



Issue 1 (published March 2013)

Christian Foth and Oliver W.M. Rauhut

Macroevolutionary and morphofunctional patterns in theropod skulls: A morphometric approach 1–16

Alexander O. Averianov and J. David Archibald

New material and reinterpretation of the Late Cretaceous eutherian mammal *Paranyctoides* from Uzbekistan 17–23

Xing Xu, Paul Upchurch, Qingyu Ma, Michael Pittman, Jonah Choiniere, Corwin Sullivan, David W. E. Hone, Qingwei Tan, Lin Tan, Dong Xiao, and Fenglu Han

Osteology of the Late Cretaceous alvarezsaurid *Linhenykus monodactylus* from China and comments on alvarezsaurid biogeography 25–46

Stephen L. Brusatte and Roger B.J. Benson

The systematics of Late Jurassic tyrannosauroid theropods from Europe and North America 47–54

Victoria M. Arbour, Nicolai L. Lech-Hernes, Tom E. Guldberg, Jørn H. Hurum, and Philip J. Currie

An ankylosaurid dinosaur from Mongolia with in situ armour and keratinous scale impressions 55–64

Tomasz Sulej and Grzegorz Niedźwiedzki

A new large capitosaur temnospondyl amphibian from the Early Triassic of Poland 65–75

Steffen Kiel, Jörn Peckmann, and Klaus Simon

Catshark egg capsules from a Late Eocene deep-water methane-seep deposit in western Washington State, USA 77–84

Anna Kozłowska, Kinga Dobrowolska, and Denis E.B. Bates

A new type of colony in Silurian (upper Wenlock) retiolitid graptolite *Spinograptus* from Poland 85–92

Timothy P. Topper, Lars E. Holmer, Christian B. Skovsted, Glenn A. Brock, Uwe Balthasar, Cecilia M. Larsson, Sandra Pettersson Stolk, and David A.T. Harper

The oldest brachiopods from the lower Cambrian of South Australia 93–109

Brief reports

Heyo Van Iten, Juliana de M. Leme, Antonio C. Marques, and Marcello G. Simões

Alternative interpretations of some earliest Ediacaran fossils from China 111–113

Andrzej Baliński and Yuanlin Sun

Preservation of soft tissues in an Ordovician linguloid brachiopod from China 115–120

Günter Bechly and Adrian Kin

First record of the fossil dragonfly family Eumorbaeschnidae from the Upper Jurassic of Poland 121–124

Recovery of ecosystems after the Permian–Triassic mass extinction

Preface by **Sylvie Crasquin** 126

Yuri D. Zakharov and Nasrin Moussavi Abnavi

The ammonoid recovery after the end-Permian mass extinction: Evidence from the Iran-Transcaucasia area, Siberia, Primorye, and Kazakhstan 127–147

Richard Hofmann, Michael Hautmann, Martin Wasmer, and Hugo Bucher

Palaeoecology of the Spathian Virgin Formation (Utah, USA) and its implications for the Early Triassic recovery 149–173

Wen Wen, Qi-Yue Zhang, Shi-Xue Hu, Michael J. Benton, Chang-Yong Zhou, Xie Tao, Jin-Yuan Huang, and Zhong-Qiang Chen

Coelacanths from the Middle Triassic Luoping Biota, Yunnan, South China, with the earliest evidence of ovoviviparity 175–193

Marie-Béatrice Forel, Sylvie Crasquin, Kinga Hips, Steve Kershaw, Pierre-Yves Collin, and János Haas

Biodiversity evolution through the Permian–Triassic boundary event: Ostracods from the Bükk Mountains, Hungary 195–219

Issue 2 (published May 2013)**Shiqi Wang, Wen He, and Shanqin Chen**Gomphotheriid mammal *Platybelodon* from the Middle Miocene of Linxia Basin, Gansu, China 221–240**Luciano Luis Rasia and Adriana Magdalena Candela**

Systematic and biostratigraphic significance of a chinchillid rodent from the Pliocene of eastern Argentina 241–254

Albert Prieto-Márquez and Jonathan R. Wagner

A new species of saurolophine hadrosaurid dinosaur from the Late Cretaceous of the Pacific coast of North America. 255–268

Rodolfo A. Garcia and Leonardo Salgado

The titanosaur sauropods from the late Campanian–early Maastrichtian Allen Formation of Salitral Moreno, Río Negro, Argentina 269–284

David M. Martill and Steve Etches

A monofenestratan pterosaur from the Kimmeridge Clay Formation (Kimmeridgian, Upper Jurassic) of Dorset, England. 285–294

Steven C. Sweetman and James D. Gardner

A new albanerpetontid amphibian from the Barremian (Early Cretaceous) Wessex Formation of the Isle of Wight, southern England 295–324

Denis Audo and Sylvain Charbonnier

Late Cretaceous crest-bearing shrimps from the Sahel Alma Lagerstätte of Lebanon 335–349

Robert G. Jenkins, Andrzej Kaim, Crispin T.S. Little, Yasuhiro Iba, Kazushige Tanabe, and Kathleen A. CampbellWorldwide distribution of the modiomorphid bivalve genus *Caspiconcha* in late Mesozoic hydrocarbon seeps 357–382**Alberto Pérez-Huerta**Functional morphology and modifications on spine growth in the productid brachiopod *Heteralosia slocomi* 383–390**Sylvain Rigaud, Rossana Martini, and Roberto Rettori**

A new genus of Norian involutinid foraminifers: Its morphological, biostratigraphic, and evolutionary significance 391–405

Adam T. Halamski

Latest Cretaceous leaf floras from southern Poland and western Ukraine 407–443

Brief reports**Fabio M. Dalla Vecchia and Paul A. Selden**

A Triassic spider from Italy. 325–330

Michael S. Engel, Aaron D. Pan, and Bonnie F. Jacobs

A termite from the Late Oligocene of northern Ethiopia. 331–334

Michał Zatoń, Paul D. Taylor, and John W.M. Jagt

Late Cretaceous gastropod egg capsules from the Netherlands preserved by bioimmuration 351–355

Book review**David Penney:** Biodiversity in space and time. 444**Issue 3** (published September 2013)**Pavel E. Gol'din and Karina A. Vishnyakova***Africanacetus* from the sub-Antarctic region: The southernmost record of fossil beaked whales 445–452**David W.E. Hone, Jonah N. Choiniere, Qingwei Tan, and Xing Xu**

An articulated pes from a small parvicursorine alvarezsaurid dinosaur from Inner Mongolia, China 453–458

Suravech Suteethorn, Jean Le Loeuff, Eric Buffetaut, Varavudh Suteethorn, and Kamonrak Wongko

First evidence of a mamenchisaurid dinosaur from the Upper Jurassic–Lower Cretaceous Phu Kradung Formation of Thailand. 459–469

Peggy Vincent, Nathalie Bardet, and Emanuela Mattioli

A new pliosaurid from the Pliensbachian, Early Jurassic of Normandy, Northern France 471–485

Charlie J. Underwood and Jan Schlögl

Deep-water chondrichthyans from the Early Miocene of the Vienna Basin (Central Paratethys, Slovakia). 487–509

Annelise Folie, Rajendra S. Rana, Kenneth D. Rose, Ashok Sahni, Kishor Kumar, Lachham Singh, and Thierry Smith Early Eocene frogs from Vastan Lignite Mine, Gujarat, India	511–524
Ben Thuy and Hartmut Schulz The oldest representative of a modern deep-sea ophiacanthid brittle-star clade from Jurassic shallow-water coral reef sediments	525–531
Elise Nardin and Jan Bohatý A new pleurocystitid blastozoan from the Middle Devonian of the Eifel (Germany) and its phylogenetic importance	533–544
Samuel Zamora, Colin D. Sumrall, and Daniel Vizcaïno Morphology and ontogeny of the Cambrian edrioasteroid echinoderm <i>Cambraster cannati</i> from western Gondwana	545–559
Alistair J. McGowan and Wolfgang Kiessling Using abundance data to assess the relative role of sampling biases and evolutionary radiations in Upper Muschelkalk ammonoids	561–572
S. Mariel Ferrari New Early Jurassic gastropods from west-central Patagonia, Argentina	579–593
Kamil Zágorský and Dennis P. Gordon Late Tortonian bryozoans from Mut Basin, Central Anatolian Plateau, southern Turkey	595–607
Patricia Nel, Alexander R. Schmidt, Claus Bässler, and André Nel Fossil thrips of the family Uzelothripidae suggest 53 million years of morphological and ecological stability	609–614
Štěpán Rak, Javier Ortega-Hernández, and David A. Legg A revision of the Late Ordovician marrellomorph arthropod <i>Furca bohemica</i> from Czech Republic	615–628
Joachim T. Haug, Christopher Castellani, Carolin Haug, Dieter Waloszek, and Andreas Maas A <i>Marrella</i> -like arthropod from the Cambrian of Australia: A new link between “Orsten”-type and Burgess Shale assemblages	629–639
Joseph P. Botting, Lucy A. Muir, Xiang-Feng Li, and Jih-Pai Lin An enigmatic, possibly chemosymbiotic, hexactinellid sponge from the early Cambrian of South China	641–649
Katarína Holcová Morphological variability of the Paratethyan Oligocene–Miocene small reticulofenestrid coccolites and its paleoecological and paleogeographical implications	651–668
Brief reports	
Fiona L. Gill and Crispin T.S. Little A new genus of lucinid bivalve from hydrocarbon seeps	573–578
Book review	
David Penney: The Great Extinctions	560
Issue 4 (published December 2013)	
Camila Bernardes, Fernando L. Sicuro, Leonardo S. Avilla, and André E.P. Pinheiro Rostral reconstruction of South American hippidiform equids: New anatomical and ecomorphological inferences	669–678
Karen H. Black, Michael Archer, Suzanne J. Hand, and Henk Godthelp Revision in the diprotodontid marsupial genus <i>Neohelos</i> : Systematics and biostratigraphy	679–706
Kenneth E. Campbell, Jr. and Zbigniew M. Bochenski Two new late Pleistocene miniature owls from Rancho La Brea, California	707–721
Lida Xing, Daqing Li, Jerald D. Harris, Phil R. Bell, Yoichi Azuma, Masato Fujita, Yuong-Nam Lee, and Philip J. Currie A new deinonychosaurian track from the Lower Cretaceous Hekou Group, Gansu Province, China	723–730
Mark J. MacDougall, Sean P. Modesto, and Jennifer Botha-Brink The postcranial skeleton of the Early Triassic parareptile <i>Sauropareion anoplus</i> , with a discussion of possible life history	737–749

Andrew B. Smith, Mike Reich, and Samuel Zamora Morphology and ecological setting of the basal echinoid genus <i>Rhenechinus</i> from the early Devonian of Spain and Germany	751–762
Colin D. Sumrall, Susana Heredia, Cecilia M. Rodríguez, and Ana I. Mestre The first report of South American edrioasteroids and the paleoecology and ontogeny of rhenopyrgid echinoderms	763–776
Sandra Gordillo and Sven N. Nielsen The Australasian muricid gastropod <i>Lepsiella</i> as Pleistocene visitor to southernmost South America	777–783
Mathias Harzhauser and Gijs C. Kronenberg The Neogene strombid gastropod <i>Persististrombus</i> in the Paratethys Sea	785–802
Joachim Gründel and Alexander Nützel Evolution and classification of Mesozoic mathildoid gastropods	803–826
Øyvind Hammer, Krzysztof Hryniewicz, Jørn H. Hurum, Magne Høyberget, Espen M. Knutsen, and Hans A. Nakrem Large onychites (cephalopod hooks) from the Upper Jurassic of the Boreal Realm	827–835
Jean-Louis Dommergues and Christian Meister Significance of intermediate forms in phyletic reconstruction of ammonites: Early Jurassic <i>Phricodoceras</i> case study	837–854
Dong-Chan Lee Late Ordovician trilobites from the Xiazhen Formation in Zhuzhai, Jiangxi Province, China	855–882
Brief reports	
Massimo Delfino, Jean-Claude Rage, Arnau Bolet, and David M. Alba Early Miocene dispersal of the lizard <i>Varanus</i> into Europe: Reassessment of vertebral material from Spain	731–735
Torsten Wappler, Romain Garrouste, Michael S. Engel, and André Nel Wasp mimicry among Palaeocene reduviid bugs from Svalbard	883–887
Book reviews	
David Penney: Bringing fossils to life	836
Ephraim Nissan: “Hybrids of Birds and Bats with a Decidedly Reptilian Flavor”	888
Contents of Volume 58	889–892