628 **Andrej Ernst, Carlton E. Brett, and Mark A. Wilson**
Bryozoan fauna from the Reynales Formation (lower Silurian, Aeronian) of New York, USA
- 658 **Michael J. Vendrasco, Antonio G. Checa, and William P. Heimbrock**
Remarkable preservation of shell microstructures from the Late Ordovician of the Cincinnati Arch region, USA, and the success of naere among Ordovician mollusks
- 673 **Shiladri S. Das, Subhronil Mondal, Sandip Saha, Subhendu Bardhan, and Ranita Saha**
Family Naticidae (Gastropoda) from the Upper Jurassic of Kutch, India and a critical reappraisal of taxonomy and time of origination of the family
- 685 **Maximiliano Jorge Alvarez**
Phylogenetic analysis of the genus *Retrotapes* del Río, 1997 (Bivalvia, Veneridae) and systematic analysis of its taxa from Chile
- 702 **Verónica V. Vennari and Beatriz Aguirre-Urreta**
Intraspecific variability, biostratigraphy and paleobiological significance of the Southern Gondwana ammonoid genus *Lytohoplites* Spath
- 727 **Gengo Tanaka and Hiroshi Moriwaki**
Upper Miocene Ostracoda in a gravity flow deposit in Central Japan: significance of paleogeography and paleoceanography
- 740 **Sarah L. Sheffield and Colin D. Sumrall**
The phylogeny of the Diploporita: a polyphyletic assemblage of blastozoan echinoderms
- 753 **Daniel B. Blake and Merlynd K. Nestell**
Revision of the unusual Carboniferous ophiuroid *Cholaster* (Echinodermata) and remarks on skeletal differentiation within the Asterozoa
- 764 **Andrea Mancosu and James H. Nebelsick**
Paleoecology of sublittoral Miocene echinoids from Sardinia: A case study for substrate controls of faunal distributions
- 785 **Alexander N. Zimmerman, Lewis M. Brown, and Carl B. Rexroad**
A *Neognathodus*-based biozonation of the Desmoinesian Series (Pennsylvanian) in the Illinois Basin, USA
- 798 **Juliana Sterli and Marcelo S. de la Fuente**
Cranial and post-cranial remains and phylogenetic relationships of the Gondwanan meiolaniform turtle *Peligrochelys walshae* from the Paleocene of Chubut, Argentina
- 822 **Christopher R.C. Paul and Ronald L. Parsley**
'*Aristocystites? subcylindricus* var. *de bohemicus* Barrande, 1887' is a valid species of *Aristocystites* (Echinodermata, Diploporita): description and taxonomic consequences

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