



Contents of Volume 64

Acta Palaeontologica Polonica 64 (4): 910–912, 2019

Issue 1 (published March 2019)

Editors' choice

Zofia Dubicka

Chamber arrangement versus wall structure in the high-rank phylogenetic classification of Foraminifera 1–18

Ewa Olempska, Andreas Maas, Dieter Waloszek, and Mats E. Eriksson

Exceptionally well-preserved Orsten-type phosphatocopid crustaceans from the Cambrian of Poland 19–39

Sofia A.V. Chambi-Trowell, David I. Whiteside, and Michael J. Benton

Diversity in rynchocephalian *Clevosaurus* skulls based on CT reconstruction of two Late Triassic species from Great Britain 41–64

Patrick M. O'Connor, David W. Krause, Nancy J. Stevens, Joseph R. Groenke, Ross D.E. Macphee,

Daniela C. Kalthoff, and Eric M. Roberts

A new mammal from the Turonian–Campanian (Upper Cretaceous) Galula Formation, southwestern Tanzania 65–84

Articles

Filippo Barattolo, Viorel Ionesi, and Paul Tibuleac

A new polyphysacean alga from the Miocene of Romania and its biomineralization 85–100

Krzysztof Hryniewicz, Kazutaka Amano, Maria Aleksandra Bitner, Jonas Hagström, Steffen Kiel, Adiël A. Klompmaker,

Thomas Mörs, Cristina M. Robins, and Andrzej Kaim

A late Paleocene fauna from shallow-water chemosynthesis-based ecosystems, Svalbard 101–141

Jiří Kolibáč and Difying Huang

New cleroid beetles from the Middle–Late Jurassic of China 143–155

Andrea Arcucci, Elena Previtera, and Adriana C. Mancuso

Ecomorphology and bone microstructure of Proterochampsia from the Chañares Formation 157–170

Bianca Martins Mastrandt, María Belén von Baczko, Julia Brenda Desojo, and Cesar L. Schultz

The skull anatomy and cranial endocast of the pseudosuchid archosaur *Prestosuchus chiniquensis* from the Triassic of Brazil 171–198

Esperanza Cerdeño, María E. Pérez, Cecilia M. Deschamps, and Víctor H. Contreras

A new capybara from the late Miocene of San Juan Province, Argentina, and its phylogenetic implications 199–212

Book review

Lucja Fostowicz-Frelak: World in the shale

156

Issue 2 (published June 2019)

Editors' choice

Morgan Churchill and Mark D. Uhen

Taxonomic implications of morphometric analysis of earless seal limb bones 213–230

Felix G. Marx, Erich M.G. Fitzgerald, and R. Ewan Fordyce

Like phoenix from the ashes: How modern baleen whales arose from a fossil “dark age” 231–238

Adun Samathi, Phornphen Chanthasit, and P. Martin Sander

Two new basal coelurosaurian theropod dinosaurs from the Lower Cretaceous Sao Khua Formation of Thailand 239–260

Harriet B. Drage, Thijs R.A. Vandenbroucke, Peter Van Roy, and Allison C. Daley

Sequence of post-moult exoskeleton hardening preserved in a trilobite mass moult assemblage from the Lower Ordovician

Fezouata Konservat-Lagerstätte, Morocco 261–273

Articles

Floréal Solé and Bastien Mennecart

A large hyaenodont from the Lutetian of Switzerland expands the body mass range of the European mammalian predators during the Eocene 275–290

Giovanni Bianucci, Sergio Llacer, Josep Quintana Cardona, Alberto Collareta, and Agustí Rodríguez Florit

A new beaked whale record from the upper Miocene of Menorca, Balearic Islands, based on CT-scan analysis of limestone slabs 291–302

Yuri Kimura, Yukimitsu Tomida, Daniela C. Kalthoff, Isaac Casanovas-Vilar, and Thomas Mörs

A new endemic genus of eomyid rodents from the early Miocene of Japan 303–312

Alexander O. Averianov and Alexey V. Lopatin

Sauropod diversity in the Upper Cretaceous Nemegt Formation of Mongolia—a possible new specimen of *Nemegtosaurus* 313–321

Qi Zhao, Michael J. Benton, Shoji Hayashi, and Xing Xu	323–334
Ontogenetic stages of ceratopsian dinosaur <i>Psittacosaurus</i> in bone histology	
Thomas J. Raven, Paul M. Barrett, Xing Xu, and Susannah C.R. Maidment	335–342
A reassessment of the purported ankylosaurian dinosaur <i>Bienosaurus lufengensis</i> from the Lower Lufeng Formation of Yunnan, China	
Sven Sachs, Mark T. Young, Pascal Abel, and Heinrich Mallison	343–356
A new species of metriorhynchid crocodylomorph <i>Cricosaurus</i> from the Upper Jurassic of southern Germany	
Ryoko Matsumoto, Khishigjav Tsogtbaatar, Shinobu Ishigaki, Chinzorig Tsogtbaatar, Zorig Enkhtaivan, and Susan E. Evans	363–377
Revealing body proportions of the enigmatic choristodere reptile <i>Khurendukhosaurus</i> from Mongolia	
Vincent Perrier, Ewa Olempska, David J. Siveter, Mark Williams, and Nicolas Legiot	379–397
Silurian myodocope ostracods from Poland	
Adam T. Halamski and Andrzej Baliński	399–408
<i>Thomasaria</i> vs. <i>Pyramidalia</i> conundrum in Devonian brachiopod systematics solved: An argument to formalize epitypification under the ICBN	
Heyo Van Iten, Juliana de Moraes Leme, Marcello G. Simões, and Mario Cournoyer	409–416
Clonal colony in the Early Devonian cnidarian <i>Sphenothallus</i> from Brazil	
Juraj Hrabovský	417–439
Reproductive phases of Miocene algae from central Paratethys and their bearing on systematic	
Brief report	
Khaing Khaing San, Nicholas C. Fraser, Davide Foffa, Olivier Rieppel, and Stephen L. Brusatte	357–362
The first Triassic vertebrate fossils from Myanmar: Pachypleurosaurs in a marine limestone	

Issue 3 (published September 2019)

Editors' choice

David J. Peterman, Charles N. Ciampaglio, Ryan C. Shell, and Margaret M. Yacobucci	
Mode of life and hydrostatic stability of orthoconic ectocochleate cephalopods: Hydrodynamic analyses of restoring moments from 3D printed, neutrally buoyant models	441–460
D. Cary Woodruff, David Trexler, and Susannah C.R. Maidment	
Two new stegosaur specimens from the Upper Jurassic Morrison Formation of Montana, USA	461–480

Articles

Daniela P. Ruiz and Josefina Bodnar	481–488
The oldest record of <i>Juniperoxylon</i> , a cupressaceous fossil wood from the Middle Triassic of Argentina	
Marissa J. Betts, Thomas M. Claybourn, Glenn A. Brock, James B. Jago, Christian B. Skovsted, and John R. Paterson	489–522
Shelly fossils from the lower Cambrian White Point Conglomerate, Kangaroo Island, South Australia	
María E. Raffi, Eduardo B. Olivero, and Florencia N. Milanese	523–542
The gaudryceratid ammonoids from the Upper Cretaceous of the James Ross Basin, Antarctica	
Michał Ginter and Michał Zlotnik	549–564
Mississippian chondrichthyan fishes from the area of Krzeszowice, southern Poland	
Sven Sachs, Michela M. Johnson, Mark T. Young, and Pascal Abel	565–579
The mystery of <i>Mystriosaurus</i> : Redescribing the poorly known Early Jurassic teleosaroid thalattosuchians <i>Mystriosaurus laurillardi</i> and <i>Steneosaurus brevior</i>	
Tzu-Ruei Yang, Jasmina Wiemann, Li Xu, Yen-Nien Cheng, Xiao-Chun Wu, and P. Martin Sander	581–596
Reconstruction of oviraptorid clutches illuminates their unique nesting biology	
Nicolás Bauzá, Javier N. Gelfo, and Guillermo M. López	597–607
Early steps in the radiation of notoungulate mammals in southern South America: A new henicosborniid from the Eocene of Patagonia	
Alberto Collareta, Franco Cigala Fulgosi, and Giovanni Bianucci	609–626
A new kogiid sperm whale from northern Italy supports psychrospheric conditions in the early Pliocene Mediterranean Sea	
Myriam Boivin, Pierre-Olivier Antoine, Aldo Benites-Palomino, Laurent Marivaux, and Rodolfo Salas-Gismondi	627–642
A new record of a giant neoepiblemid rodent from Peruvian Amazonia and an overview of lower tooth dental homologies among chinchilloids	
Maxim V. Sinitsa and Nataliya V. Pogodina	643–667
The evolution of early <i>Spermophilus</i> in eastern Europe and the antiquity of the Old World ground squirrels	

Brief report**Yichen Wu and Jianni Liu**Anatomy and relationships of the fuxianhuiid euarthropod *Guangweicaris* from the early Cambrian Guanshan Biota

in Kunming, Southwest China revisited

543–548

Issue 4 (published December 2019)**Editors' choice****Gerald Mayr**Hindlimb morphology of *Palaeotis* suggests palaeognathous affinities of the Geranoididae and other “crane-like” birds

from the Eocene of the Northern Hemisphere 669–678

Marek Dec

Hydrodynamic performance of psammosteids: New insights from computational fluid dynamics simulations

679–684

Joachim T. Haug, Carolin Haug, and Günter SchweigertThe oldest “intermetamorphic” larva of an achelatan lobster from the Lower Jurassic *Posidonia* Shale, South Germany

685–692

Articles**Qigao Jiangzuo, Jinyi Liu, and Jin Chen**

Morphological homology, evolution, and proposed nomenclature for bear dentition

693–710

Ariana Paulina-Carabajal, Juliana Sterli, and Ingmar WerneburgThe endocranial anatomy of the stem turtle *Naomichelys speciosa* from the Early Cretaceous of North America

711–716

Lene L. Delsett, Aubrey J. Roberts, Patrick S. Druckenmiller, and Jørn H. Hurum

Osteology and phylogeny of Late Jurassic ichthyosaurs from the Slottsmøya Member Lagerstätte

(Spitsbergen, Svalbard) 717–743

Torsten M. Scheyer, Andrew G. Neuman, and Donald B. Brinkman

A large marine eosauroptrygian reptile with affinities to nothosauroid diapsids from the Early Triassic of British Columbia, Canada

745–755

Richard J. Butler, Andrey G. Sennikov, Martín D. Ezcurra, and David J. GowerThe last erythrosuchid—a revision of *Chalishevia cothurnata* from the late Middle Triassic of European Russia

757–774

Thomas Schubnel and Andre Nel

New Paleogene mantises from the Oise amber and their evolutionary importance

779–786

Tomáš Dvořák, Martina Pecharová, Wiesław Krzeminiński, and Jakub Prokop

New archaeopteridan insects from the Carboniferous of Poland: Insights into tangled taxonomy

787–796

Guang-Ying Du, Jin Peng, De-Zhi Wang, Qiu-Jun Wang, Yi-Fan Wang, and Hui ZhangMorphology and developmental traits of the trilobite *Changaspis elongata* from the Cambrian Series 2 of Guizhou, South China

797–813

René Hoffmann, Aleksandr Mironenko, and Helmut Keupp

Conellae, enigmatic structures on cephalopod shells—shapes, distribution, and formation

815–830

Markus Wilmsen and Emad NagmPalaeobiology and evolutionary context of *Angulithes mermeti*, a streamlined early Late Cretaceous shallow-water nautiloid

831–849

Jerzy Fedorowski, E. Wayne Bamber, and Barry C. Richards

Bashkirian rugose corals from the Carboniferous Mattson Formation in the Liard Basin, northwest Canada—stratigraphic and

paleobiogeographic implications 851–870

Magdalena Łukowiak, Andrzej Pisera, and Tetiana Stefanska

Uncovering the hidden diversity of Paleogene sponge fauna of the East European Platform through reassessment of the record

of isolated spicules 871–895

Juraj Hrabovský, Daniela Basso, and Giovanni ColettiThe first identification of fossil *Mesophyllum* in accordance to the modern taxonomic concepts in coralline algae

897–909

Brief report**Masaya Iijima, Takehisa Tsubamoto, Khishigjav Tsogtbaatar, Tsogtbaatar Chinzorig, and Soyol Baasankhuu**

Discovery of a crocodyliform tooth from the upper Eocene Ergilin Dzo Formation, Mongolia

775–778

In memoriam**Magdalena Borsuk-Bialynicka, Gwidon Jakubowski, and Jerzy Lefeld**: Teresa Maryńska (1937–2019)

756

Contents of Volume 64

910–912