



Contents of Volume 67

Acta Palaeontologica Polonica 67 (4): 998–1000, 2022

Issue 1 (published March 2022)

Boots and burlap: papers in honor of Richard L. Cifelli

Preface by Brian M. Davis, Brooke K. Haiar, and Mathew J. Wedel	3–4
Debra L. Hanneman, Donald Lofgren, Stephen T. Hasiotis, and William C. McIntosh	
Priabonian, late Eocene chronostratigraphy, depositional environment, and paleosol-trace fossil associations, Pipestone Springs, southwest Montana, USA	5–20
Stephen R. Westrop and Alyce A. Dengler	
A new Cambrian catillicephalid trilobite from the Shallow Bay Formation of western Newfoundland, Canada	27–33
James D. Gardner	
A unique dentary suggests a third genus of batrachosauroid salamander existed during the latest Cretaceous in the western USA ..	35–50
Aubrey Jane Roberts, Victoria Sjøholt Engelschion, and Jørn Harald Hurum	
First three-dimensional skull of the Middle Triassic mixosaurid ichthyosaur <i>Phalarodon fraasi</i> from Svalbard, Norway	51–62
Kevin Padian	
Why tyrannosaurid forelimbs were so short: An integrative hypothesis	63–76
Brian M. Davis, Kai R.K. Jäger, Guillermo W. Rougier, Kelli Trujillo, and Kevin Chamberlain	
A morganucodontan mammaliaform from the Upper Jurassic Morrison Formation, Utah, USA	77–93
Zhe-Xi Luo, Bhart-Anjan S. Bhullar, Alfred W. Crompton, April I. Neander, and Timothy B. Rowe	
Reexamination of the mandibular and dental morphology of the Early Jurassic mammaliaform <i>Hadrocodium wui</i>	95–113
Thomas H. Rich, David W. Krause, Peter Trusler, Matt A. White, Lesley Kool, Alistair R. Evans, Steven Morton, and Patricia Vickers-Rich	
Second specimen of <i>Corriebaatar marywaltersae</i> from the Lower Cretaceous of Australia confirms its multituberculate affinities	115–134
Fangyuan Mao, Cunyu Liu, and Jin Meng	
New material of the trechnotherian mammal <i>Lactodens</i> from the Early Cretaceous Jehol Biota: Comparison with <i>Origolestes</i> and implications for mammal evolution	135–153
Thomas Martin, Alexander O. Averianov, Julia A. Schultz, Rico Schellhorn, and Achim H. Schwermann	
First spalacotheriid and dryolestid mammals from the Cretaceous of Germany	155–175
Tony Harper, Caleb F. Adkins, and Guillermo W. Rougier	
Reconstructed masticatory biomechanics of <i>Pelagothereium tropicalis</i> , a non-therian mammal from the Paleocene of Argentina	177–201
John R. Wible	
Petrosal and cranial vascular system of the early Eocene palaeoryctid mammal <i>Eoryctes melanus</i> from northwestern Wyoming, USA	203–220
Joseph A. Frederickson, Joshua E. Cohen, Michael H. Engel, Tyler C. Hunt, Greg A. Wilbert, Olga S. Castañeda, and Nicholas J. Czaplewski	
The paleoecology of the Late Miocene mammals from the Optima Local Fauna of Oklahoma, USA	221–238
Kent S. Smith, Nicholas J. Czaplewski, and Margery C. Coombs	
Ungulates of the middle Miocene Monarch Mill Formation, Churchill County, Nevada, USA	239–256
Nicholas J. Czaplewski and Charles G. Baker	
Carnassiform notches improve the functional efficiency of bat molar shearing crests	257–282
Brief report	
Brooke Haiar	
Examination of nontraditional materials for microvertebrate fossil screenwashing	21–25

Issue 2 (published June 2022)

Editors' choice

Marie Boiroit, Tom Challands, and Richard Cloutier

Paedomorphosis and neurocranial ossification in two Devonian lungfishes	283–295
Hilary F. Ketchum and Roger B.J. Benson	
A new pliosaurid from the Oxford Clay Formation of Oxfordshire, UK	297–315

Articles

Qing-Qin Tang, Ya-Juan Zheng, Song Qin, Yin-Chu Wang, Xiao-Guang Yang, Xing Wang, Jie Sun, Kentaro Uesugi, Tsuyoshi Komiya, and Jian Han	
New materials of multicellular algae from the earliest Cambrian Kuanchuanpu biota in South China	317–327
Laura Vallejos Leiz, Alexandra Crisafulli, and Silvia Gnaedinger	
New records of Late Triassic wood from Argentina and their biostratigraphic, paleoclimatic, and paleoecological implications	329–340
Artem Kouchinsky, Ruaridh Alexander, Stefan Bengtson, Fred Bowyer, Sébastien Clausen, Lars E. Holmer, Kirill A. Kolesnikov, Igor V. Korovnikov, Vladimir Pavlov, Christian B. Skovsted, Galina Ushatinskaya, Rachel Wood, and Andrey Y. Zhuravlev	
Early–middle Cambrian stratigraphy and faunas from northern Siberia	341–464
Xiaoyan Sun and Jinhui Cheng	
Sexually dimorphic ornamentation in modern spinicaudatans and the taxonomic implications for fossil clam shrimps	475–492
Jacob D. Gardner and Mark V.H. Wilson	
The most complete amiid fish from the Coal Creek Member of the Eocene Kishenehn Formation in northwestern Montana	493–508
Pablo Núñez Demarco, Jorge Ferigolo, and Graciela Piñeiro	
Isometry in mesosaurs: Implications for growth patterns in early amniotes	509–542
Florencia S. Filippini, Fernando Abdala, and Guillermo H. Cassini	
Body mass estimation in Triassic cynodonts from Argentina based on limb variables	543–557

Discussion

Jennifer E. Bauer, Sarah L. Sheffield, Johnny A. Waters, and Colin D. Sumrall	
Echinoderm model systems, homology, and phylogenetic inference: Comment and reply to Paul (2021)	465–468
Christopher R.C. Paul	
Reply to Bauer et al. (2022)	469–473

Issue 3 (published September 2022)**Editors' choice**

Chase D. Brownstein	
Unappreciated Cenozoic ecomorphological diversification of stem gars revealed by a new large species	559–568
Caroline J. Buttler, Lesley Cherns, and Lucy M.E. McCobb	
Trepostome bryozoans encrusting Silurian gastropods: A taphonomic window and its implications for biodiversity	569–577

Articles

Nickolas A. Brand, Andrew B. Heckert, Israel Sanchez, John R. Foster, Rebecca K. Hunt-Foster, and Jaelyn J. Eberle	
New Late Cretaceous microvertebrate assemblage from the Campanian–Maastrichtian Williams Fork Formation, northwestern Colorado, USA, and its paleoenvironmental implications	579–600
Chan-Gyu Yun, Galadriel Freeman Peters, and Philip John Currie	
Allometric growth in the frontals of the Mongolian theropod dinosaur <i>Tarbosaurus bataar</i>	601–615
Jorge A. Herrera-Flores, Thomas L. Stubbs, and Francisco Sour-Tovar	
Redescription of the type specimens for the Late Jurassic rhynchocephalian <i>Opisthias rarus</i> and a new specimen of <i>Theretarius antiquus</i> from Quarry 9, Morrison Formation, Wyoming, USA	617–630
André Nel and Corentin Jouault	
The odonatan insects from the Paleocene of Menat, central France	631–648
Larisa A. Doguzhaeva, Herbert Summesberger, Franz Brandstaetter, Daniela Gruber, and Andrea Tintori	
Triassic coleoid beaks and other structures from the Calcareous Alps	655–666
Merle Greif, James H. Nebelsick, and Christian Klug	
Extreme abundance of ammonoids in mass accumulations from the Late Devonian of the Moroccan Anti-Atlas	667–684
Gaia Crippa and Stefano Masini	
Photography in the ultraviolet and visible violet spectra: Unravelling methods and applications in palaeontology	685–702
Frida Hybertsen, James L. Goedert, and Steffen Kiel	
A new genus of chemosymbiotic vesicomyid bivalves from the Oligocene of western North America	703–709
Jiayuan Huang, Kun Liang, Yue Wang, Stephen Kershaw, Juwan Jeon, Yue Li, and Wenkun Qie	
Stromatoporoids from a Middle Devonian reef in South China and their palaeoecological implication	711–736
Grzegorz Worobiec, Elżbieta Worobiec, Przemysław Gedl, Jacek R. Kasiński, Danuta Peryt, and Marek Widera	
Terrestrial-aquatic wood-inhabiting ascomycete <i>Potamomyces</i> from the Miocene of Poland	737–744

Ünal Akkemik, Raif Kandemir, Marc Philippe, Yildirim Güngör, and Fatih Kör	
Palaeobiogeographical implications of the first fossil wood flora from the Jurassic of Turkey.....	745–766
Jaroslav Šamánek, Lothar H. Vallon, Radek Mikuláš, and Michal Vachek	
A glimpse into ancient food storage: Sequestrichnia and associated nucleocave <i>Chondrites</i> from Eocene deep-sea deposits.....	767–779
Brief reports	
Honggang Zhang, Dongxiang Yu, Yuhui Feng, Rui Pei, and Chang-Fu Zhou	
A Lujiatun-like dinosaurian assemblage from the Jehol Biota of Ningcheng, Inner Mongolia, Northeast China.....	617–621
Zhi-Teng Chen and Hong-Ling Liu	
A new needle stonefly with parasitic mites from the Eocene Baltic amber	649–654

Issue 4 (published December 2022)

Editors' choice

Enrico Borghi and Vittorio Garilli	
Climate-driven diversity changes of Mediterranean echinoids over the last 6 Ma.....	781–805
Thomas Lechner and Madelaine Böhme	
The beaver <i>Steneofiber depereti</i> from the lower Upper Miocene hominid locality Hammerschmiede and remarks on its ecology	807–826

Articles

Jakub Słowiński, Olev Vinn, Manfred Jäger, and Michał Zatoń	
Middle and Late Jurassic tube-dwelling polychaetes from the Polish Basin: diversity, palaeoecology and comparisons with other assemblages	827–864
Alessandro P. Carniti, Giovanna Della Porta, Vanessa J. Banks, Michael H. Stephenson, and Lucia Angiolini	
Brachiopod fauna from uppermost Viséan (Mississippian) mud mounds in Derbyshire, UK	865–915
Steffen Kiel, Allan Gil S. Fernando, Clarence Y. Magtoto, and Tomoki Kase	
Mollusks from Miocene hydrocarbon-seep deposits in the Ilocos-Central Luzon Basin, Luzon Island, Philippines	917–947
Daisuke Aiba	
Dimorphism in tetragonitid ammonoid <i>Tetragonites minimus</i> from the Upper Cretaceous in Hokkaido, Northern Japan	949–961
De-Guang Jiao and Kun-Sheng Du	
A new euarthropod from the Cambrian Stage 4 Guanshan Biota of South China	969–974
Kai R.K. Jäger, Pamela G. Gill, Thomas Martin, and Ian J. Corfe	
Molar morphology and occlusion of the Early Jurassic mammaliaform <i>Erythrotherium parringtoni</i>	975–982
Santiago Hernández Del Pino, Federico D. Seoane, and Esperanza Cerdeño	
New craniodontal material of the typhotherian notoungulates from the upper Oligocene of Mendoza, central-western Argentina and their taxonomical importance	983–997
Discussion	
Petra Lukeneder and Alexander Lukeneder	
Comment on ‘Triassic coleoid beaks and other structures from the Calcareous Alps revisited’ by Doguzhaeva et al. (2022).....	963–465
Larisa A. Doguzhaeva	
Some critical notes on ‘Comment on ‘Triassic coleoid beaks and other structures from the Calcareous Alps revisited’ by Doguzhaeva et al. (2022)’ by Lukeneder and Lukeneder (2022)’	966–968
Contents of Volume 67	998–1000