

TRIASSIC LITERATURE – 2015

Geoffrey Warrington

Honorary Visiting Fellow, Department of Geology, University of Leicester, LE1 7RG, UK

Email: gwarrington@btinternet.com

This compilation is based on the contents of over 500 serial titles and other publications. It is a continuation of the New Triassic Literature contributions that appeared in Albertiana up to April 2016 (43: 33–65), and includes items dated 2015, together with some pre-2015 titles that were not included in earlier compilations.

- Abbo, A., Avigad, D., Gerdes, A. & Güngör, T. 2015. Cadomian basement and Paleozoic to Triassic siliciclastics of the Taurides (Karacahisar dome, south-central Turkey): paleogeographic constraints from U-Pb-Hf in zircons. *Lithos*, 227: 122–139.
- Adorf, N. 2015. Von der Grabung ins Museum. *Palaeodiversity*, Special Issue: 399–406.
- Agnini, C., Erba, E., Monechi, S. & Raffi, I. 2015. The role of calcareous nannofossils during the last ~220 million years of Earth history. *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 21: 7.
- Ahmad, S., Waqas, M., Khan, S.S., Swati, M.A.F., Jan, I.U., Ali, F., Yaqoob, M., Sadiq, A., Khan, S. & Ibad-ur-Rehman. 2015. Facies analysis and depositional modelling of the Upper Permian Chhidru Formation, Salt Range, Upper Indus Basin, Pakistan. *Journal of Himalayan Earth Sciences*, 48(1): 64–80.
- Alekseev, A.S. 2015. The International Stratigraphic Chart: state of the art. *Russian Geology and Geophysics*, 56(4): 524–531.
- Algeo, T.J., Zhong-Qiang Chen & Bottjer, D.J. 2015. Editorial: Global review of the Permian-Triassic mass extinction and subsequent recovery: Part II. *Earth-Science Reviews*, 149: 1–4.
- Al-Juboury, A.I., Al-Haj, M.A. & Jabbar, W.J. 2015. Facies analysis and depositional analysis of the Geli Khana Formation (Middle Triassic), Northern Iraq. *Arabian Journal of Geosciences*, 8(7): 4765–4777.
- Al-Juboury, A.I. & McCann, T. 2015. Petrological and geochemical interpretation of Triassic-Jurassic boundary sections from northern Iraq. *Geological Journal*, 50(2): 157–172.
- Al-Kahtany, K. & Al Gahtani, F. 2015. Distribution of diagenetic alterations in fluvial channel and floodplain deposits in the Triassic Narrabeen Group, southern Sydney Basin, Australia. *Journal of the Geological Society of India*, 85(5): 591–603.
- Allard, H., Carpenter, S.C., Duffin, C.J. & Benton, M.J. 2015. Microvertebrates from the classic Rhaetian bone beds of Manor Farm Quarry, near Aust (Bristol, UK). *Proceedings of the Geologists' Association*, 126(6): 762–776.
- Ambrose, K. & Kingston, G. 2015. Dorket Head Brickworks. *Mercian Geologist*, 18(4): 264–265.
- Ambrose, K. & Wakefield, O. 2015. Permo-Triassic rocks of Nottingham. *Mercian Geologist*, 18(4): 260–263.
- Angiolini, L., Zanchi, A., Zanchetta, S., Nicora, A., Vuolo, I., Berra, F., Henderson, C., Malaspina, N., Rettori, R., Vachard, D. & Vezzoli, G. 2015. From rift to drift in South Pamir (Tajikistan): Permian evolution of a Cimmerian terrane. *Journal of Asian Earth Sciences*, 102: 140–169.
- Apaldetti, C. 2015. Evolution of early Sauropodomorpha: phylogenetic and biogeographic patterns in southern Pangea. *The Palaeontological Association Newsletter*, 90: 85–88.
- Aref'ev, M.P., Kuleshov, V.N. & Pokrovskii, V.G. 2015. Carbon and oxygen isotope composition in upper Permian-lower Triassic terrestrial carbonates of the east European platform: a global ecological crisis against the background of an unstable climate. *Doklady Earth Sciences*, 460(1): 11–15.
- Arvizu, H.E. & Iriondo, A. 2015. Time control and geology of the Permo-Triassic magmatism at Sierra Los Tanques, NW Sonora, Mexico: evidence for the beginning of the Cordilleran arc magmatism in SW Laurentia. *Boletín de la Sociedad Geológica Mexicana*, 67(3): 545–586.
- Asatryan, G., Danelian, T., Sahakyan, L., Seyler, M. & Galoyan, G. 2015. Radiolarian biostratigraphy for the sedimentary cover of ophiolites in Armenia. *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 21: 17.
- Babaahmadi, A., Rosenbaum, G. & Esterle, J. 2015. Alternating episodes of extension and contraction during the Triassic: evidence from Mesozoic sedimentary basins in eastern Australia. *Australian Journal of Earth Sciences*, 62(5): 563–579.
- BadriKolalo, N., Hamidi, B., Vaziri, S.H. & Aghanabati, S.A. 2015. Biostratigraphic correlation of Elikah Formation in Zal section (northwestern Iran) with Ruteh and type sections in

- Alborz Mountains based on conodonts. *Iranian Journal of Earth Science*, 7(1): 78–88.
- Bagherpour, B., Bucher, H., Brosse, M., Baud, A., Frisk, Å.M. & Guodun, K. 2015. Onset, development and cessation of the Permian-Triassic boundary microbialite in the Nanpanjiang Basin (South China). *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 21: 23.
- Bai Dao-yuan, Jiang Wen, Zhong Xiang & Xiong Xiong. 2015. Mesozoic-Cenozoic structural deformation characteristics of YuanlingMayang basin and regional tectonic setting. *Geology in China*, 42(6): 1851–1875.
- Bailey, R.J. 2015. The power-law attributes of stratigraphic layering and their possible significance. *Geological Society, London, Special Publications*, 404: 89–104.
- Balini, M. 2015. The importance of ammonoids for a modern integrated Triassic chronostratigraphy. *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 21: 27.
- Balini, M., Di Stefano, P., Tripodo, A., Mazza, M., Levera, M., Muttoni, G., Nicora, A., Rigo, M. & Krystyn, L. 2015. High resolution integrated biomagnetostratigraphy of the Carnian/Norian boundary at Pizzo Mondello and Pizzo Lupo (western Sicily, Italy). *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 21: 28.
- Balini, M., Jenks, J.F., Martin, R., McRoberts, C.A., Orchard, M.J. & Silberling, N.J. 2015. The Carnian/Norian boundary succession at Berlin-Ichthyosaur State Park (Upper Triassic, central Nevada, USA). *Paläontologische Zeitschrift*, 89(3): 399–433.
- Baozhu Deng, Yongbiao Wang, Woods, A., Guoshan Li & Wei Liao. 2015. Lower Triassic anachronistic facies capping the Qinghai-Tibet Plateau seamount: implications for the extension of extraordinary oceanic conditions deep into the interior Tethys Ocean. *Global and Planetary Change*, 132: 31–38.
- Barboni, R. & Dutra, T.L. 2015. First record of Ginkgo-related fertile organs (*Hamshawvia*, *Stachyoptis*) and leaves (*Baiera*, *Sphenobaiera*) in the Triassic of Brazil, Santa Maria Formation. *Journal of South American Earth Sciences*, 63: 417–435.
- Barrett, P.M., Nesbitt, S.J. & Peecook, B.R. 2015. A large-bodied silesaurid from the Lifua Member of the Manda beds (Middle Triassic) of Tanzania and its implications for body-size evolution of Dinosauromorpha. *Gondwana Research*, 27(3): 925–931.
- Barry, P.H., Hilton, D.R., Day, J.M.D., Pernet-Fisher, J.F., Howarth, G.H., Magna, T., Agashev, A.M., Pokhilenko, N.P., Pokhilenko, L.N. & Taylor, L.A. 2015. Helium isotopic evidence for modification of the cratonic lithosphere during the Permo-Triassic Siberian flood basalt event. *Lithos*, 216–217: 73–80.
- Barzgar, E., Abdollahie Fard, I., Hamidzadeh Moghadam, R., Abdollahie Khalili, E. & Garavand, A. 2015. Deformation, stratigraphy, structures and shortening of the Zagros fold-thrust belt in southwest Iran. Analysis by restoration. *Acta Geologica Sinica (English Edition)*, 89(1): 105–120.
- Bates, K., Maidment, S.C.R., Schachner, E.R. & Barrett, P.M. 2015. Comments and corrections on 3D modelling studies of locomotor muscle moment arms in archosaurs. *PeerJ* 3: e1272 <https://doi.org/10.7717/peerj.1272>.
- Baud, A., Goudemand, N., Nützel, A., Brosse, M., Frisk, Å.M., Meier, M. & Bucher, H. 2015. Carbonate factory in the aftermath of the end-Permian mass extinction: Griesbachian crinoidal limestones from Oman. *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 21: 31.
- Bauer, J.F., Meier, S. & Philipp, S.L. 2015. Architecture, fracture system, mechanical properties and permeability structure of a fault zone in Lower Triassic sandstone, Upper Rhine Graben. *Tectonophysics*, 647–648: 132–145.
- Beardmore, S. 2015. Neglected footprints step towards new life. *Earth Heritage*, 44: 25–26.
- Beardmore, S. 2015. Behind the scenes at the museum: A history of Elgin Museum, UK, and its fossil collection. *The Palaeontological Association Newsletter*, 89: 46–50.
- Beardmore, S. 2015. Moray geology: past, present, future at Elgin Museum. *The Palaeontological Association Newsletter*, 89: 93–95.
- Becker, A. 2015. Ambiguities in conchostracean biostratigraphy: a case study of the Permian-Triassic boundary. *Annales Societatis Geologorum Poloniae*, 85(4): 697–701.
- Bega, Z. 2015. Hydrocarbon exploration potential of Montenegro – a brief review. *Journal of Petroleum Geology*, 38(3): 317–330.
- Benavente, C., Mancuso, A., Cabaleri, N. & Gierlowski-Kordesch, E. 2015. Comparison of lacustrine successions and their palaeohydrological implications in two sub-basins of the Triassic Cuyana rift, Argentina. *Sedimentology*, 62(7): 1771–1813.
- Benson, R.B.J., Evans, M. & Taylor, M.A. 2015. The anatomy of *Stratesaurus* (Reptilia, Plesiosauria) from the lowermost Jurassic of Somerset, United Kingdom. *Journal of Vertebrate Paleontology*, 35(4): e933739 (26 pp.). DOI: 10.1080/02724634.2014.933739.
- Benton, M.J. 2015. Exploring macroevolution using modern and fossil data. *Proceedings of the Royal Society B*, 282(1810): 20150569. DOI: 10.1098/rspb.2015.0569.
- Benton, M.J., Donoghue, P.C.J., Asher, R.J., Friedman, M., Near, T.J. & Vinther, J. 2015. Constraints on the timescale of animal evolutionary history. *Palaeontologia Electronica*, 18.1. 1FC: 1–106.
- Bercovici, A., Ying Cui, Forel, M.-B., Jianxin Yu & Vajda, V. 2015. Terrestrial paleoenvironment characterization across the Permian-Triassic boundary in South China. *Journal of Asian Earth Sciences*, 98: 225–246.
- Bernardi, M., Klein, H., Pettit, F.M. & Ezcurra, M.D. 2015. The origin and early radiation of archosauriforms: integrating the skeletal and footprint record. *PLoS ONE*, 10(6): e0128449. doi:10.1371/journal.pone.0128449.
- Bigi, S., Marchese, M., Meda, M., Nardon, S. & Franceschi, M. 2015. Discrete fracture network of the Latemar carbonate platform. *Italian Journal of Geoscience*, 134(3): 474–494.
- Bin Fu, Bröcker, M., Ireland, T., Holden, P. & Kinsley, L.P.J. 2015. Zircon U-Pb, O, and Hf isotopic constraints on Mesozoic magmatism in the Cyclades, Aegean Sea, Greece. *International Journal of Earth Sciences*, 104(1): 75–87.

- Bird, M.I., Wynn, J.G., Saiz, G., Wurster, C.M. & McBeath, A. 2015. The pyrogenic carbon cycle. Annual Review of Earth and Planetary Sciences, 43: 273–298.
- Bird, P.C., Cartwright, J.A. & Davies, T.L. 2015. Basement reactivation in the development of rift basins: an example of reactivated Caledonide structures in the West Orkney Basin. Journal of the Geological Society, London, 172(1): 77–85.
- Birks, D., Coutts, C.A., Younger, P.L. & Parkin, G. 2015. Development of a groundwater heating and cooling scheme in a Permo-Triassic sandstone aquifer in South-West England and approach to managing risks. Geoscience in South-West England, 13(4): 428–436.
- Bittencourt, J.S., Arcucci, A.B., Marsicano, C.A. & Langer, M.C. 2015. Osteology of the Middle Triassic archosaur *Lewisuchus admixtus* Romer (Chañares Formation, Argentina), its inclusivity, and relationships amongst early dinosauromorphs. Journal of Systematic Palaeontology, 13(3): 189–219.
- Black, B.A., Weiss, B.P., Elkins-Tanton, L.T., Veselovskiy, R.V. & Latyshev, A. 2015. Siberian traps volcaniclastic rocks and the role of magma-water interactions. Geological Society of America Bulletin, 127(9–10): 1437–1452.
- Blendinger, W., Lohmeier, A., Bertini, A., Meißner, E. & Sattler, C.-D. 2015. A new model for the formation of dolomite in the Triassic Dolomites, northern Italy. Journal of Petroleum Geology, 38(1): 5–36.
- Bo Jingfang, Wang Xunlian, Gao Jinhan, Wang Genhou & Luo Shenglong. 2015. Revision of the genus *Conophyllum* d'Orbigny 1849 (Anthozoa, Scleractinia, Triassic) and *Conophyllum* from the Renacuo area of Gérzê, Tibet. Acta Geologica Sinica (English Edition), 89(5): 1664–1672.
- Bo Tao, Wei Qirong, Ding Pengfei, Wang Cheng, Liu Xiaonian, Zhang Xiaoqiang, Sun Zuo & Wang Jingyuan. 2015. LA-ICP-MS zircon U-Pb ages and petrogenesis of Rindu intrusion near Namling, middle Gangdise magmatic belt. Geological Bulletin of China, 34(12): 2254–2265.
- Bodnar, J., Ruiz, D.P., Artabe, A.E., Morel, E.M. & Ganuza, D. 2015. Voltiales and Pinaceae (= Coniferales) from Cortaderita Formation (Middle Triassic), Argentina, and their implication in the reconstruction of Triassic conifers. Revista Brasileira de Paleontologia, 18(1): 141–160.
- Bondarenko, L.G., Zakharov, Yu.D., Guravskaya, G.I. & Safronov, P.P. 2015. Lower Triassic zonation of southern Primorye. Article 2. First conodont findings in *Churkites* cf. *syaskoi* beds at the western coast of the Ussuri gulf. Russian Journal of Pacific Geology, 9(3): 203–214.
- Bordy, E.M. & Eriksson, P. 2015. Lithostratigraphy of the Elliot Formation (Karoo Supergroup), South Africa. South African Journal of Geology, 118(3): 311–316.
- Borrrell-Abadia, V., López-Gómez, J., De La Hora, R., Galán-Abellán, B., Barrenechea, J.F., Arche, A., Ronchi, A., Gretter, N. & Marzo, M. 2015. Climate changes during the Early-Middle Triassic transition in the E. Iberian plate and their palaeogeographic significance in the western Tethys continental domain. Palaeogeography, Palaeoclimatology, Palaeoecology, 440: 671–689.
- Boyd, C.A. 2015. The systematic relationships and biogeographic history of ornithischian dinosaurs. PeerJ 3: e1523 <https://doi.org/10.7717/peerj.1523>.
- Böttcher, R. 2015. Fische des Lettenkeupers. Palaeodiversity, Special Issue: 141–202.
- Brachaniec, T., Niedźwiedzki, R., Surmiak, D., Krzykowski, T., Szopa, K., Gorzelak, P. & Salamon, M.A. 2015. Coprolites of marine vertebrate predators from the Lower Triassic of southern Poland. Palaeogeography, Palaeoclimatology, Palaeoecology, 435: 118–126.
- Bragin, N. 2015. Late Norian (Triassic) radiolaria from the Koteln'yi Island (New Siberian Islands, Arctic, Russia). Revue de micropaléontologie, 58(2): 121–139.
- Brandes, C., Piepjohn, K., Franke, D., Sobolev, N. & Gaedike, C. 2015. The Mesozoic-Cenozoic tectonic evolution of the New Siberian Islands, NE Russia. Geological Magazine, 152(3): 480–491.
- Brayard, A., Meier, M., Escarguel, G., Fara, E., Nützel, A., Olivier, N., Bylund, K.G., Jenks, J.F., Stephen, D.A., Hautmann, M., Vennin, E. & Bucher, H. 2015. Early Triassic Gulliver gastropods: spatio-temporal distribution and significance for biotic recovery after the end-Permian mass extinction. Earth-Science Reviews, 146: 31–64.
- Brink, K.S., Reisz, R.R., LeBlanc, A.R.H., Chang, R.S., Lee, Y.C., Chiang, C.C., Huang, T. & Evans, D.C. 2015. Developmental and evolutionary novelty in the serrated teeth of theropod dinosaurs. Nature Scientific Reports, 5(12338), doi:10.1038/srep12338.
- Brockelhurst, N., Ruta, M., Müller, J. & Fröbisch, J. 2015. Early extinction rates as a trigger for diversification rate shifts: early amniotes as a case study. Nature Scientific Reports, 5(17104), doi:10.1038/srep17104.
- Brom, K.R., Brachaniec, T. & Salamon, M.A. 2015. Troglomorphism in the middle Triassic crinoids from Poland. The Science of Nature, 102(9–10), article 60: DOI 10:1007/s00114-015-1310-7.
- Brosse, M., Bucher, H., Bagherpour, B., Baud, A., Frisk, Å.M., Kuang Guodun & Gouemand, N. 2015. Conodonts from the Early Triassic microbialite of Guangxi (South China): implications for the definition of the base of the Triassic System. Palaeontology, 58(3): 563–584.
- Brusatte, S.L., Butler, R.J., Mateus, O. & Steyer, S. 2015. A new species of *Metoposaurus* from the Late Triassic of Portugal and biogeography of metoposaurid temnospondyls. Journal of Vertebrate Paleontology, 35(3): e912988 (23 pp.). DOI: 10.1080/02724634.2014.912988.
- Budai, T., Haas, J. & Piros, O. 2015. New stratigraphic data on the Triassic basement of the Zsámbék Basin – tectonic inferences. Földtani Közlöny, 145(3): 247–255.
- Burberry, C.M. 2015. The effect of basement fault reactivation on Triassic – Recent geology of Kurdistan, north Iraq. Journal of Petroleum Geology, 38(1): 37–58.
- Burton-Johnson, A. & Riley, T.R. 2015. Autochthonous v. accreted terrane development of continental margins: a revised in situ tectonic history of the Antarctic Peninsula. Journal of the Geological Society, London, 172(6): 822–835.
- Butler, C. 2015. New Welsh dinosaur is chip off an old block. Earth Heritage, 44: 7–8.
- Butler, R.J., Ezcurra, M.D., Montefeltro, F.C., Samathi, A.

- & Sobral, G. 2015. A new species of basal rhynchosaur (Diapsida: Archosauromorphia) from the early Middle Triassic of South Africa, and the early evolution of Rhynchosauria. *Zoological Journal of the Linnean Society*, 174(3): 571–588.
- Çakir, Ü. & Üner, P. 2015. The Ankara Mélange: an indicator of Tethyan evolution of Anatolia. *Geologica Carpathica*, 67(4): 403–414.
- Cantrell, A.K. & Lucas, S.G. 2015. Type specimens of fossil vertebrates in the New Mexico Museum of Natural History and Science paleontology collection. *New Mexico Museum of Natural History & Science Bulletin*, 68: 429–438.
- Cao, W., Paterson, S., Memeti, V., Mundil, R., Anderson, J.L. & Schmidt, K. 2015. Tracking paleodeformation fields in the Mesozoic central Sierra Nevada arc: implications for the intra-arc cyclic deformation and arc tempos. *Lithosphere*, 7(3): 296–320.
- Cartanyà, J., Fortuny, J., Bolet, A. & Mutter, R.J. 2015. *Colobodus giganteus* (Beltan, 1972) comb. nov. from the Upper Muschelkalk facies of Catalonia (NE Iberian Peninsula). *Neues Jahrbuch für Geologie und Paläontologie – Abhandlungen*, 278(3): 323–333.
- Casacci, M., Bertinelli, A., Algeo, T.J. & Rigo, M. 2015. Paleoceanographic changes in the Lagonegro Basin (southern Italy) during the Late Triassic linked to oceanic rifting in the western Tethyan region. *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 21: 50.
- Casacci, M., Bertinelli, A., Algeo, T.J. & Rigo, M. 2015. The Upper Triassic Monte Volturino section (Lagonegro Basin, Southern Italy): evidence for felsic volcanic activity in the western Tethyan realm. *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 21: 51.
- Castillo, P., Lacassie, J.P., Augustsson, C. & Hervé, F. 2015. Petrography and geochemistry of the Carboniferous-Triassic Trinity Peninsula Group, West Antarctica: implications for provenance and tectonic setting. *Geological Magazine*, 152(4): 575–588.
- Castro de Machuca, B., López, M.G., Diego, M., Conte-Grand, A. & Pontoriero, S. 2015. La Aguadita Trachyte: a new exponent of Triassic alkaline magmatism in Sierra de Valle Fértil, western sierras Pampeanas. *Revista de la Asociación Geológica Argentina*, 72(4): 551–562.
- Cazzini, F., Dal Zotto, O., Fantoni, R., Ghelmi, M., Ronchi, P. & Scotti, P. 2015. Oil and gas in the Adriatic Foreland, Italy. *Journal of Petroleum Geology*, 38(3): 255–279.
- Chang-Sik Cheong, Namhoon Kim, Hui Je Jo, Moonsup Cho, Sung Hi Choi, Hongying Zhou & Jian-zhen Geng. 2015. Lithospheric mantle signatures as revealed by zircon Hf isotopes of Late Triassic post-collisional plutons from the central Korean peninsula, and their tectonic implications. *Terra Nova*, 27(2): 97–105.
- Chang Whan Oh, Imayama, T., Seung Yeol Lee, Sang-Bong Yi, Keewook Yu & Byung Choon Lee. 2015. Permo-Triassic and Paleoproterozoic metamorphism related to continental collision in Yangpyeong, South Korea. *Lithos*, 216–217: 264–284.
- Changming Wang, Jun Deng, Santosh, M., Yongjun Lu, McCuaig, T.C., Carranza, E.J.M. & Qingfei Wang. 2015. Age and origin of the Bulangshan and Mengsong granitoids and their significance for post-collisional tectonics in the Changning-Menglian Paleo-Tethys Orogen. *Journal of Asian Earth Sciences*, 113(2): 656–676.
- Changqing Zhang, Yue Wu, Lin Hou & Jingwen Mao. 2015. Geodynamic setting of mineralization of Mississippi Valley-type deposits in world-class Sichuan-Yunnan-Guizhou Zn-Pb triangle, southwest China: implications from age-dating studies in the past decade and the Sm-Nd age of Jinshachang deposit. *Journal of Asian Earth Sciences*, 103: 103–114.
- Chao Wang, Shuguang Song, Yaoling Niu & Li Su. 2015. Late Triassic adakitic plutons within the Archean terrane of the North China Craton: melting of ancient lower crust at the onset of the lithospheric destruction. *Lithos*, 212–215: 353–367.
- Chen, J., Tong, J., Song, H., Luo, M. & Huang, Y. 2015. Recovery pattern of brachiopods after the Permian-Triassic crisis in South China. *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 21: 54.
- Chen Wen-bin, Fu Xiu-gen, Tan Fu-wen, Feng Xin-lei & Zeng Sheng-qiang. 2015. Geochemical characteristics of Upper Triassic source rocks from typical sections in Qiangtang Basin, northern Tibet. *Geology in China*, 2015(4): 1151–1160.
- Chen, Y., Kolar-Jurkovšek, T., Jurkovšek, B., Aljinović, D. & Richoz, S. 2015. A unique Early Triassic conodont sequence from the Idrija-Žiri area, Slovenia and its implications for conodont paleoecology. *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 21: 55.
- Chen, Z-Q. 2015. Complete biotic and sedimentary records of the Permian-Triassic transition from the Meishan section, South China: ecologically assessing mass extinction and its aftermath. *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 21: 56.
- Cheng Ji, Chao Zhang, Da-Yong Jiang, Bucher, H., Motani, R. & Tintori, A. 2015. Ammonoid age control on the Early Triassic marine reptiles from Chaohu (South China). *Palaearctica*, 24(3): 277–282.
- Cheng Xin, Zhou Yanan, Guo Qiang, Hou Baoning & Wu Hanning. 2015. Paleomagnetism of Triassic rocks in the western Lhasa terrane, Tibetan Plateau, and its tectonic implications. *Geological Bulletin of China*, 34(2): 306–317.
- Chenin, P., Manatschal, G., Lavier, L.L. & Erratt, D. 2015. Assessing the impact of orogenic inheritance on the architecture, timing and magmatic budget of the North Atlantic rift system: a mapping approach. *Journal of the Geological Society, London*, 172(6): 711–720.
- Chokai Zhang, Xianghui Li, Mattern, F., Guozheng Mao, Qinggao Zeng & Wenli Xu. 2015. Deposystem architectures and lithofacies of a submarine fan-dominated deep sea succession in an orogen: a case study from the Upper Triassic Langjixue Group of southern Tibet. *Journal of Asian Earth Sciences*, 111: 222–243.
- Christ, N., Immenhauser, A., Wood, R.A., Darwich, K. & Niedermayr, A. 2015. Petrography and environmental controls on the formation of Phanerozoic marine carbonate hardgrounds. *Earth-Science Reviews*, 151: 176–226.
- Chunbo Yan, Haishui Jiang, Xulong Lai, Yadong Sun, Bo Yang

- & Wang, L. 2015. The relationship between the “Green-bean Rock” layers and conodont *Chiosella timorensis* and implications for defining the Early-Middle Triassic boundary in the Nanpanjiang Basin, South China. *Journal of Earth Science*, 26(2): 236–245.
- Chunming Xu, Gehenn, J.-M., Daha Zhao, Geyun Xie & Mee-Kee Teng. 2015. The fluvial and lacustrine sedimentary systems and stratigraphic correlation in the Upper Triassic Xujiahe Formation in Sichuan Basin, China. *AAPG Bulletin*, 99(11): 2023–2041.
- Cirilli, S., Buratti, N., Gugliotti, L. & Frix, A. 2015. Palynostratigraphy and palynofacies of the Upper Triassic Streppenosa Formation (SE Sicily, Italy) and inference on the main controlling factors in the organic rich shale deposition. *Review of Palaeobotany and Palynology*, 218: 67–79.
- Citton, P., Nicosia, U. & Sacchi, E. 2015. Updating and reinterpreting the dinosaur track record of Italy. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 439: 117–125.
- Clarkson, M.O., Kasemann, S.A., Wood, R.A., Lenton, T.M., Daines, S.J., Richoz, S., Ohnemueller, F., Meixner, A., Poult, S.W. & Tipper, E.T. 2015. Ocean acidification and the Permo-Triassic mass extinction. *Science*, 348(6231): 229–232.
- Clarkson, M.O., Kasemann, S.A., Wood, R., Richoz, S., Lenton, T.M., Daines, S.J., Ohnemueller, F., Meixner, A., Poult, S.W. & Tipper, E.T. 2015. Ocean acidification at the Permian-Triassic Mass Extinction. Clues from the Arabian Platform. *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 21: 60.
- Cleary, T.J., Moon, B.C., Dunhill, A.M. & Benton, M.J. 2015. The fossil record of ichthyosaurs, completeness metrics and sampling biases. *Palaeontology*, 58(3): 521–536.
- Colombi, C.E., Martínez, R.N., Correa, G., Fernández, E., Santi Malnis, P., Praderio, A., Apaldetti, C., Abelín, D., Alcober, O. & Aguilar-Cameo, A. 2015. First Argentine microfossil bonebed from the Upper Triassic Marayes-El Carrizal Basin, San Juan Province. *Palaios*, 30(10): 743–757.
- Colombi, C.E., Santi Malnis, P., Correa, G.A., Martínez, R.N., Fernández, E., Abelín, D., Praderio, A., Apaldetti, C.G., Alcober, O. & Drovandi, J. 2015. The Balde de Leyes Formation, a new stratigraphic unit from the Triassic Marayes-El Carrizal Basin. *Revista de la Asociación Geológica Argentina*, 72(4): 445–455.
- Cooper, A.F. & Ireland, T.R. 2015. The Pounamu terrane, a new Cretaceous exotic terrane within the Alpine Schist, New Zealand; tectonically emplaced, deformed and metamorphosed during collision of the LIP Hikurangi Plateau and Zealandia. *Gondwana Research*, 27(3): 1255–1269.
- Cooper, B.J., Branagan, D.F., Franklin, B. & Ray, H. 2015. Sydney sandstone: proposed ‘Global Heritage Stone Resource’ from Australia. *Episodes*, 38(2): 124–131.
- Coram, R.A. & Radley, J.D. 2015. Chirotheres footprint sites from the Otter Sandstone Formation (Middle Triassic, late Anisian) of Devon, United Kingdom. *Ichnos*, 22(1): 29–42.
- Corsetti, F.A., Ritterbush, K.A., Bottjer, D.J., Greene, S.E., Ibarra, Y., Yager, J.A., West, A.J., Berelson, W.M., Rosas, S., Becker, T.W., Levine, N.M., Loyd, S.J., Martindale, R.C., Petryshyn, V.A., Carroll, N.R., Petsios, E., Piazza, O., Pietsch, C., Stellmann, J.L., Thompson, J.R., Washington, K.A. & Wilmet, D.T. 2015. Investigating the paleoecological consequences of supercontinent breakup: sponges clean up in the Early Jurassic. *The Sedimentary Record*, 13(2): 4–10.
- Csaszar, G., Gawlick, H.-J. & Wagreich, M. 2015. Correlation of Mesozoic lithostratigraphic units of the East-Alpine Bajavaric and Tirolic units and the north eastern part of the Transdanubian Range. *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 21: 71.
- Da Rosa, A.A.S. 2015. Geological context of the dinosauriform-bearing outcrops from the Triassic of southern Brazil. *Journal of South American Earth Sciences*, 61: 108–119.
- Dal Corso, J., Gianolla, P., Caggiati, M., Preto, N., Francheschi, M. & Roghi, G. 2015. Carbon isotope stratigraphy of the Carnian Pluvial Event (early Late Triassic) in the northwestern Tethys. *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 21: 73.
- Dal Corso, J., Gianolla, P., Newton, R.J., Franceschi, M., Roghi, G., Caggiati, M., Rauczik, B., Budai, T., Haas, J. & Preto, N. 2015. Carbon isotope records reveal synchronicity between carbon cycle perturbation and the “Carnian Pluvial Event” in the Tethys realm (Late Triassic). *Global and Planetary Change*, 127: 79–90.
- Dal Corso, J., Roghi, G., Kustatscher, E., Preto, N., Gianolla, P., Manfrin, S. & Mietto, P. 2015. Ammonoid-calibrated sporomorph assemblages reflect a shift from hygrophytic to xerophytic elements in the late Anisian (Middle Triassic) of the Southern Alps (Italy). *Review of Palaeobotany and Palynology*, 218: 15–27.
- Dalla Vecchia, F.M. & Cau, A. 2015. Re-examination of the purported pterosaur wing metacarpals from the Upper Triassic of England. *Historical Biology*, 27(6): 684–696.
- Dallmann, W.K. & Elvevold, S. 2015. Chapter 7 Bedrock Geology. In: Dallmann, W.K. (ed.) *Geoscience Atlas of Svalbard*. Norsk Polarinstitutt, Report Series No. 148: 133–173.
- Dan Yang, Zengqian Hou, Yue Zhao, Kejun Hou, Zhiming Yang, Shihong Tian & Qiang Fu. 2015. Lithium isotope traces magmatic fluid in a seafloor hydrothermal system. *Nature Scientific Reports*, 5(13812), doi:10.1038/srep13812.
- Daoliang Chu, Jinnan Tong, Haijun Song, Benton, M.J., Bottjer, D.J., Huyue Song & Li Tian. 2015. Early Triassic wrinkle structures on land: stressed environments and oases for life. *Nature Scientific Reports*, 5(10109), doi:10.1038/srep10109.
- Daoliang Chu, Jinnan Tong, Haijun Song, Benton, M.J., Huyue Song, Jianxin Yu, Xin Cheng Qiu, Yunfei Huang & Li Tian. 2015. Lilliput effect in freshwater ostracods during the Permian-Triassic extinction. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 435: 38–52.
- Daoliang Chu, Jinnan Tong, Haijun Song, Benton, M.J., Huyue Song, Jianxin Yu, Xin Cheng Qiu, Yunfei Huang & Li Tian. 2015. Reply to the comment on Chu et al., “Lilliput effect in freshwater ostracods during the Permian-Triassic extinction” [Palaeogeography, Palaeoclimatology, Palaeoecology 435 (2015): 38–52] *Palaeogeography, Palaeoclimatology*,

- Palaeoecology, 440: 863–865.
- Day, M.O., Ramezani, J., Bowring, S.A., Sadler, P.M., Erwin, D.H., Abdala, F. & Rubidge, B.S. 2015. When and how did the terrestrial mid-Permian mass extinction occur? Evidence from the tetrapod record of the Karoo Basin, South Africa. Proceedings of the Royal Society B, 282(1811): 20150834. DOI: 10.1098/rspb.2015.0834.
- Dayu Zhang, Taofa Zhou, Feng Yuan, Wenjiao Xiao, White, N.C., Yufeng Deng, Weiwei Lu & Gang Deng. 2015. Petrogenesis and mineralization potential of a granite porphyry intrusion beneath the Baishan Mo deposit, eastern Tianshan, NW China. Journal of Asian Earth Sciences, 113(1): 254–265.
- D'Elia, L., Bilmes, A., Franzese, J.R., Viega, G.D., Hernández, M. & Muravchik, M. 2015. Early evolution of the southern margin of the Neuquén Basin, Argentina: tectono-stratigraphic implications for rift evolution and exploration of hydrocarbon plays. Journal of South American Earth Sciences, 64(1): 42–57.
- De Jong, K., Han, S. & Ruffet, G. 2015. Fast cooling of a Late Triassic metamorphic and magmatic pulse: implications for the tectonic evolution of the Korean collision belt. Tectonophysics, 662: 271–290.
- De Miguel Chaves, C., Pérez-García, A., Cobos, A., Royo-Torres, R., Ortega, F. & Alcalá, L. 2015. A diverse Late Triassic tetrapod fauna from Manzanera (Teruel, Spain). Geobios, 48(6): 479–490.
- Debuyschere, B., Gheerbrant, E. & Allain, R. 2015. Earliest known European mammals: a review of the Morganucodonta from Saint-Nicolas-de-Port (Upper Triassic, France). Journal of Systematic Palaeontology, 13(10), 825–855.
- Delong Ma, Dengfa He, Di Li, Jieyun Tang & Zheng Liu. 2015. Kinematics of syn-tectonic unconformities and implications for the tectonic evolution of the Hala'alat Mountains at the northwestern margin of the Junggar Basin, Central Asian Orogenic Belt. Geoscience Frontiers, 6(2): 247–264.
- Deng, S., Lu, Y., Zhao, Y., Li, X. & Fan, R. 2015. The Triassic floral assemblages and origin of Mesozoic flora in North China. Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz, 21: 81.
- Dick, D.G. & Maxwell, E.E. 2015. The evolution and extinction of the ichthyosaurs from the perspective of quantitative ecospace modelling. Biology Letters, 11(7): 20150339; DOI: 10.1098/rsbl.2015.0339.
- Diedrich, C. 2015. *Isochirotherium* trackways, their possible trackmakers (*?Arizonasaurus*): intercontinental giant archosaur migrations in the Middle Triassic tsunami-influenced carbonate intertidal mud flats of the European Germanic Basin. Carbonates and Evaporites, 30(3): 229–252.
- Díaz-Martínez, I., Castanera, D., Gasca, J.M. & Canudo, J.I. 2015. A reappraisal of the Middle Triassic chirotheriid *Chirotherium ibericus* Navás, 1906 (Iberian Range NE Spain), with comments on the Triassic track biochronology of the Iberian Peninsula. PeerJ 3: e1044 <https://doi.org/10.7717/peerj.1044>.
- Dill, H.G. 2015. Eine fluorit-führender sedimentäre Breksie des benker Sandsteins (unterer Mittlerer Keuper) aus dem Naabgebirge bei Saltendorf. Geologische Blätter für Nordost-Bayern, 65(2-4): 47–56.
- Dineen, A.A., Fraiser, M.L. & Jinnan Tong. 2015. Low functional evenness in a post-extinction Anisian (Middle Triassic) paleocommunity: a case study of the Leidapo Member (Qingyan Formation), south China. Global and Planetary Change, 133: 79–86.
- Ding Xiong, Tian Jing-chun, Yao Jing-li, Yu Hang-hang & Luo An-xiang. 2015. Sedimentary characteristics of the delta sandstones from the Chang-9 oil reservoirs in the Yanchang Formation, Ordos Basin. Sedimentary Geology and Tethyan Geology, 35(2015:4): 25–34.
- Djebbi, M. & Gabtni, H. 2015. 3D gravity modeling of a salt structure associated with the Trozza-Labaïed lineament (Central Tunisia) constrained by seismic and borehole data. Journal of African Earth Sciences, 103: 71–80.
- Domènech, M., Teixell, A., Babault, J. & Arboleya, M.-L. 2015. The inverted Triassic rift of the Marrakech High Atlas: a reappraisal of basin geometries and faulting histories. Tectonophysics, 663: 177–191.
- Dong-xun Yuan, Jun Chen, Yi-chun Zhang, Quan-feng Zheng & Shu-zhong Shen. 2015. Changhsingian conodont succession and the end-Permian mass extinction event at the Daijiagou section in Chongqing, southwest China. Journal of Asian Earth Sciences, 105: 234–251.
- Dostal, J., Owen, J.V., Shellnutt, J.G., Keppie, J.D., Gerel, O. & Corney, R. 2015. Petrogenesis of the Triassic Bayan-Ulan alkaline granitic pluton in the North Gobi rift of central Mongolia: implications for the evolution of Early Mesozoic granitoid magmatism in the Central Asian Orogenic Belt. Journal of Asian Earth Sciences, 109: 50–62.
- Dunhill, A.M. & Wills, M.A. 2015. Geographic range did not confer resilience to extinction in terrestrial vertebrates at the end-Triassic crisis. Nature Communications, 6, Article 7980. DOI: 10.1038/ncomms8980.
- Eberlei, T., Habler, G., Wegner, W., Schuster, R., Körner, W., Thöni, M. & Abart, R. 2015. Rb/Sr isotopic and compositional retentivity of muscovite during deformation. Lithos, 227: 161–178.
- Ehiro, M., Sasaki, O., Kano, H., Nemoto, J. & Kato, H. 2015. Thylacocephala (Arthropoda) from the Lower Triassic of the South Kitakami Belt, northeast Japan. Paleontological Research, 19(4): 269–282.
- El Jorfi, L., Süss, M.P., Aigner, T. & Mhammdi, N. 2015. Triassic – Quaternary sequence stratigraphy of the Tarafaya Basin (Moroccan Atlantic): structural evolution, eustasy and sedimentation. Journal of Petroleum Geology, 38(1): 77–98.
- Eltalibi, H., Zaghloul, M.N., El Moussaoui, S., El Ouragli, B. & Bouazza, N. 2015. Petrography and geochemistry of Triassic-Early Jurassic successions of El Haouz “Dorsale Calcaire” (northern Rif, Morocco): a preliminary assessment for cement production suitability. Bulletin de l’Institut Scientifique, Rabat, Section Sciences de la Terre, 37: 13–23.
- Enault, S., Guinot, G., Koot, M.B. & Cuny, G. 2015. Chondrichthyan tooth enamel: past, present and future. Zoological Journal of the Linnean Society, 174(3): 549–570.
- English, J.M., Lunn, G.A., Ferreira, L. & Yacu, G. 2015.

- Geologic evolution of the Iraqi Zagros, and its influence on the distribution of hydrocarbons in the Kurdistan region. AAPG Bulletin, 99(2): 231–272.
- Eppelbaum, L. & Katz, Y. 2015. Eastern Mediterranean: combined geological-geophysical zonation and paleogeodynamics of the Mesozoic and Cenozoic structural-sedimentation stages. Marine and Petroleum Geology, 65: 198–216.
- Ernst, A., Schäfer, P. & Grant-Mackie, J.A. 2015. New Caledonian Triassic bryozoa. Journal of Paleontology, 89(5): 730–747.
- Escudero-Mozo, M.J., Márquez-Aliaga, A., Goy, A., Martín-Chivelet, J., López-Gómez, J., Márquez, L., Arche, A., Plasencia, P., Pla, C., Marzo, M. & Sánchez-Fernández, D. 2015. Middle Triassic carbonate platforms in eastern Iberia: evolution of their fauna and palaeogeographic significance in the western Tethys. Palaeogeography, Palaeoclimatology, Palaeoecology, 417: 236–260.
- Estes-Smargiassi, K.A. & Klompmaker, A.A. 2015. An enigmatic trace fossil from the Upper Triassic (Rhaetian) shales of western Europe. Netherlands Journal of Geosciences, 94(3): 271–277.
- Ezcurra, M.D. & Butler, R.J. 2015. Taxonomy of the proterosuchid archosauriforms (Diapsida: Archosauromorpha) from the earliest Triassic of South Africa, and implications for the early archosauriform radiation. Palaeontology, 58(1): 141–170.
- Ezcurra, M.D. & Butler, R.J. 2015. Post-hatchling cranial ontogeny in the Early Triassic diapsid reptile *Proterosuchus fergusi*. Journal of Anatomy, 226(5): 387–402.
- Ezcurra, M., Desojo, J.B. & Rauhut, O.W.M. 2015. Redescription and phylogenetic relationships of the proterochampsid *Radinosuchus gracilis* (Diapsida: Archosauriformes) from the early Late Triassic of southern Brazil. Ameghiniana, 52(4): 391–407.
- Ezcurra, M.D., Martinelli, A.G., Fiorelli, L.E., Da-Rosa, A.A.S. & Desojo, J.B. 2015. Archosauromorph remains from the Tarjados Formation (early-Middle Triassic, NW Argentina). Ameghiniana, 52(5): 475–486.
- Ezcurra, M.D., Velozo, P., Meneghel, M. & Peñero, G. 2015. Early archosauromorph remains from the Permo-Triassic Buena Vista Formation of north-eastern Uruguay. PeerJ 3: e776 <http://dx.doi.org/10.7717/peerj.776>.
- Fang Hao, Xuefeng Zhang, Cunwu Wang, Pingping Li, Tongluo Guo, Huayao Zou, Yangming Zhu, Jianzhang Liu & Zhongxian Cai. 2015. The fate of CO₂ derived from thermochemical sulphate reduction (TSR) and effect of TSR on carbonate porosity and permeability, Sichuan Basin, China. Earth-Science Reviews, 141: 154–177.
- Fanxue Meng, Shan Gao, Yaoling Niu, Yongsheng Liu & Xiaorui Wang. 2015. Mesozoic-Cenozoic mantle evolution beneath the North China Craton: a new perspective from Hf-Nd isotopes of basalts. Gondwana Geology, 27(4): 1574–1585.
- Fareeduddin & Dilek, Y. 2015. Structure and petrology of the Nagaland-Manipur Hill ophiolitic mélange zone, NE India: a fossil Tethyan subduction channel at the India – Burma Plate boundary. Episodes, 38(4): 298–314.
- Fedak, T.J., Sues, H.-D. & Olsen, P.E. 2015. First record of the tritylodontid cynodont *Oligokyphus* and cynodont post-cranial bones from the McCoy Brook Formation of Nova Scotia, Canada. Canadian Journal of Earth Sciences, 52(4): 244–249.
- Fei Li, Jiaxin Yan, Zhong-Qiang Chen, Ogg, J.G., Li Tian, Korngreen, D., Ke Liu, Zulu Ma & Woods, A.D. 2015. Global oolite deposits across the Permian-Triassic boundary: a synthesis and implications for palaeoceanography immediately after the end-Permian biocrisis. Earth-Science Reviews, 149: 163–180.
- Felber, R., Weissert, H.J., Furrer, H. & Bontognali, T.R.R. 2015. The Triassic-Jurassic boundary in the shallow-water marine carbonates from the western Northern Calcareous Alps (Austria). Swiss Journal of Geosciences, 108(2): 213–224.
- Feldmann, R.M., Schweitzer, C.E., Shixue Hu, Jinyuan Huang, Changyong Zhou, Qiyue Zhang, Wen Wen, Tao Xie & Maguire, E. 2015. Spatial distribution of Crustacea and associated organisms in the Luoping Biota (Anisian, Middle Triassic), Yunnan Province, China: evidence of periodic mass kills. Journal of Paleontology, 89(6): 1022–1037.
- Feng Wang, Wen-Liang Xu, Yi-Gang Xu, Fu-Hong Gao & Wen-chun Ge. 2015. Late Triassic bimodal igneous rocks in eastern Heilongjiang Province, NE China: implications for the initiation of subduction of the Paleo-Pacific Plate beneath Eurasia. Journal of Asian Earth Sciences, 97: 406–423.
- Feng Wenjie, Wu Shenghe, Xia Qinyu, Li Junfei & Wu Shunwei. 2015. Micro-facies modeling of alluvial fan reservoir based on geological vector information: a case study on the Triassic Lower Karamay Formation, Yizhong area, Karamay oilfield, NW China. Geological Journal of China Universities, 2015 (3): 449–460.
- Ferrari, S.M. 2015. Systematic revision of Late Triassic marine gastropods from central Perú: considerations on the Late Triassic/Early Jurassic faunal turnover. Andean Geology, 42(1): 71–96.
- Ferrière, J., Chanier, F., Baumgartner, P.O., Dumitrica, P., Caridroit, M., Bout-Roumazeilles, V., Gravéreau, F., Danelian, T. & Ventalon, S. 2015. The evolution of the Triassic-Jurassic Maliac oceanic lithosphere: insights from the supra-ophiolitic series of Othris (continental Greece). Bulletin de la Société Géologique de France, 186(6): 399–411.
- Fichter, J. & Kunz, R. 2015. A tetrapod trackway assemblage from the Middle Bunter (early Triassic, Olenekian) of Wolfhagen, Northern Hesse, Germany. Zeitschrift der Deutschen Gesellschaft für Geowissenschaften, 166(3): 253–273.
- Fijałkowska-Mader, A. 2015. A record of climatic changes in the Triassic palynological spectra from Poland. Geological Quarterly, 59(4): 615–653.
- Fijałkowska-Mader, A., Heunisch, C. & Szulc, J. 2015. Palynostratigraphy and palynofacies of the Upper Silesian Keuper (southern Poland). Annales Societatis Geologorum Poloniae, 85(4): 637–661.
- Fijałkowska-Mader, A., Kuleta, M. & Zbroja, S. 2015. Lithostratigraphy, palynofacies and depositional environments of the Triassic deposits in the northern part of the Nida Basin. Buletyn Państwowego Instytutu Geologicznego, 462: 83–124.
- Fike, D.A., Bradley, A.S. & Rose, C.V. 2015. Rethinking the

- ancient sulfur cycle. Annual Review of Earth and Planetary Sciences, 43: 593–622.
- Font, E., Fernandes, S., Neres, M., Carvalho, C., Martins, L., Madeira, J. & Youbi, N. 2015. Paleomagnetism of the Central Atlantic Magmatic Province in the Algarve basin, Portugal: first insights. Tectonophysics, 663: 364–377.
- Forel, M.-B. 2015. Heterochronic growth of ostracods (Crustacea) from microbial deposits in the aftermath of the end-Permian extinction. Journal of Systematic Palaeontology, 13(4): 315–349.
- Forel, M.-B. & Crasquin, S. 2015. Comment on the Chu et al. paper “Lilliput effect in freshwater ostracods during the Permian-Triassic extinction” [Palaeogeography, Palaeoclimatology, Palaeoecology 435 (2015): 38–52]. Palaeogeography, Palaeoclimatology, Palaeoecology, 440: 860–862.
- Forel, M.-B., Crasquin, S., Chitnarin, A., Angiolini, L. & Gaetani, M. 2015. Precocious sexual dimorphism and the Lilliput effect in Neo-Tethyan Ostracoda (Crustacea) through the Permian-Triassic boundary. Palaeontology, 58(3): 409–454.
- Fortuny, J., Steyer, J.-S. & Hoşgör, I. 2015. First occurrence of temnospondyls from the Permian and Triassic of Turkey: paleoenvironmental and paleobiogeographic implications. Comptes Rendus Palevol, 14(4): 281–289.
- Foster, W.J., Danise, S., Sedlacek, A., Price, G.D., Hips, K. & Twitchett, R.J. 2015. Environmental controls on the post-Permian recovery of benthic, tropical marine ecosystems in western Palaeotethys (Aggtelek Karst, Hungary). Palaeogeography, Palaeoclimatology, Palaeoecology, 440: 374–394.
- Franz, M., Kaiser, S.I., Fischer, J., Heunisch, C., Kustatscher, E., Luppold, F.W., Berner, U. & Röhling, H.-G. 2015. Eustatic and climatic control on the Upper Muschelkalk Sea (late Anisian/Ladinian) in the Central European Basin. Global and Planetary Change, 135: 1–27.
- Friesenbichler, E., Baud, A., Krystyn, L., Sahakyan, L. & Richoz, S. 2015. Giant microbial build-ups of earliest Triassic in Armenia. Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz, 21: 113.
- Fristad, K.E., Pedentchouk, N., Roscher, M., Polozov, A. & Svensen, H. 2015. An integrated carbon isotope record of an end-Permian crater lake above a phreatomagmatic pipe of the Siberian Traps. Palaeogeography, Palaeoclimatology, Palaeoecology, 428: 39–49.
- Fu Lebing, Li Xiang, Tan Jun, Wang Xuchun, Wei Junhao, Zhao Shaoqing & Zhao Zhixin. 2015. Petrogenesis and geodynamic setting of Late Triassic quartz diorites in Zhiduo area, Qinghai Province. Earth Science-Journal of China University of Geosciences, 40(2015:1): 61–76.
- Gaetani, M. & Mantovani, N. 2015. Middle Triassic spiriferoid mentziids (Brachiopoda) from Alpine and Mediterranean areas. Rivista Italiana di Paleontologia e Stratigrafia, 121(2): 163–194.
- Gaetani, M., Meco, S., Rettori, R., Henderson, C.M. & Tulone, A. 2015. The Permian and Triassic in the Albanian Alps. Acta Geologica Polonica, 65(3): 271–295.
- Gaetano, L.C. & Abdala, F. 2015. The stapes of gomphodont cynodonts: insights into the middle ear structure of non-mammaliaform cynodonts. PLoS ONE, 10(7): e0131174. doi:10.1371/journal.pone.0131174.
- Galbrun, B., Boulila, S., Krystyn, L., Richoz, S., Bartolini, A. & Gardin, S. 2015. Rhaetian duration: astronomical calibration of Austrian key sections. Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz, 21: 119.
- Gale, L., Bogomir, C., Caggiati, M., Kolar-Jurkovšek, T., Jurkovšek, B. & Gianolla, P. 2015. Paleogeographic significance of Upper Triassic basinal succession of the Tamar Valley, northern Julian Alps (Slovenia). Geologica Carpathica, 66(4): 269–283.
- Gaoxue Yang, Shuanhai Yang, Liyong Wei, Zuochen Li, Ruibao Li, Duoxun Xu & Mannian Liu. 2015. Petrogenesis and geodynamic significance of the Late Triassic Tadong adakitic pluton in west Qinling, central China. International Geology Review, 57(13): 1755–1771.
- Garbelli, C. & Tintori, A. 2015. A preliminary study on the ornamentation patterns of ganoid scales in some Mesozoic actinopterygian fishes. Bollettino della Società Paleontologica Italiana, 54(3): 219–228.
- García-Lasanta, C., Oliva-Urcia, B., Román-Berdiel, T., Casas, A.M., Gil-Peña, I., Sánchez-Moya, Y., Sopeña, A., Hirt, A.M. & Mattei, M. 2015. Evidence for the Permo-Triassic transtensional rifting in the Iberian Range (NE Spain) according to magnetic fabrics results. Tectonophysics, 651–652: 216–231.
- Gastaldo, R.A., Kamo, S.L., Neveling, J., Geissman, J.W., Bamford, M. & Looy, C.V. 2015. Is the vertebrate-defined Permian-Triassic boundary in the Karoo Basin, South Africa, the terrestrial expression of the end-Permian marine event? Geology, 43(10): 939–942.
- Gattolin, G., Preto, N., Breda, A., Franceschi, M., Isotton, M. & Gianolla, P. 2015. Sequence stratigraphy after the demise of a high-relief carbonate platform (Carnian of the Dolomites): sea-level and climate disentangled. Palaeogeography, Palaeoclimatology, Palaeoecology, 423: 1–17.
- Gawlick, H.-J. & Missoni, S. 2015. Middle Triassic radiolarites: key rocks for Triassic-Jurassic geodynamic and palaeogeographic reconstructions of the western Tethyan realm? Derivation from lost oceanic domains and/or indicating ALCAPA or Dinaride/Hellenide provenance? New data from the Hallstatt Mélange (Northern Calcareous Alps, Austria). Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz, 21: 126.
- Gawlick, H.-J. & Missoni, S. 2015. Middle Triassic radiolarite pebbles in the Middle Jurassic Hallstatt Mélange of the Eastern Alps: implications for Triassic-Jurassic geodynamic and paleogeographic reconstructions of the western Tethys realm. Facies, 61(2): DOI 10.1007/s10347-015-0439-3. (19pp).
- Gay, R.J. & Aude, I.S. 2015. The first occurrence of the enigmatic archosauriform *Crosbysaurus* Heckert 2004 from the Chinle Formation of southern Utah. PeerJ 3: e905 https://doi.org/10.7717/peerj.905.

- George, G.T. 2015. Vale of Glamorgan. In: George, G.T. The Geology of South Wales. A Field Guide (Second edition). Bearsted, Kent: Geoserve Publishing, 75–106.
- Georgiev, S.V., Horner, T.J., Stein, H.J., Hannah, J.L., Bingen, B. & Rehkämper, M. 2015. Cadmium-isotopic evidence for increasing primary productivity during the Late Permian anoxic event. *Earth and Planetary Science Letters*, 410: 84–96.
- Gerasimov, V.Yu., Garanin, V.K., Pis'mennyi, A.N. & Enna, N.L. 2015. New data on the Mesozoic magmatism of the Bechasy zone, in the Greater Caucasus, and estimation of the age of the regional metamorphism. *Moscow University Geology Bulletin*, 70(4): 327–337.
- Ghasemi-Nejad, E., Ruffell, A., Rahimpour-Bonab, H., Sarifi, M., Soltani, B. & Sfidari, E. 2015. Spectral gamma-ray logs and palaeoclimate change? Permian-Triassic, Persian Gulf. *Geological Journal*, 50(2): 2010–2019.
- Ghosh, A.K., Kar, R. & Chatterjee, R. 2015. Leaf galls on *Dicroidium hughesii* (Feistmantel) Lele from the Triassic of India - a new record. *Alcheringa*, 39(1): 92–98.
- Giambiagi, L., Spagnotto, S., Moreiras, S.M., Gómez, G., Stahlschmidt, E. & Mescua, J. 2015. Three-dimensional approach to understanding the relationship between the Plio-Quaternary stress field and tectonic inversion in the Triassic Cuyo Basin, Argentina. *Solid Earth*, 6(2): 747–763.
- Gibson, S.Z. 2015. Evidence of a specialized feeding niche in a Late Triassic ray-finned fish: evolution of multidenticulate teeth and benthic scraping in *Hemicalypterus*. *The Science of Nature*, 102(3–4):10. DOI 10.1007/s00114-015-1262-y.
- Gierlowski-Kordesch, E.H. & Cassle, C.F. 2015. The ‘*Spirorbis*’ problem revisited: sedimentology and biology of microconchids in marine-nonmarine transitions. *Earth-Science Reviews*, 148: 209–227.
- Gigoux, M., Négrel, P., Guerrot, C., Brigand, B., Delpech, G., Pagel, M. & Auge, T. 2015. $\delta^{44}\text{Ca}$ of stratabound fluorite deposits in Burgundy (France): tracing fluid origin and/or fractionation processes. *Procedia Earth and Planetary Science*, 13: 129–133.
- Golding, M.L., Orchard, M.J., Zonneveld, J.-P., Wilson, N.S.F. & Reinson, G. 2015. Determining the age and depositional model of the Doig Phosphate Zone in northeastern British Columbia using conodont biostratigraphy. *Bulletin of Canadian Petroleum Geology*, 63(2): 143–179.
- Gottfried, M.D. & Fordyce, R.W. 2015. A Late Triassic chimeroid egg capsule from New Zealand: early evidence of chimeroid reproductive mode from the eastern margin of Gondwana. *Journal of Systematic Palaeontology*, 13(5): 371–375.
- Grant-Mackie, J.A. 2015. Taxonomy of the Late Triassic bivalve *Monotis*. *New Zealand Journal of Geology and Geophysics*, 58(3): 244–251.
- Grasby, S.E., Beauchamp, B., Bond, D.P.G., Wignall, P., Talavera, C., Galloway, J.M., Piepjohn, K., Reinhardt, L. & Blomeier, D. 2015. Progressive environmental deterioration in northwestern Pangea leading to the latest Permian extinction. *Geological Society of America Bulletin*, 127(9–10): 1331–1347.
- Grasby, S.E., Sanei, H. & Beauchamp, B. 2015. Forum Comment: Latest Permian chars may derive from wildfires, not coal combustion. *Geology*, 43(4): e358.
- Gretter, N., Ronchi, A., López-Gómez, J., Arche, A., De la Hora, R., Barrenechea, J. & Lago, M. 2015. The Late Palaeozoic-Early Mesozoic from the Catalan Pyrenees (Spain): 60 Myr of environmental evolution in the frame of the western peri-Tethyan palaeogeography. *Earth-Science Reviews*, 150: 679–708.
- Grobe, A., Littke, R., Sachse, V. & Leythaeuser, D. 2015. Burial history and thermal maturity of Mesozoic rocks of the Dolomites, northern Italy. *Swiss Journal of Geosciences*, 108(2): 253–271.
- Guang-hui Xu, Ke-qin Gao & Coates, M.I. 2015. Taxonomic revision of *Plesiosfuro mingshuica* from the Lower Triassic of northern Gansu, China, and the relationships of early neopterygian clades. *Journal of Vertebrate Paleontology*, 35(6): e1001515 (14 pp.). DOI: 10.1080/02724634.2015.892011.1001515.
- Guang-Hui Xu, Li-Jun Zhao & Chen-Chen Shen. 2015. A Middle Triassic thoracopterid from China highlights the evolutionary origin of overwater gliding in early ray-finned fishes. *Biology Letters*, 11(1): 20140960. DOI: 10.1098/rsbl.2014.0960.
- Guang-Hui Xu & Li-Jun Zhao. 2015. From *Potanichthys* to *Wushaichthys*: resolving the evolutionary origin and reproductive strategy of the Thoracopteridae: a reply to Tintori (2015). *Biology Letters*, 11(11): 20150604; DOI: 10.1098/rsbl.2015.0604.
- Guang-Ming Li, Jin-Xiang Li, Jun-Xing Zhao, Ke-Zhang Qin, Ming-Jian Cao & Evans, N.J. 2015. Petrogenesis and tectonic setting of Triassic granitoids in the Qiangtang terrane, central Tibet: evidence from U-Pb ages, petrochemistry and Sr-Nd-Hf isotopes. *Journal of Asian Earth Sciences*, 105: 443–455.
- Guangwei Wang, Pingping Li, Fang Hao, Huayao Zou & Xinya Yu. 2015. Origin of dolomite in the third member of Feixianguan Formation (Lower Triassic) in the Jinnan area, Sichuan Basin, China. *Marine and Petroleum Geology*, 63: 127–141.
- Guerriero, V., Dati, F., Giorgioni, M., Iannace, A., Mazzoli, S. & Vitale, S. 2015. The role of stratabound fractures for fluid migration pathways and storage in well-bedded carbonates. *Italian Journal of Geoscience*, 134(3): 383–395.
- Gulbranson, E.L., Ciccioli, P.L., Montañez, I.P., Marenni, S.A., Limarino, C.O., Schmitz, M.D. & Davydov, V. 2015. Paleoenvironments and age of the Talampaya Formation: the Permo-Triassic boundary in northwestern Argentina. *Journal of South American Earth Sciences*, 63: 310–322.
- Guo Shi, Woods, A.D., Meiyi Yu & Hengye Wei. 2015. Two episodes of evolution of trace fossils during the Early Triassic in the Guiyang area, Guizhou Province, South China. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 426: 275–284.
- Guo Yingchun, Song Yan, Pang Xiongqi, Wang Youwei, Yang Keming & Li Boyuan. 2015. Hydrocarbon generation and expulsion of the Upper Triassic $T_3\text{,x5}$ source rocks in the Western Sichuan Depression: assessment for unconventional natural gas. *Acta Geologica Sinica (English Edition)*, 89(1): 175–186.

- Haas, J., Lukaczki, G., Budai, T. & Demény, A. 2015. Genesis of Upper Triassic peritidal dolomites in the Transdanubian Range, Hungary. *Facies*, 61(3): DOI 10.1007/s10347-015-0435-7.
- Hadlari, T., Swindles, G.T., Galloway, J.M., Bell, K.M., Sulphur, K.C., Heaman, L.M., Beranek, L.P. & Fallas, K.M. 2015. 1.8 billion years of detrital zircon recycling calibrates a refractory part of Earth's sedimentary cycle. *PLoS ONE*, 10(12): e0144727. doi:10.1371/journal.pone.0144727.
- Hagdorn, H. 2015. Wirbellose des Lettenkeupers. *Palaeodiversity*, Special Issue: 107–140.
- Hagdorn, H. 2015. Spurenfossilien aus dem Lettenkeuper. *Palaeodiversity*, Special Issue: 267–281.
- Hagdorn, H. 2015. Die sandsteine des Lettenkeupers – bausteine für Kirchen, Klöster und Residenzen. *Palaeodiversity*, Special Issue: 427–436.
- Hagdorn, H., Heunisch, C. & Schoch, R. 2015. Biostratigraphie und Alter des Lettenkeupers. *Palaeodiversity*, Special Issue: 41–47.
- Hagdorn, H. & Kelber, K.-P. 2015. Kohle, alaun und vitriol – historische Rohstoffgewinnung. *Palaeodiversity*, Special Issue: 417–426.
- Hagdorn, H., Kelber, K.-P. & Schoch, R. 2015. Fossile Lebensgemeinschaften im Lettenkeuper. *Palaeodiversity*, Special Issue: 359–385.
- Hagdorn, H., Schoch, R., Seegis, D. & Werneburg, R. 2015. Wirbeltierlagerstätten im Lettenkeuper. *Palaeodiversity*, Special Issue: 325–358.
- Hagdorn, H. & Wang, X. 2015. The pseudoplanktonic crinoid *Traumatocrinus* from the Late Triassic of southwest China – morphology, ontogeny, and taphonomy. *Palaeoworld*, 24(4): 479–496.
- Haig, D.W., Martin, S.K., Mory, A.J., McLoughlin, S., Backhouse, J., Berrell, R.W., Kear, B.P., Hall, R., Foster, C.B., Shi, G.R. & Bevan, J.C. 2015. Early Triassic (early Olenekian) life in the interior of East Gondwana: mixed marine-terrestrial biota from the Kockatea Shale, Western Australia. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 417: 511–533.
- Haihua Zhu, Dakang Zhong, Jingli Yao, Haitao Sun, Xiaobing Niu, Xiaowei Liang, Yuan You & Xin Li. 2015. Alkaline diagenesis and its effects on reservoir porosity: a case study of Upper Triassic Chang 7 Member tight sandstone in Ordos Basin, NW China. *Petroleum Exploration and Development*, 42(1): 56–65.
- Haijun Song, Lirong Yang, Jinnan Tong, Jing Chen, Li Tian, Huyue Song & Daoliang Chu. 2015. Recovery dynamics of foraminifers and algae following the Permian-Triassic extinction in Qingyan, South China. *Geobios*, 48(1): 71–83.
- Haijun Song, Wignall, P.B., Jinnan Tong, Huyue Song, Jing Chen, Daoliang Chu, Li Tian, Mao Luo, Keqing Zong, Yanlong Chen, Xulong Lai, Kexin Zhang & Hongmei Wang. 2015. Integrated Sr isotope variations and global environmental changes through the Late Permian to early Late Triassic. *Earth and Planetary Science Letters*, 424: 140–147.
- Haishui Jiang, Joachimski, M.M., Wignall, P.B., Muhui Wang & Xulong Lai. 2015. A delayed end-Permian extinction in deep-water locations and its relationship to temperature trends (Bianyang, Guizhou Province, South China). *Palaeogeography, Palaeoclimatology, Palaeoecology*, 440: 690–695.
- Håkansson, E. & Pedersen, S.A.S. 2015. A healed strike-slip plate boundary in North Greenland indicated through associated pull-apart basins. *Geological Society, London, Special Publications*, 413: 143–169.
- Halamski, A.T., Bitner, M.A., Kaim, A., Kolar-Jurkovšek, T. & Jurkovšek, B. 2015. Unusual brachiopod fauna from the Middle Triassic algal meadows of Mt. Svilaja (Outer Dinarides, Croatia). *Journal of Paleontology*, 89(4): 553–575.
- Halas, S., Bojar, A.-V. & Peryt, T.M. 2015. Oxygen isotopes in authigenic quartz from massive salt deposits. *Chemical Geology*, 402: 1–5.
- Hanwen Dong, Zhiqin Xu, Yuan Li, Zhao Liu & Huaqi Li. 2015. The Mesozoic metamorphic-magmatic events in the Medog area, the Eastern Himalayan Syntaxis: constraints from zircon U-Pb geochronology, trace elements and Hf isotope compositions in granitoids. *International Journal of Earth Sciences*, 104(1): 61–74.
- Hao Cheng, Yumeng Liu, Vervoort, J.D. & Honghua Lu. 2015. Combined U-Pb, Lu-Hf, Sm-Nd and Ar-Ar multichronometric dating on the Bailand eclogite constrains the closure timing of the Paleo-Tethys Ocean in the Lhasa terrane, Tibet. *Gondwana Geology*, 28(4): 1482–1499.
- Hao Yang, Wenchen Ge, Guochun Zhao, Jiejiang Yu & Yanlong Zhang. 2015. Early Permian-Late Triassic granitic magmatism in the Jiamusi-Khanka Massif, eastern segment of the Central Asian Orogenic Belt and its implications. *Gondwana Geology*, 27(4): 1509–1533.
- Hao Yang, Wenchen Ge, Guochun Zhao, Yu Dong, Wenliang Xu, Zheng Ji & Jie-jiang Yu. 2015. Late Triassic intrusive complex in the Jidong region, Jiamusi-Khanka Block, NE China: geochemistry, zircon U-Pb ages, Lu-Hf isotopes, and implications for magma mingling and mixing. *Lithos*, 224–225: 143–159.
- Hao Yang, Zhong-qiang Chen, Yongbiao Wang, Weiquan Ou, Wei Liao & Xi Mei. 2015. Palaeoecology of microconchids from microbialites near the Permian-Triassic boundary in South China. *Lethaia*, 48(4): 497–508.
- Hao Yang, Zhong-Qiang Chen & Weiquan Ou. 2015. Microconchids from microbialites near the Permian-Triassic boundary in the Zuodeng section, Baise area, Guangxi Zhuang Autonomous Region, South China and their paleoenvironmental implications. *Journal of Earth Science*, 26(2): 157–165.
- Harding, R. & Huuse, M. 2015. Salt on the move: multi stage evolution of salt diapirs in the Netherlands North Sea. *Marine and Petroleum Geology*, 61: 39–55.
- Harishidayat, D., Omosanya, K.O. & Johansen, S.E. 2015. 3D seismic interpretation of the depositional morphology of the Middle to Late Triassic fluvial system in Eastern Hammerfest Basin, Barents Sea. *Marine and Petroleum Geology*, 68: 470–479.
- Harper, C.J., Taylor, T.N., Krings, M. & Taylor, E.L. 2015. Arbuscular mycorrhizal fungi in a voltzialean conifer from the Triassic of Antarctica. *Review of Palaeobotany and Palynology*,

- 215: 76–84.
- Hausmann, I.M. & Nützel, A. 2015. Diversity and palaeoecology of a highly diverse Late Triassic marine biota from the Cassian Formation of north Italy. *Lethaia*, 48(2): 235–255.
- Hautmann, M., Bagherpour, B., Brosse, M., Frisk, Å., Hofmann, R., Baud, A., Nützel, A., Goudemand, N. & Bucher, H. 2015. Competition in slow motion: the unusual case of benthic marine communities in the wake of the end-Permian mass extinction. *Palaeontology*, 58(5): 871–901.
- He Miao, Li Ting Dong, Zhang Li-wei, Yao Jian-xin, You Guo-qing, Geng Shu-fang & Wu Xiao-jun. 2015. The construction of Triassic stratigraphic framework of the northwest margin of Junggar Basin based on the evidence from lithology, logging, seismic survey and geochemistry. *Acta Geoscientica Sinica*, 2015(2): 151–160.
- He, W., Shi, G.R., Twitchett, R.J., Zhang, Y., Zhang, K., Song, H., Yue, M., Wu, S., Wu, H., Yang, T. & Xiao, Y. 2015. Late Permian marine ecosystem collapse began in deeper waters: evidence from brachiopod diversity and body size changes. *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 21: 154.
- He, W.-H., Shi, G.R., Twitchett, R.J., Zhang, Y., Zhang, K.-X., Song, H.-J., Yue, M.-L., Wu, S.-B., Wu, H.-T., Yang, T.-L. & Xiao, Y.-F. 2015. Late Permian marine ecosystem collapse began in deeper waters: evidence from brachiopod diversity and body size changes. *Geobiology*, 13(2): 123–138.
- Heckert, A.B. & Lucas, S.G. 2015. Triassic vertebrate paleontology in New Mexico. *New Mexico Museum of Natural History & Science Bulletin*, 68: 77–95.
- Heckert, A.B., Schneider, V.P., Fraser, N.C. & Webb, R.A. 2015. A new aetosaur (Archosauria, Suchia) from the Upper Triassic Pekin Formation, Deep River Basin, North Carolina, U.S.A., and its implications for early aetosaur evolution. *Journal of Vertebrate Paleontology*, 35(1): e881831 (13 pp.). DOI: 10.1080/02724634.2014.881831.
- Heim, N.A., Knope, M.L., Schaal, E.K., Wang, S.C. & Payne, J.L. 2015. Cope's rule in the evolution of marine animals. *Science*, 347(6224): 867–870.
- Heindel, K., Richoz, S., Birgel, D., Brandner, R., Klügel, A., Krystyn, L., Baud, A., Horacek, M., Mohta, T. & Peckmann, J. 2015. Biogeochemical formation of calyx-shaped carbonate crystal fans in the subsurface of the Early Triassic seafloor. *Gondwana Research*, 27(2): 840–861.
- Helmkampf, K.E. 2015. Zyklenstratigrafie der Estherienschichten (Obere Trias, S-Deutschland, NO-Bayern). *Geologische Blätter für Nordost-Bayern*, 65(2–4): 71–92.
- Hendrickx, C., Hartman, S.A. & Mateus, O. 2015. Overview of non-avian theropod discoveries and classification. *PalArch's Journal of Vertebrate Palaeontology*, 12(1): 1–73.
- Hengye Wei, Hao Yu, Jianguo Wang, Zhen Qiu, Lei Xiang & Guo Shi. 2015. Carbon isotopic shift and its cause at the Wuchiapingian-Changhsingian boundary in the Upper Permian at the Zhaojiaba section, South China: evidences from multiple geochemical proxies. *Journal of Asian Earth Sciences*, 105: 270–285.
- Hengye Wei, Jun Shen, Schoepfer, S.D., Krystyn, L., Richoz, S. & Algeo, T.J. 2015. Environmental controls on marine ecosystem recovery following mass extinctions, with an example from the Early Triassic. *Earth-Science Reviews*, 149: 108–135.
- Heunisch, C. 2015. Die palynoflora des Lettenkeupers. *Palaeodiversity*, Special Issue: 101–106.
- Hilgen, F.J., Hinnov, L.A., Aziz, H.A., Abels, H.A., Batenburg, S., Bosmans, J.H.C., De Boer, B., Hüsing, S.K., Kuiper, K.F., Lourens, L.J., Rivera, T., Tuenter, E., Van de Val, R.S.W., Wotzlaw, J.-F. & Zeeden, C. 2015. Stratigraphic continuity and fragmentation: the success of cyclostratigraphy as part of intergrated stratigraphy. *Geological Society, London, Special Publications*, 404: 157–197.
- Hips, K., Haas, J., Poros, Z., Kele, S. & Budai, T. 2015. Dolomitization of Triassic microbial mat deposits (Hungary): origin of microcrystalline dolomite. *Sedimentary Geology*, 318: 113–129.
- Hochuli, P., Roghi, G. & Brack, P. 2015. Palynological zonation and particulate organic matter of the Middle Triassic of the Southern Alps (Seceda and Val Gola-Margon sections, Northern Italy). *Review of Palaeobotany and Palynology*, 218: 28–47.
- Hofmann, R., Buatois, L.A., MacNaughton, R.B. & Mángano, M.G. 2015. Loss of the sedimentary mixed layer as a result of the end-Permian extinction. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 428: 1–11.
- Hofmann, R., Hautmann, M. & Bucher, H. 2015. Recovery dynamics of benthic marine communities from the Lower Triassic Werfen Formation, northern Italy. *Lethaia*, 48(4): 474–496.
- Holgado, B., Dalla Vecchia, F.M., Fortuny, J., Bernardini, F. & Tuniz, C. 2015. A reappraisal of the purported gastric pellet with pterosaurian bones from the Upper Triassic of Italy. *PLoS ONE*, 10(11): e0141275. doi:10.1371/journal.pone.0141275.
- Holland, S.M. & Patzkowsky, M.E. 2015. The stratigraphy of mass extinctions. *Palaeontology*, 58(5): 903–924.
- Holland, S.M. & Sclafani, J.A. 2015. Phaerozoic diversity and neutral theory. *Paleobiology*, 41(3): 369–376.
- Holz, M. 2015. Mesozoic paleogeography and paleoclimates – a discussion of the diverse greenhouse and hothouse conditions of an alien world. *Journal of South American Earth Sciences*, 61: 91–107.
- Honghong Wei, Guoli Wu & Liang Duan. 2015. Revisiting Triassic stratigraphy of the Yannshan Belt. *SCIENCE CHINA Earth Sciences*, 58(4): 491–501.
- Hooker, J.N., Larson, T.E., Eakin, A., Laubach, S.E., Eichhubl, P., Fall, A. & Marrett, R. 2015. Fracturing and fluid flow in a sub-décollement sandstone; or, a leak in the basement. *Journal of the Geological Society, London*, 172(4): 428–442.
- Horacek, M., Krystyn, L. & Brandner, R. 2015. The Pufels/Bulla section: C-isotope curve, the problem of its interpretation and the current status of knowledge. *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 21: 167.
- Hori, R.S., Takayama, K., Grant-Mackie, J.A., Spörli, B.K., Aita, Y., Sakai, T., Takemura, A. & Kodama, K. 2015. New high latitude *Capnuchospaera* species (Triassic radiolaria) from

- Waipapa Terrane, New Zealand. *Revue de micropaléontologie*, 58(1): 13–28.
- Horn, B.L.D., Schultz, C.L., Quezado de Figueiredo, A.E. & Motta, F.A. 2015. Recognition of the *Hyperodapedon* Assemblage Zone (Late Triassic) in a relictual occurrence over the Sul-Rio-Grandense Shield. *Revista Brasileira de Paleontologia*, 18(1): 91–96.
- Horváth, B. & Hips, K. 2015. Microfacies associations of Middle and Upper Triassic slope and basin carbonates deposited along the Neo-Tethyan margin, NE Hungary. *Austrian Journal of Earth Sciences*, 108(1): 34–49.
- Huang Sijin, Li Xiaoning, Wu Wenhui, Zhang Meng, Hu Zuowei, Liu Sibing, Huang Keke & Zhong Yijiang. 2015. The paleoceanography during the time with high $\delta^{13}\text{C}$ of Phanerozoic marine carbonates. *Advances in Earth Science (Journal of Xidian University)*, 30(11): 1185–1197.
- Huang, Y. & Chen, Z. 2015. Early-Middle Triassic redox condition variations in ramp settings, South China. *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 21: 170.
- Huayu Yuan, Yuanfang Cheng & Youzhi Li. 2015. Formation selection criteria for volume fracturing in Chang 7 Tight Reservoir in the Ordos Basin. *Advances in Petroleum Exploration and Development*, 10(2): 67–71.
- Hudspith, V.A., Rimmer, S.M. & Belcher, C.M. 2015. Latest Permian chars may derive from wildfires, not coal combustion. *Geology*, 43(5): e363.
- Huichan Liu, Yuejun Wang, Cawood, P.A., Weiming Fan, Yongfeng Cai & Xiaowan Xing. 2015. Record of Tethyan ocean closure and Indosinian collision along the Ailaoshan suture zone (SW China). *Gondwana Research*, 27(3): 1292–1306.
- Huiming Bao. 2015. Sulfate: a time capsule for Earth's O_2 , O_3 , and H_2O . *Chemical Geology*, 395: 108–118.
- Hull, P. 2015. Life in the aftermath of mass extinctions. *Current Biology*, 25(19): R941–R952.
- Hunt, A.P. & Lucas, S.G. 2015. Vertebrate trace fossils from New Mexico and their significance. *New Mexico Museum of Natural History & Science Bulletin*, 68: 9–40.
- Huttenlocher, A.K. & Abdala, F. 2015. Revision of the first therocephalian, *Theriognathus* Owen (Therapsida: Whaitsiidae), and implications for cranial ontogeny and allometry in nonmammaliaform eutherodonts. *Journal of Paleontology*, 89(4): 645–664.
- Ibarra, Y., Corsetti, F.A., Greene, S.E. & Bottjer, D.J. 2015. Microfacies of the Cotham Marble: a tubestone microbialite from the Upper Triassic, southwestern U.K.: a reply. *Palaios*, 30(11): 806–809.
- Ikeda, M., Hori, R.S., Okada, Y. & Nakada, R. 2015. Volcanism and deep-ocean acidification across the end-Triassic extinction event. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 440: 725–733.
- Ilyina, N. & Konstantinov, A. 2015. New biostratigraphic data on Anisian (Middle Triassic) miospores from Cape Tsvetkov section, northern Middle Siberia, Russia. *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 21: 174.
- Innocent, C., Kloppmann, W., Millot, R. & Vaute, L. 2015. U isotope systematics of groundwaters from the Triassic aquifer of the northeastern Paris Basin and the Rhine Graben, France. *Procedia Earth and Planetary Science*, 13: 112–115.
- Iqbal, S. & Wagreich, M. 2015. End Triassic regression: Triassic-Jurassic boundary from the Tethyan Salt Range, Pakistan. *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 21: 177.
- Jacquemyn, C., Huysmans, M., Hunt, D., Casini, G. & Swennen, R. 2015. Multi-scale three-dimensional distribution of fracture- and igneous intrusion-controlled hydrothermal dolomite from digital outcrop model, Latemar platform, Dolomites, northern Italy. *AAPG Bulletin*, 99(5): 957–984.
- Javadi, F.V. & Parvacideh, A. 2015. Plant macrofossils from the Takht coal mine, Minoodasht and its dating, relative abundance and Sørensen index in comparison with other florizones in Iran and Eurasia. *Stratigraphy and Sedimentology Researches*, 30(4): 59–86.
- Jian Kun-kun, Wei Yan-xia, Shi Bin, Liu Li, Wang Xing & Yuan Zhang. 2015. Petrogenesis and geological significance of the Early Mesozoic mafic dyke swarms in the Zhongzaohuo area, East Kunlun orogenic belt. *Geology in China*, 2015(5): 1457–1470.
- Jianbo Chen, Algeo, T.J., Laishi Zhao, Zhong Qiang Cehn, Ling Cao, Lei Zhang & Tang Li. 2015. Diagenetic uptake of rare earth elements by bioapatite, with an example from Lower Triassic conodonts of South China. *Earth-Science Reviews*, 149: 181–202.
- Jianxin Yu, Broutin, J., Zheng-Qiang Chen, Xiao Shi, Hui Li, Daoliang Chu & Qisheng Huang. 2015. Vegetation changeover across the Permian-Triassic Boundary in Southwest China, extinction, survival, recovery and palaeoclimate: a critical review. *Earth-Science Reviews*, 149: 203–224.
- Jiao Xuwen, Gong Lei, Wang Chaoyong, Sun Xu & Qi Le. 2015. Microfacies and evolution of sedimentary on carbonate rocks around the Permian-Triassic boundary in Xianfeng, south Sichuan. *Acta Sedimentologica Sinica*, 2015(5): 865–877.
- Jia-Xi Zhou, Jun-Hao Bai, Zhi-Long Huang, Dan Zhu, Zai-Fei Yan & Zhi-Cheng Lv. 2015. Geology, isotope geochemistry and geochronology of the Jinshachang carbonate-hosted Pb-Zn deposit, southwest China. *Journal of Asian Earth Sciences*, 98: 272–284.
- Jie Han, Jian-Bo Zhou, Bin Wang & Jia-Lin Cao. 2015. The final collision of the CAOB: constraint from the zircon U-Pb dating of the Linxi Formation, Inner Mongolia. *Geoscience Frontiers*, 6(2): 211–225.
- Jie Zhao, Baochun Huang, Yonggang Yan & Donghai Zhang. 2015. Late Triassic paleomagnetic result from the Baoshan Terrane, west Yunnan of China: implication for orientation of the East Paleotethys suture zone and timing of the Sibumasu-Indochina collision. *Journal of Asian Earth Sciences*, 111: 350–364.
- Jih-Pai Lin. 2015. Treasure with blood: on the discovery of *Traumatocrinus* (Echinodermata, Triassic) crowns in China. *Palaeoworld*, 24(4): 363–368.
- Jin Xin, Ji Guo-feng, Shi Zhi-qiang & Wang Yan-yan. 2015. Siliceous sponge reefs of the Ma'antang Formation (Upper

- Triassic) in northwestern Sichuan. *Acta Palaeontologica Sinica*, 2015(3): 396–403.
- Jing Chen, Bing-Zhang Wang, Bin Li, Zhi-Qing Zhang, Bao-Xing Qiao & Ting-Ting Jin. 2015. Zircon U-Pb ages, geochemistry, and Sr-Nd-Pb isotopic compositions of Middle Triassic granodiorites from the Kaimuqi area, East Kunlun, Northwest China: implications for slab breakoff. *International Geology Review*, 58(2): 257–270.
- Jing Chen, Jinnan Tong, Haijun Song, Mao Luo, Yunfei Huang & Ye Xiang. 2015. Recovery pattern of brachiopods after the Permian-Triassic crisis in South China. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 433: 91–105.
- Jingeng Sha, Olsen, P.E., Yanhong Pan, Daoyi Xu, Yaqiang Wang, Xiaolin Zhang, Xiaogang Yao & Vajda, V. 2015. Triassic-Jurassic climate in continental high-latitude Asia was dominated by obliquity-paced variations (Junggar Basin, Ürümqi, China). *Proceedings of the National Academy of Sciences*, 112(12): 3624–3629.
- Jinrui Zhang, Chunjing Wei & Hang Chu. 2015. Blueschist metamorphism and its tectonic implication of Late Paleozoic-Early Mesozoic metabasites in the mélange zones, central Inner Mongolia, China. *Journal of Asian Earth Sciences*, 97: 352–364.
- Jolivet, M., Roger, F., Xu, Z.Q., Paquette, J.-L. & Cao, H. 2015. Mesozoic-Cenozoic evolution of the Danba dome (Songpan Garzê, East Tibet) as inferred from LA-ICPMS U-Pb and fission track data. *Journal of Asian Earth Sciences*, 102: 180–204.
- Ju Wei, Sun Weifeng & Hou Guiting. 2015. Insights into the tectonic fractures in the Yanchang Formation interbedded sandstone-mudstone of the Ordos Basin based on core data and geomechanical models. *Acta Geologica Sinica*, 89(6): 1986–1997.
- Jun Liu, Butler, R., Sullivan, C. & Ezcurra, M. 2015. ‘*Chasmatosaurus ultimus*’, a putative proterosuchid archosauriform from the Middle Triassic, is an indeterminate crown archosaur. *Journal of Vertebrate Paleontology*, 35(5): e965779 (5 pp.). DOI: 10.1080/02724634.2015.892011. 965779.
- Jun Shen, Schoepfer, S.D., Qinglai Feng, Lian Zhou, Jianxin Yu, Huyue Song, Hengye Wei & Algeo, T.J. 2015. Marine productivity changes during the end-Permian crisis and Early Triassic recovery. *Earth-Science Reviews*, 149: 136–162.
- Junfeng Zhao, Mountney, N.P., Chi Yang Liu, Hongjun Qu & Jinyan Lin. 2015. Outcrop architecture of a fluvio-lacustrine succession: Upper Triassic Yanchang Formation, Ordos Basin, China. *Marine and Petroleum Geology*, 68: 394–413.
- Kainian Huang & Opdyke, N.D. 2015. Post-folding magnetization of the Triassic rocks from western Guizhou and southern Yunnan provinces: new evidence for large clockwise rotations in the Simao Terrane. *Earth and Planetary Science Letters*, 423: 155–163.
- Kai-Xing Wang, Wei-Feng Chen, Pei-Rong Chen, Hong-Fei Ling & Hui Huang. 2015. Petrogenesis and geodynamic implications of the Xiema and Ziyunshan plutons in Hunan Province, South China. *Journal of Asian Earth Sciences*, 111: 919–935.
- Kang Lei, Xiao Pei-xi, Gao Xiao-feng, Xi Ren-gang & Yang Zai-chao. 2015. Neopalaeozoic and Mesozoic granitoid magmatism and tectonic evolution of the western West Kunlun mountains. *Geology in China*, 2015(3): 533–552.
- Karádi, V. & Mazza, M. 2015. New advances in the conodont biostratigraphy of the Upper Triassic successions in Csővár and the Buda Mts, Transdanubian Range, Hungary. *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 21: 192.
- Karasev, E. & Turnau, E. 2015. Earliest Triassic (Induan) megaspores from Moscow Syncline, Russia: taxonomy and stratigraphy. *Annales Societatis Geologorum Poloniae*, 85(1): 271–284.
- Karr, J.A. & Clapham, M.E. 2015. Taphonomic biases in the insect fossil record: shifts in articulation over geologic time. *Paleobiology*, 41(1): 16–32.
- Kasprak, A.H., Sepúlveda, J., Price-Waldman, R., Williford, K.H., Schoepfer, S.D., Haggart, J.W., Ward, P.D., Summons, R.E. & Whiteside, J.H. 2015. Episodic photic zone euxinia in the northeastern Panthalassic Ocean during the end-Triassic extinction. *Geology*, 43(4): 307–310.
- Kato, T.T. & Godoy, E. 2015. Middle to late Triassic mélange exhumation along a pre-Andean fault system: coastal Chile (26°–42°S). *International Geology Review*, 57(5–8): 606–628.
- Ke Chen, Wei Lin & Qingchen Wang. 2015. The Bogeda Shan uplifting: evidence from multiple phases of deformation. *Journal of Asian Earth Sciences*, 99: 1–12.
- Kelber, K.-P. 2015. Die makroflora des Lettenkeupers. *Palaeodiversity*, Special Issue: 51–100.
- Kelber, K.-P. & Schoch, R. 2015. Lebensbilder des Lettenkeupers im Wandel der Zeiten. *Palaeodiversity*, Special Issue: 407–413.
- Kelley, N.P. & Pyenson, N.D. 2015. Evolutionary innovation and ecology in marine tetrapods from the Triassic to the Anthropocene. *Science*, 348(6232): aaa3716. DOI: 10.1126/science.aaa3716. 7pp.
- Kellner, A.W.A. 2015. Comments on Triassic pterosaurs with discussion about ontogeny and description of new taxa. *Anais da Academia Brasileira de Ciências*, 87(2): 669–689.
- Kiessling, W. & Kocsis, Á.T. 2015. Biodiversity dynamics and environmental occupancy of fossil azooxanthellate and zooxanthellate scleractinian corals. *Paleobiology*, 41(3): 402–414.
- Kiliç, A.M. & Hirsch, F. 2015. The Triassic marine fauna of northern Turkey. *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 21: 200.
- Kiliç, A.M., Plasencia, P., Ishida, K., Guex, J. & Hirsch, F. 2015. Triassic climatic-eustatic links in conodont evolution. *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 21: 201.
- Kiliç, A.M., Plasencia, P., Ishida, K., Guex, J. & Hirsch, F. 2015. Conodonts versus Triassic climatic and eustatic changes. *Procedia Earth and Planetary Science*, 15: 321–324.
- Kiliç, A.M., Plasencia, P., Ishida, K. & Hirsch, F. 2015. The case of the Carnian (Triassic) conodont genus *Metapolygnathus* Hayashi. *Journal of Earth Science*, 26(2): 219–223.
- Kirschvink, J.L., Isozaki, Y., Shibuya, H., Otofuji, O., Raub, T.D., Hilburn, I.A., Kasuya, T., Yokoyama, M. &

- Bonifacie, M. 2015. Challenging the sensitivity limits of paleomagnetism: magnetostratigraphy of weakly magnetized Guadalupian-Lopingian (Permian) limestone from Kyushu, Japan. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 418: 75–89.
- Klausen, T.G., Ryseth, A.E., & Helland-Hansen, W. 2015. Regional development and sequence stratigraphy of the Middle to Late Triassic Snadd Formation, Norwegian Barents Sea. *Marine and Petroleum Geology*, 62: 102–122.
- Klein, C.G., Whiteside, D.I., Selles de Lucas, V., Viegas, P.A. & Benton, M.J. 2015. A distinctive Late Triassic microvertebrate fissure fauna and a new species of *Clevosaurus* (Lepidosauria: Rhynchocephalia) from Woodleaze Quarry, Gloucestershire, UK. *Proceedings of the Geologists' Association*, 126(3): 402–416.
- Klein, H. & Kneidel, V. 2015. Tetrapodenfährten aus den Estherienschichten (Obertrias, Grabfeld-Formation) der Tongrube Barbaraberg (Speinshart, NO-Bayern) – profilneuaufnahme, bildungsmilieu und hinweise zur palökologie. *Geologische Blätter für Nordost-Bayern*, 65(2–4): 93–130.
- Klein, H., Lucas, S.G. & Voigt, S. 2015. Revision of the ?Permian-Triassic tetrapod ichnogenus *Procollophonichnium* Nopcsa 1923 with description of the new ichnospecies *P. lockleyi*. *Ichnos*, 22(3–4): 155–176.
- Klein, N., Houssaye, A., Neenan, J.M. & Scheyer, T.M. 2015. Long bone histology and microanatomy of *Placodontia* (Diapsida: Sauropterygia). *Contributions to Zoology*, 84(1): 59–84.
- Klein, N., Neenan, J.M., Scheyer, T.M. & Griebeler, E.-M. 2015. Growth patterns and life-history strategies in *Placodontia* (Diapsida: Sauropterygia). *Royal Society Open Science*, 2: 140440. DOI:10.1098/rsos.140440.
- Klein, N., Voeten, D.F.A.E., Lankamp, J., Bleeker, R., Sichelschmidt, O.J., Liebrand, M., Nieweg, D.C. & Sander, P.M. 2015. Postcranial material of *Nothosaurus marchicus* from the Lower Muschelkalk (Anisian) of Winterswijk, The Netherlands, with remarks on swimming styles and taphonomy. *Paläontologische Zeitschrift*, 89(4): 961–981.
- Knaust, D. 2015. Trace fossils from the continental Upper Triassic Kågeröd Formation of Bornholm, Denmark. *Annales Societatis Geologorum Poloniae*, 85(3): 481–492.
- Koch, R., Spitzberg, S. & Ufrecht, W. 2015. Sedimentologische, mikrofazielle und mineralogische Untersuchungen zur Verkarstung des Trigonodusdolomits (Oberer Muschelkalk, Rottweil-Formation) in Stuttgart. *Geologische Blätter für Nordost-Bayern*, 65(2–4): 131–156.
- Kolar-Jurkovšek, T. & Jurkovšek, B. 2015. Conodont zonation of Lower Triassic strata in Slovenia. *Geologija*, 58(2): 155–174.
- Kondla, D., Sanei, H., Embry, A., Ardakani, O.H. & Clarkson, C.R. 2015. Depositional environment and hydrocarbon potential of the Middle Triassic strata of the Sverdrup Basin, Canada. *International Journal of Coal Geology*, 147–148: 71–84.
- Konieczna, N., Belka, Z. & Dopieralska, J. 2015. Nd and Sr isotopic evidence for provenance of clastic material of the Upper Triassic rocks of Silesia, Poland. *Annales Societatis Geologorum Poloniae*, 85(4): 675–684.
- Konstantinov, A.G. 2015. Subdivision of the Ladinian *Stolleyites tenuis* zone in the northern Okhotsk region. *Russian Journal of Pacific Geology*, 9(5): 381–389.
- Koot, M.B., Cuny, G., Orchard, M.J., Richoz, S., Hart, M.B. & Twitchett, R.J. 2015. New hybodont and neoselachian sharks from the Lower Triassic of Oman. *Journal of Systematic Palaeontology*, 13(10): 891–917.
- Korneisel, D., Gallois, R.W., Duffin, C.J. & Benton, M.J. 2015. Latest Triassic marine sharks and bony fishes from a bone bed preserved in a burrow system, from Devon, UK. *Proceedings of the Geologists' Association*, 126(1): 130–142.
- Korneisel, D., Gallois, R.W., Duffin, C.J. & Benton, M.J. 2015. Corrigendum to “Latest Triassic marine sharks and bony fishes from a bone bed preserved in a burrow system, from Devon, UK”. [Proc. Geol. Ass. 126(1) (2015) 130–142]. *Proceedings of the Geologists' Association*, 126(2), 295.
- Korngreen, D. & Bialik, O.M. 2015. The characteristics of carbonate system recovery during a relatively dry event in a mixed carbonate/siliciclastic environment in the Pelsonian (Middle Triassic) proximal marginal marine basins: a case study from the tropical Tethyan northwest Gondwana margins. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 440: 793–812.
- Kotov, A.B., Velikoslavinskii, S.D., Sal'nikova, E.B., Sorokin, A.A., Sorokin, A.P., Kovach, V.P., Zagornaya, N.Yu., Yakovleva, S.Z., Tolmacheva, E.V. & Plotkina, Yu.V. 2015. Mesozoic age of the last episode of high-temperature metamorphism of the Sutam Block of the Stanovoi Suture. *Doklady Earth Sciences*, 463(1): 668–671.
- Kowal-Linka, M. 2015. Analysis of narrow cavity fillings as a tool to recognise diverse taphonomic histories of fossil reptile bones: implications for the genesis of the Lower Muschelkalk marine bone-bearing bed (Middle Triassic, Źyglin, S Poland). *Palaeogeography, Palaeoclimatology, Palaeoecology*, 436: 64–76.
- Kowal-Linka, M. & Jochum, K.P. 2015. Variability of trace element uptake in marine reptile bones from three Triassic sites (S Poland): influence of diagenetic processes on the host rock and significance of applied methodology. *Chemical Geology*, 397: 1–13.
- Kozu, S., Apsorn Sardsud, Doungrutai Saesaengseerung, Chedchan Pothichaiya, Sashida, K. & Agematsu, S. 2015. Dinosaur footprints in northeastern Thailand. *Fossils – The Palaeontological Society of Japan*, 98: 1–2.
- Krajewski, K.P. & Weitschat, W. 2015. Depositional history of the youngest strata of the Sassendalen Group (Bravaisberget Formation, Middle Triassic-Carnian) in southern Spitsbergen, Svalbard. *Annales Societatis Geologorum Poloniae*, 85(1): 151–175.
- Krissansen-Totton, J., Buick, R. & Catling, D.G. 2015. A statistical analysis of the carbon isotope record from the Archean to Phanerozoic and implications for the rise of oxygen. *American Journal of Science*, 315(4): 275–316.
- Krupchatnikov, V.I., Vrublevskii, V.V. & Kruk, N.N. 2015. Early Mesozoic lamproites and monzonitoids of southeastern Gorny Altai: geochemistry, Sr-Nd isotope composition, and sources

- of melts. *Russian Geology and Geophysics*, 56(6): 825–843.
- Krystyn, L., Horacek, M., Brandner, R. & Parcha, S. 2015. Carbon isotopy as major chronostratigraphic correlation tool: the Early Triassic case. *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 21: 212.
- Krystyn, L., Richoz, S., Maslo, M., Kuerschner, W., Gardin, S. & Gallet, Y. 2015. Proposal for a candidate GSSP for the base of the Rhaetian Stage at Steinbergkogel (Salzkammergut, Austria). *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 21: 213.
- Kubik, R., Uhl, D. & Marynowski, L. 2015. Evidence of wildfires during deposition of the Upper Silesian Keuper succession, southern Poland. *Annales Societatis Geologorum Poloniae*, 85(4): 685–696.
- Kus, J., Tolmacheva, T., Dolezych, M., Gaedicke, C., Franke, D., Brandes, C., Blumenberg, M., Piepjohn, K. & Pletsch, T. 2015. Organic matter type, origin and thermal maturity of Paleozoic, Mesozoic and Cenozoic successions of the New Siberian Islands, eastern Russian Arctic. *International Journal of Coal Geology*, 152(B): 125–146.
- Kustatscher, E., Donà, H. & Krings, M. 2015. Sporophyll organisation in the Triassic isoetalean lycopsid *Lepacyclotes* (formerly *Annalepis*) *zeilleri* from Germany. *Paläontologische Zeitschrift*, 89(3): 303–311.
- Lacerda, M.B., Schultz, C.L. & Bertoni-Machado, C. 2015. First ‘Rauisuchian’ archosaur (Pseudosuchia, Loricata) for the Middle Triassic *Santacruzodon* Assemblage Zone (Santa Maria Supersequence), Rio Grande do Sul State, Brazil. *PLoS ONE*, 10(2): e0118563. doi:10.1371/journal.pone.0118563.
- Lahr, D.J.G., Bosak, T., Lara, E. & Mitchell, E.A.D. 2015. The Phanerozoic diversification of silica-cycling testate amoebae and its possible links to changes in terrestrial ecosystems. *PeerJ* 3: e1234 <https://doi.org/10.7717/peerj.1234>.
- Laicheng Miao, Fuqin Zhang, Mingshuai Zhu & Dunyi Liu. 2015. Zircon SHRIMP U-Pb dating of metamorphic complexes in the conjunction of the Greater and Lesser Xing'an ranges, NE China: timing of formation and metamorphism and tectonic implications. *Journal of Asian Earth Sciences*, 114: 634–648.
- Lara, M.B., Bashkuev, A. & Bo Wang. 2015. *Argentinopanorpa miguezii* gen. et sp. nov.: first record of Triassic Mecoptera (Permochoristidae) from the Cuyo Basin (Mendoza, Argentina). *Alcheringa*, 39(2): 175–180.
- Large, R.R., Halpin, J.A., Lounejeva, E., Danyushevsky, L.V., Maslennikov, V.V., Gregory, D., Sack, P.J., Haines, P.W., Long, J.A., Makoundi, C. & Stepanov, A.S. 2015. Cycles of nutrient trace elements in the Phanerozoic ocean. *Gondwana Geology*, 28(4): 1282–1293.
- Laurin, M. 2015. Editorial: Stratigraphic range, identification of fragmentary fossils, and the Permo/Triassic crisis. *Comptes Rendus Palevol*, 14(5): 343–345.
- Laurita, S., Prosser, G., Rizzo, G., Langone, A., Tiepolo, M. & Laurita, A. 2015. Geochronological study of zircons from continental crust rocks in the Frido Unit (southern Apennines). *International Journal of Earth Sciences*, 104(1): 179–203.
- Lautenschlager, S. & Rauhut, O.W.M. 2015. Osteology of *Rauisuchus tiradentes* from the Late Triassic (Carnian) Santa Maria Formation of Brazil, and its implications for rauisuchid anatomy and phylogeny. *Zoological Journal of the Linnean Society*, 173(1): 59–91.
- Le-tian Ma, Da-yong Jiang, Rieppel, O., Motani, R. & Tintori, A. 2015. A new pistosauroid (Reptilia, Sauropterygia) from the late Ladinian Xingyi marine reptile level, southwestern China. *Journal of Vertebrate Paleontology*, 35(1): e881832 (6 pp.). DOI: 10.1080/02724634.2014.881832.
- Lee, J.R., Woods, M.A. & Moorlock, B.S.P. 2015. *British Regional Geology: East Anglia*. Keyworth, Nottingham: British Geological Survey, xii+272pp.
- Lehrmann, D.J., Bentz, J.M., Wood, T., Goers, A., Dhillon, R., Akin, S., Xiaowei Li, Payne, J.L., Kelley, B.M., Meyer, K.M., Schaal, E.K., Suarez, M.B., Meiyi Yu, Yanjiao Qin, Rongxi Li, Minzoni, M. & Henderson, C.M. 2015. Environmental controls on the genesis of marine microbialites and dissolution surface associated with the end-Permian mass extinction: new sections and observations from the Nanpanjiang Basin, South China. *Palaeos*, 30(7): 529–552.
- Lehrmann, D.J., Chaikin, D.H., Enos, P., Minzoni, M., Payne, J.L., Meiyi Yu, Goers, A., Wood T., Richter, P., Kelley, B.M., Xiaowei Li, Yanjiao Qin, Lingyun Liu & Gang Lu. 2015. Patterns of basin fill in Triassic turbidites of the Nanpanjiang basin: implications for regional tectonics and impacts on carbonate-platform evolution. *Basin Research*, 27(5): 587–612.
- Lehrmann, D.J., Stepchinski, L., Altiner, D., Orchard, M.J., Montgomery, P., Enos, P., Ellwood, B.B., Bowring, S.A., Ramezani, J., Hongmei Wang, Jiayong Wei, Meiyi Yu, Griffiths, J.D., Minzoni, M., Schaal, E.K., Xiaowei Li, Meyer, K.M. & Payne, J.L. 2015. An integrated biostratigraphy (conodonts and foraminifers) and chronostratigraphy (paleomagnetic reversals, magnetic susceptibility, elemental chemistry, carbon isotopes and geochronology) for the Permian–Upper Triassic strata of Guando section, Nanpanjiang Basin, south China. *Journal of Asian Earth Sciences*, 108: 117–135.
- Lei Jiang, Chunfang Cai, Worden, R.H., Kaikai Li, Lei Xiang, Wuelei Chu, Anjiang Shen & Wenjun Li. 2015. Rare earth element and yttrium (REY) geochemistry in carbonate reservoirs during deep burial diagenesis: implications for REY mobility during thermochemical sulfate reduction. *Chemical Geology*, 415: 87–101.
- Lei Zhao, Xiwen Zhou, Mingguo Zhai, Santosh, M. & Yuansheng Geng. 2015. Zircon U-Th-Pb-Hf isotopes of the basement rocks in northeastern Cathaysia block, South China: implications for Phanerozoic multiple metamorphic reworking of a Paleoproterozoic terrane. *Gondwana Geology*, 28(1): 246–261.
- Li Chaoliu, Li Changxi, Hou Yuting, Shi Yujiang, Wang Chengsheng, Hu Falong & Liu Mi. 2015. Well logging evaluation of Triassic Chang 7 Member tight reservoirs, Yanchang Formation, Ordos Basin, NW China. *Petroleum Exploration and Development*, 42(5): 667–673.
- Li Fulai, Wang Shitou, Miao Shunde, Yang Junxia, Xu Zhiyao & Li Wenshuai. 2015. Characteristics of low permeability

- reservoirs and main controlling factors of high quality reservoirs of Chang 6₃ Member in Huqing area. Journal of Jilin University (Earth Science Edition), 45(6): 1580–1588.
- Li Haibo, Guo Hekun, Yang Zhengming & Wang Xuewu. 2015. Tight oil occurrence space of Triassic Chang 7 Member in northern Shaanxi area, Ordos Basin, NW China. Petroleum Exploration and Development, 42(2): 434–438.
- Li-Jun Zhang, Ruo-Ying Fan & Yi-Ming Gong. 2015. *Zoophycos* macroevolution since 541 Ma. Nature Scientific Reports, 5(14954), doi:10.1038/srep14954.
- Li Kan, Guo Anlin, Gao Chunyun & Li Xinghui. 2015. A tentative discussion on the source area of the Late Triassic Liuyehe basin in North Qin-Ling mountains and its relationship with the Ordos basin: evidence from LA-ICP-MS U-Pb dating of detrital zircons. Geological Bulletin of China, 34(8): 1426–1437.
- Li-Qiang Yang, Jun Deng, Dilik, Y., Kun-Feng Qiu, Xing-Zhing Ji, Nan Li, Taylor, R.D. & Jin-Yuan Yu. 2015. Structure, geochronology, and petrogenesis of the Late Triassic Puziba granitoid dikes in the Mianlue suture zone, Qinling orogen, China. Geological Society of America Bulletin, 127(11-12): 1831–1854.
- Li-Qiang Yang, Jun Deng, Kun-Feng Qiu, Xing-Zhong Ji, Santosh, M., Kai-Rui Song, Yao-Hui Song, Jian-Zhen Geng, Chuang Zhang & Bei Hua. 2015. Magma mixing and crust-mantle interaction in the Triassic monzogranites of Bikou Terrane, central China: constraints from petrology, geochemistry, and zircon U-Pb-Hf isotopic systematics. Journal of Asian Earth Sciences, 98: 320–341.
- Li Rong, Hu Zhongqui, Hu Mingyi, Meng Lingtao, Liu Dongxi, Liao Yisha & Pu Junwie. 2015. Reservoir characteristics and main control factors of the Feixiangguan Formation in the Qilixia-Yunanchang area, eastern Sichuan Basin. Geological Journal of China Universities, 2015 (4): 642–652.
- Li Ruibao, Pei Xianzhi, Li Zuochen, Pei Lei, Chen You, Liu Chengjun, Chen Guochao & Liu Tujie. 2015. The depositional sequence and prototype basin for Lower Triassic Hongshuichuan Formation in the eastern segment of East Kunlun Mountains. Geological Bulletin of China, 34(12): 2302–2314.
- Li Tian, Bottjer, D.J., Jinnan Tong, Fei Li, Tinglu Yang, Haijun Song, Huyue Song & Lei Liang. 2015. Distribution and size variation of ooids in the aftermath of the Permian-Triassic mass extinction. Palaios, 30(9): 714–727.
- Li Tian, Jinnan Tong, Bottjer, D., Daoliang Chu, Lei Liang, Huyue Song & Haijun Song. 2015. Rapid carbonate depositional changes following the Permian-Triassic mass extinction: sedimentary evidence from South China. Journal of Earth Science, 26(2): 166–180.
- Li Yong, Zhang Wei-qiao, Su Jin-bao, Li Jian-hua & Dong Shu-wen. 2015. Zircon U-Pb dating of Dayishan and Tashan plutons in Hunan Province and its tectonic implications. Acta Geoscientica Sinica, 2015(3): 302–311.
- Li-Yun Zhang, Lin Ding, Pullen, A. & Kapp, P. 2015. Reply to comment by W. Liu and B. Xia on “Age and geochemistry of western Hoh-Xil-Songpan-Ganzi granitoids, northern Tibet: implications for the Mesozoic closure of the Paleo-Tethys ocean”. Lithos, 212-215: 457–461.
- Li Zhongxing, Qu Xuefeng, Liu Wantao, Lei Qihong, Sun Hualing & He Yuan. 2015. Development modes of Triassic Yanchang Formation Chang 7 Member tight oil in Ordos Basin, NW China. Petroleum Exploration and Development, 42(2): 241–246.
- Lianting Jiang, Guoneng Chen, Grapes, R. & Zhuolun Peng. 2015. Thermal origin of continental red beds in SE China: an experiment study. Journal of Asian Earth Sciences, 101: 14–19.
- Lifeng Meng, Zheng-Xiang Li, Hanlin Chen, Xian-Hua Li & Chen Zhu. 2015. Detrital zircon U-Pb geochronology, Hf isotopes and geochemistry constraints on crustal growth and Mesozoic tectonics of southeastern China. Journal of Asian Earth Sciences, 105: 286–299.
- Lin Tong, Liu Shugen, Song Jinmin, Li Zhiwu, Bai Zhiqiang & Peng Hanlin. 2015. The sedimentary characteristics and geological significances of carbonate tempestites near the boundary of Late Permian to Early Triassic at Nanjiang section, north of Sichuan Basin. Acta Sedimentologica Sinica, 33(2015:5): 899–908.
- Ling-Juan Mao, Zhen-Yu He, Ze-Ming Zhang, Klemd, R., Hua Xiang, Zuo-Lin Tian & Ke-Qing Zong. 2015. Origin and geodynamic significance of the early Mesozoic Weiya LP and HT granulites from the Chinese eastern Tianshan. Lithos, 239: 142–156.
- Lindström, S., Pedersen, G.K., van de Schootbrugge, B., Hansen, K.H., Kuhlmann, N., Thein, J., Petersen, H.I., Alwmark, C., Dybkjaer, K., Weibel, R., Erlström, M., Nielsen, L.H., Oschmann, W. & Tegner, C. 2015. Intense and widespread seismicity during the end-Triassic mass extinction due to emplacement of a large igneous province. Geology, 43(5): 387–390.
- Lisha Hu, Cawood, P.A., Yuansheng Du, Yajun Xu, Wangchun Xu & Hongwei Huang. 2015. Detrital records for Upper Permian-Lower Triassic succession in the Shiwandashan Basin, South China and implication for Permo-Triassic (Indosinian) orogeny. Journal of Asian Earth Sciences, 98: 152–166.
- Liu Bin, Ma Changqian, Zhang Xin, Guo Pan, Zhang Hang & Xiong Fuhsao. 2015. Geochronology and geochemistry of the Triassic mafic complexes from the Western Garzë-Litang ophiolitic mélange and implications for the melt evolution of a continental margin. Acta Geologica Sinica, 89(Supp. 2): 50–51.
- Liu Fen, Zhu Xiaomin, Li Yang, Xu Liming, Niu Xiaobing, Zhu Shifa, Liang Xiaowei, Xue Mengge & He Jingcong. 2015. Sedimentary characteristics and facies model of gravity flow deposits of Late Triassic Yanchang Formation in southwestern Ordos Basin, NW China. Petroleum Exploration and Development, 42(5): 633–645.
- Liu Fen, Zhu Xiaomin, Li Yang, Xu Liming, Zhu Shifa & Xue Mengge. 2015. Characteristics of the Late Triassic deep-water slope break belt in southwestern Ordos Basin and its control on sandbodies. Geological Journal of China Universities, 2015 (4): 674–684.
- Liu Geyun, Huang Chenjun, Zhou Xingui, Zhang Linyan & Pan Yun. 2015. Quantitative evaluation of fracture development

- in Triassic Yanchang Formation, Ordos Basin, NW China. *Petroleum Exploration and Development*, 42(4): 486–496.
- Liu, J. 2015. Discussion of 'The Triassic U-Pb age for the aquatic long-necked protorosaur of Guizhou, China'. *Geological Magazine*, 152(3): 572–573.
- Liu Jun. 2015. New discoveries from the *Sinokanneymeyeria – Shansisuchus* Assemblage Zone: 1. *Kanneymeyeriformes* from Shanxi, China. *Vertebrata PalAsiatica*, 53 (1): 16–28.
- Liu Sibing, Shen Zhongmin, Lü Zhengxiang, Song Rongcai & Wang Peng. 2015. Contributing factor divergence analysis of relatively high quality reservoir of Upper Triassic in the 2nd and 4th Member of Xujiahe Formation of Xinchang gas field in west Sichuan. *Journal of Jilin University (Earth Science Edition)*, 45(4): 993–1101.
- Liu Wenbin, Shen Kaihong, Liao Shijin, Cheng Xingguo, Chen Junkui, Li Wanzhong & Huo Qinghua. 2015. SHRIMP zircon U-Pb age of Ruyang Group subvolcanic rocks on the southern margin of the North China Craton and its geological significance. *Geological Bulletin of China*, 34(8): 1517–1525.
- Liu Xue-qing, Lin Wen-bin, Rieppel, O., Sun Zuo-yu, Li Zhi-guang, Lu Hao & Jiang Da-yong. 2015. A new specimen of *Diandongosaurus acutidentatus* (Sauropterygia) from the Middle Triassic of Yunnan, China. *Vertebrata Palasiatica*, 53(4): 281–290.
- Liu Zhao-sheng, Li Li-qin & Wang Yongdong. 2015. Late Triassic spore-pollen assemblage from the Xujiahe Formation in Hechuan of Chongqing, China. *Acta Palaeontologica Sinica*, 2015(3): 279–304.
- Liu Zhaosheng, Li Li-qin & Wang Yong-dong. 2015. Late Triassic spore-pollen assemblage from Xuanhan of Sichuan, China. *Acta Micropalaeontologica Sinica*, 2015(1): 43–62.
- Lockwood, J., Bagshaw, C. & Pond, S. 2015. Vertebrate tracks from the Triassic Helsby Sandstone Formation at Burton on Trent, Staffordshire. *Mercian Geologist*, 18(4): 234–242.
- Lomax, D.R. & Gibson, B.J.A. 2015. The first definitive occurrence of *Ichthyosaurus* and *Temnodontosaurus* (Reptilia: Ichthyosauria) in Nottinghamshire, England, and a review of ichthyosaur specimens from the county. *Proceedings of the Geologists' Association*, 126(4-5): 554–563.
- López-Mir, B., Muñoz, J.A. & García-Senz, J. 2015. Extensional salt tectonics in the partially inverted Cotiella post-rift basin (south-central Pyrenees): structure and evolution. *International Journal of Earth Sciences*, 104(2): 419–434.
- Lovelace, D.M. & Doebeert, A.C. 2015. A new age constraint for the Early Triassic Alcova Limestone (Chugwater Group), Wyoming. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 424: 1–5.
- Löwen, K., Bröcker, M. & Berndt, J. 2015. Depositional ages of clastic metasediments from Samos and Syros, Greece: results of a detrital zircon study. *International Journal of Earth Sciences*, 104(1): 205–220.
- Lu Ning, Xie Xiao Ping, Wang Yong Dong & Li Li Qin. 2015. The analysis of sedimentary environmental evolution of the T_{3x}/T_{2l} boundary transition in Qiliaxia of Xuanhan, Sichuan. *Acta Sedimentologica Sinica*, 2015(6): 1149–1158.
- Lu Shi, Changqing Zhang, Wengui Yao, Juan Li, Fanghua Cui, Feng Gao, Yuan Gao, Jiulei Xu & Xiaomeng Han. 2015. Geochronological framework and tectonic setting of the granitic magmatism in the Chaihe-Moguqi region, central Great Xing'an Range, China. *Journal of Asian Earth Sciences*, 113(1): 443–453.
- Lucas, S.G. 2015. Age and correlation of Late Triassic tetrapods from southern Poland. *Annales Societatis Geologorum Poloniae*, 85(4): 627–635.
- Lucas, S.G. 2015. Vertebrate paleontology in New Mexico – a brief history. *New Mexico Museum of Natural History & Science Bulletin*, 68: 1–7.
- Lucas, S.G., Cantrell, M.K., Suazo, T.L. & Estep, J.W. 2015. Carnian (Late Triassic ammonoids from El Antimonio, Sonora, Mexico. *New Mexico Museum of Natural History and Science Bulletin*, 67: 189–204.
- Lucas, S.G., Krainer, K. & Vachard, D. 2015. The Permian-Triassic stratigraphic section at the Sandia Mountain Natural History Center, Bernalillo County, New Mexico. *New Mexico Museum of Natural History & Science Bulletin*, 67: 205–215.
- Lucas, S.G. & Tanner, L.H. 2015. End-Triassic nonmarine biotic events. *Journal of Palaeogeography*, 4(4): 331–348.
- Lugović, B., Slovenec, D., Schuster, R., Schwarz, W.H. & Horvat, M. 2015. Petrology, geochemistry and tectono-magmatic affinity of gabbroic olistoliths from the ophiolite mélange in the NW Dinaric-Vardar ophiolite zone (Mts. Kalnik and Ivanščica, North Croatia). *Geologia Croatica*, 68(1): 25–49.
- Lukoczki, G., Budai, T. & Németh, T. 2015. Sideritic-kaolinitic green clay layers in the Mecsek Mountains (SW Hungary): indicators of Middle Triassic volcanism — myth or reality? *Central European Geology*, 58(4): 334–355.
- Ma Guo-liang. 2015. Hydrocarbon accumulation in the Yanchang Formation, Majitan Oil Field, Ordos Basin. *Sedimentary Geology and Tethyan Geology*, 35(2015:2): 35–44.
- Ma Yao, Li Wenhui, Liu Zhe, Huang Haiyu, Guo Yixuan & Li Ying. 2015. Sedimentary characteristics and petroleum geological implications of the first lacustrine transgression period of Yanchang Formation in Zhiping-Ansai area of Ordos Basin. *Geological Bulletin of China*, 34(5): 972–982.
- Madani-Kivi, M. & Zulauf, G. 2015. Tectono-sedimentary evolution of the Permian-Triassic extension event in the Zagros basin (Iran): results from analogue modelling. *Journal of the Geological Society*, 172(2): 237–250.
- Maekawa, T., Komatsu, T., Shigeta, Y., Dang Tran Huyen & Dinh Cong Tien. 2015. First occurrence of Early Triassic conodonts from the Lang Son Formation, northeastern Vietnam. *Paleontological Research*, 19(4): 312–320.
- Maisch, M.W. 2015. A juvenile specimen of *Anshunsaurus huangguoshenensis* LIU, 1999 (Diapsida: Thallatosauria) from the Upper Triassic of China. *Palaeodiversity*, 8: 71–87.
- Maithel, S.A., Garner, P.A. & Whitmore, J.H. 2015. Preliminary assessment of the petrology of the Hopeman Sandstone (Permo-Triassic), Moray Firth Basin, Scotland. *Scottish Journal of Geology*, 51(2): 177–184.
- Mandal, S.J., Fellin, M.G., Burg, J.-P. & Maden, P. 2015. Phanerozoic surface history of southern Peninsular India from apatite (U-Th-Sm)/He data. *Geochemistry, Geophysics, Geosystems*, 16(10): 3626–3648.

- Mannion, P.D., Benson, R.B.J., Carrano, M.T., Tennant, J.P., Judd, J. & Butler, R.J. 2015. Climate constrains the evolutionary history and biodiversity of crocodylians. *Nature Communications*, 6, Article 8438. DOI: 10.1038/ncomms9438.
- Marcé-Nogué, J., Fortuny, J., De Esteban-Trivigno, S., Sánchez, M., Gil, L. & Galobart, À. 2015. 3D computational mechanics elucidate the evolutionary implications of orbit position and size diversity of early amphibians. *PLoS ONE*, 10(6): e0131320. doi:10.1371/journal.pone.0131320.
- Marek, R. 2015. Ichthyosaurs. *Palaeontology Online*, 5, article 8, 1–5.
- Marfil, R., La Iglesia, A., Herrero, M.J., Scherer, M. & Delgado, A. 2015. Clay mineral occurrence and burial transformations: reservoir potential of the Permo-Triassic sediments of the Iberian Range. *Basin Research*, 27(3): 295–309.
- Maron, M., Rigo, M., Bertinelli, A., Katz, M.E., Godfrey, L., Zaffani, M. & Muttoni, G. 2015. Magnetostratigraphy, biostratigraphy, and chemostratigraphy of the Pignola-Abriola section: new constraints for the Norian-Rhaetian boundary. *Geological Society of America Bulletin*, 127(7-8): 962–974.
- Marshall, C.R. 2015. How stable are food webs during a mass extinction? *Science*, 350(6256): 38–39.
- Marshall Brown, C., VanBuren, C.S., Larson, D.W., Brink, K.S., Campione, N.E., Vavrek, M.J. & Evans, D.C. 2015. Tooth counts through growth in diapsid reptiles: implications for interpreting individual and size-related variation in the fossil record. *Journal of Anatomy*, 226(4): 322–333.
- Martindale, R.C., Corsetti, F.A., James, N.P. & Bottjer, D.J. 2015. Paleogeographic trends in Late Triassic reef ecology from northeastern Panthalassa. *Earth-Science Reviews*, 142: 18–37.
- Martínez, R.N., Apaldetti, C., Correa, G., Colombi, C.E., Fernandez, E., Santi Malnis, P., Praderio, A., Abélin, D., Benegas, L.G., Aguilar Comeo, A. & Alcober, O.A. 2015. A new Late Triassic vertebrate assemblage from northwestern Argentina. *Ameghiniana*, 52(4): 379–390.
- Martínez del Olmo, W., Motis, K. & Martín, D. 2015. The role of the Triassic diapirism in the structure of the Prebetic zone (SE Spain). *Revista de la Sociedad Geológica de España*, 28(1): 3–24.
- Martínez-Pérez, C., Cascales-Miñana, B., Plasencia, P. & Botella, H. 2015. Exploring the major depletions of conodont diversity during the Triassic. *Historical Biology*, 27(5): 503–507.
- Martínez-Pérez, C., Plasencia, P. & Márquez-Aliaga, A. 2015. Microstructure of the Triassic conodonts *Pseudofurnishius murcianus* van den Boogaard: functional implications. *Spanish Journal of Palaeontology*, 30(1): 109–116.
- Maxwell, E.E., Romano, C., Feixiang Wu & Furrer, H. 2015. Two new species of *Saurichthys* (Actinopterygii: Saurichthyidae) from the Middle Triassic of Monte San Giorgio, Switzerland, with implications for character evolution in the genus. *Zoological Journal of the Linnean Society*, 173(4): 887–912.
- Mayall, M.J. & Wright, V.P. 2015. Comment on Ibarra et al. microfacies of the Coatham Marble: a tubestome microbialite from the Upper Triassic, southwestern Britain. *Palaios*, 30(11): 802–805.
- Mayrhofer, S. & Lukeneder, A. 2015. Susceptibility and radiometry data used for stratigraphic correlations: case study on Upper Triassic beds in Turkey. *Geological Society, London, Special Publications*, 414: 257–275.
- Mazza, M. & Krystyn, L. 2015. The revised Upper Triassic condont record of the Tethys: a new step towards a better definition of the condont bioevents around the base of the Norian stage. *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 21: 243.
- Mazza, M. & Martínez-Pérez, C. 2015. Unravelling conodont (Conodonta) ontogenetic processes in the Late Triassic through growth series reconstructions and X-ray microtomography. *Bollettino della Società Paleontologica Italiana*, 54(3): 161–186.
- McCarthy, A. & Müntener, O. 2015. Ancient depletion and mantle heterogeneity: revisiting the Permian-Jurassic paradox of Alpine peridotites. *Geology*, 43(3): 255–258.
- McCobb, L. 2015. Behind the scenes at the Museum: Palaeontology in Amgueddfa Cymru – National Museum of Wales, UK. *The Palaeontological Association Newsletter*, 90: 25–29.
- McCormack, J.M., Bahr, A., Gerdes, A., Tütken, T. & Prinz-Grimm, P. 2015. Preservation of successive diagenetic stages in Middle Triassic bonebeds: evidence from in situ trace element and strontium isotope analysis of vertebrate fossils. *Chemical Geology*, 410: 108–123.
- McHugh, J.B. 2015. Paleohistology of *Micropholis stowi* (Dissorophoidea) and *Lydekkerina huxleyi* (Lydekkerinidae) humeri from the Karoo Basin of South Africa, and implications for bone microstructure evolution in temnospondyl amphibians. *Journal of Vertebrate Paleontology*, 35(1): e902845 (9 pp.). DOI: 10.1080/02724634.2014.902845.
- McKay, M.P., Weislogel, A.L., Fildani, A., Brunt, R.L., Hodgson, D.M. & Flint, S.S. 2015. U-Pb zircon tuff geochronology from the Karoo Basin, South Africa: implications of zircon recycling on stratigraphic age controls. *International Geology Review*, 57(4): 393–410.
- McPhee, B.W., Choiniere, J.N., Yates, A.M. & Viglietti, P.A. 2015. A second species of *Eucnemesaurus* Van Hopen, 1920 (Dinosauria, Sauropodomorpha): new information on the diversity and evolution of the sauropodomorph fauna of South Africa's lower Elliot Formation (latest Triassic). *Journal of Vertebrate Paleontology*, 35(5): e980504 (24 pp.). DOI: 10.1080/02724634.2015.892011.980504.
- Medici, G., Boulesteix, K., Mountney, N.P., West, L.J. & Odling, N.E. 2015. Palaeoenvironment of braided fluvial systems in different tectonic realms of the Triassic Sherwood Sandstone Group, UK. *Sedimentary Geology*, 329: 188–210.
- Mefteh, S., Essefi, E., Yaich, C., Jamoussi, F. & Medhioub, M. 2015. Correlation between magnetic susceptibility and mineral species along NWA-1 well, southern Tunisia: an overlap of the depositional environment, the climate, and the diagenesis. *Journal of African Earth Sciences*, 103: 89–101.
- Mei-Feng Shi, Fang-Cheng Lin, Wen-Yu Fan, Qi Deng, Feng Cong, My-Dung Tran, Hua-Ping Zhu & Hong Wang. 2015. Zircon U-Pb ages and geochemistry of granitoids in the Truong Son terrane, Vietnam: tectonic and metallogenetic implications. *Journal of Asian Earth Sciences*, 101: 101–120.

- Meijia Song, Liangshu Shu, Santosh, M. & Jinyi Li. 2015. Late Early Paleozoic and Early Mesozoic intracontinental orogeny in the South China Craton: geochronological and geochemical evidence. *Lithos*, 232: 360–374.
- Meiljison, A., Bialik, O.M. & Benjamini, C. 2015. Stromatolitic biotic systems in the mid-Triassic of Israel – a product of stress on an epicontinental margin. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 440: 696–711.
- Melchor, R.N. 2015. Application of vertebrate trace fossils to palaeoenvironmental analysis. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 439: 79–96.
- Melo, T.P., Abdala, F. & Soares, M.B. 2015. The Malagasy Cynodont *Menadon besairiei* (Cynodontia; Traversodontidae) in the Middle–Upper Triassic of Brazil. *Journal of Vertebrate Paleontology*, 35(6): e1002562 (13 pp.). DOI: 10.1080/02724634.2014.1002562.
- Meng Wang, Jinjiang Zhang & Kai Liu. 2015. Continuous denudation and pediplanation of the Chinese Western Tianshan orogen during Triassic to Middle Jurassic: integrated evidence from detrital zircon age and heavy mineral chemical data. *Journal of Asian Earth Sciences*, 113(1): 310–324.
- Metcalfe, I., Crowley, J.L., Nicoll, R.S. & Schmitz, M. 2015. High-precision U-Pb-CA-TIMS calibration of Middle Permian to Lower Triassic sequences, mass extinction and extreme climate-change in eastern Australian Gondwana. *Gondwana Geology*, 28(1): 61–81.
- Mette, W., Honigstein, A. & Crasquin, S. 2015. Deep-water ostracods from the Middle Anisian (Reifling Formation) of the Northern Calcareous Alps (Austria). *Journal of Micropalaeontology*, 34(1): 71–91.
- Mette, W., Thibault, N. & Korte, C. 2015. Benthic microfossils, geochemistry and cyclicity of Rhaetian deep neritic to basinal sediments of the Northern Calcareous Alps. *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 21: 248.
- Michálík, J., Lintnerová, O. & Onoue, T. 2015. Triassic/Jurassic boundary change record in the West Carpathian sections. *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 21: 249.
- Mikami, T., Ishida, K., Sato, H., Onoue, T. & Suzuki, H. 2015. The base-Jurassic Global Boundary Stratotype Section and Point (GSSP) at Kujoch, Tyrol, Austria. *Journal of the Geological Society of Japan*, 121(3): I–II.
- Minghui Yang, Liang Li, Jin Zhou, Huichong Jia, Xiao Sun, Xiaoyan Qu, Duo Zhou, Ting Gong & Chao Ding. 2015. Mesozoic structural evolution of the Hangjinqi area in the northern Ordos Basin, North China. *Marine and Petroleum Geology*, 66: 695–710.
- Mingzhen Zhang, Liming Ji, Yuandong Wu & Cong He. 2015. Palynofacies and geochemical analysis of the Triassic Yanchang Formation, Ordos Basin: implications for hydrocarbon generation potential and the palaeoenvironment of continental source rocks. *International Journal of Coal Geology*, 152(B): 159–176.
- Minzoni, M., Lehrmann, D.J., Dezoeten, E., Enos, P., Montgomery, P., Berry, A., Yanjiao Qin, Yu Meiyi, Ellwood, B.B. & Payne, J.L. 2015. Drowning of the Triassic Yangtze Platform, South China, by tectonic subsidence into toxic deep waters of an anoxic basin. *Journal of Sedimentary Research*, 85(5): 419–444.
- Missoni, S., Gawlick, H.J., Bechtel, A., Bucur, II., Gratzer, R. & Prochaska, W. 2015. Mt. Jenner (Berchtesgaden, Germany) — a Late Triassic fore reef evolution of the Dachstein platform. *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 21: 256.
- Missoni, S., Gawlick, H.J., Onoue, T. & Prochaska, W. 2015. Lanthanides and microbes influence the deposition of the Late Triassic Hallstatt pelagics: Northern Calcareous Alps. *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 21: 257.
- Mohn, G., Karner, G.D., Manatschal, G. & Johnson, C.A. 2015. Structural and stratigraphic evolution of the Iberia-Newfoundland hyper-extended rifted margin: a quantitative modelling approach. *Geological Society, London, Special Publications*, 413: 53–89.
- Morel, E.M., Artabe, A.E., Ganuza, D.G., Bodnar, J., Correa, G. & Spalletti, L.A. 2015. The Triassic Carrizal Formation in the Marayes depocenter (San Juan Province, Argentina) paleobotany, taphonomy and biostratigraphy. *Revista de la Asociación Geológica Argentina*, 72(4): 456–469.
- Mørk, A. 2015. 6 - 7. Triassic. In: Dallmann, W.K. (ed.) *Geoscience Atlas of Svalbard*. Norsk Polarinstitutt, Report Series No. 148: 114–117.
- Morkovin, B.I. 2015. On the development of surface ornamentation of skull bones in the ontogeny of Early Triassic benthosuchids (Amphibia, Temnospondyli). *Paleontological Journal*, 49(1): 57–69.
- Mortimer, N., Turnbull, R.E., Palin, J.M., Tulloch, A.J., Rollet, N. & Hasimoto, T. 2015. Triassic–Jurassic granites of the Lord Howe Rise, northern Zealandia. *Australian Journal of Earth Sciences*, 62(6): 735–742.
- Moser, M. & Piros, O. 2015. Neue biostratigraphische und lithostratigraphische daten aus den niederösterreichischen Kalkvorbergen (Lassing, Göstling, Puchenstuben). *Jahrbuch der Geologische Bundesanstalt Wien*, 155(1–4): 217–233.
- Moser, M. & Piros, O. 2015. Eine stratigraphische neugliederung der Mitteltrias-schichtfolge am Schwarzenberg bei Türrnitz (Niederösterreich). *GeoAlp*, 12: 53–58.
- Moser, M. & Tanzberger, A. 2015. Mikrofazies und Stratigraphie des Gamssteines (Palfau, Steiermark). *Jahrbuch der Geologische Bundesanstalt Wien*, 155(1–4): 235–263.
- Motani, R., Da-yong Jiang, Rieppel, O., Yi-fan Xue & Tintori, A. 2015. Adult sex ratio, sexual dimorphism and sexual selection in a Mesozoic reptile. *Proceedings of the Royal Society of London, B*, 282(1815). 20151658; DOI: 10.1098/rspb.2015.1658.
- Motani, R., Da-yong Jiang, Guan-bao Chen, Tintori, A. & Rieppel, O. 2015. A basal ichthyosauriform with a short snout from the Lower Triassic of China. *Nature*, 517(7535): 485–488.
- Motani, R., Da-yong Jiang, Tintori, A., Rieppel, O., Guan-bao Chen & Hailu You. 2015. Status of *Chaothusaurus chaoxianensis* (Chen, 1985). *Journal of Vertebrate Paleontology*, 35(1): e892011 (8 pp.). DOI: 10.1080/02724634.2014.892011.

- Motani, R., Da-yong Jiang, Tintori, A., Rieppel, O., Guan-bao Chen & Hailu You. 2015. First evidence of centralia in Ichthyopterygia reiterating bias from paedomorphic characters on marine reptile phylogenetic reconstruction. *Journal of Vertebrate Paleontology*, 35(4): e.948547 (6 pp.). DOI: 10.1080/02724634.2014.948547.
- Motani, R. & Wainwright, P.C. 2015. How warm is too warm for the life cycle of actinopterygian fishes? *Nature Scientific Reports*, 5(11597), doi:10.1038/srep11597.
- Motani, R., Xiao-hong Chen, Da-yong Jiang, Long Cheng, Tintori, A. & Rieppel, O. 2015. Lunge feeding in early marine reptiles and fast evolution of marine tetrapod feeding guilds. *Nature Scientific Reports*, 5(8900), doi:10.1038/srep08900.
- Mujal, E., Fortuny, J., Rodríguez-Salgado, P., Diviu, M., Oms, O. & Galobart, Á. 2015. First footprints occurrence from the Muschelkalk detrital unit of the Catalan Basin: 3D analyses and palaeoichnological implications. *Spanish Journal of Palaeontology*, 30(1): 97–108.
- Mukherjee, D. 2015. New insights from bone microanatomy of the Late Triassic *Hyperodapedon* (Archosauromorph, Rhynchosauria): implications for archosauromorph growth strategy. *Palaeontology*, 58(2): 313–339.
- Müller, R.T., Ismael de Araújo-Júnior, H., Aires, A.S.S., Roberto-da-Silva, L. & Dias-da-Silva, S. 2015. Biogenic control on the origin of a vertebrate monotypic accumulation from the Late Triassic of southern Brazil. *Geobios*, 48(4): 331–340.
- Müller, R.T., Stock da Rosa, Á.A., Roberto da Silva, L., Aires, A.S.S., Pacheco, C.P., Pavanatto, A.E.B. & Dias-da-Silva, S. 2015. Wachholz, a new exquisite dinosaur-bearing fossiliferous site from the Upper Triassic of southern Brazil. *Journal of South American Earth Sciences*, 61: 120–128.
- Murphy, P.J. & Moseley, F. 2015. Sediment-filled cavities in the Morecambe Bay karst (UK): examples from the Warton and Silverdale area. *Cave and Karst Science*, 42(3): 144–147.
- Murthy, S., Kavali, P.S. & Cerruti Bernades-de-Oliviera, M.E. 2015. Latest Permian palynomorphs from Jharia Coalfield, Damodar Basin, India and their potential for biostratigraphic correlation. *Revue de micropaléontologie*, 58(3): 167–184.
- Muttoni, G., Tartarotti, P., Chiari, M., Marieni, C., Rodelli, D., Dallanave, E. & Kirscher, U. 2015. Paleolatitudes of Late Triassic radiolarian cherts from Argolis, Greece: insights on the paleogeography of the western Tethys. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 417: 476–490.
- Naipauer, M., Tapia, F., Mescua, J. & Farías, M. 2015. Detrital and volcanic zircon U-Pb ages from southern Mendoza (Argentina): an insight on the source regions in the northern part of the Neuquén Basin. *Journal of South American Earth Sciences*, 64(2): 434–451.
- Naqishbandi, S.F., Jabbar, W.J. & Al-Juboury, A.I. 2015. Hydrocarbon potential and porosity types of the Geli Khana Formation (Middle Triassic), Northern Iraq. *Arabian Journal of Geosciences*, 8(2): 739–758.
- Narea, K., Peña, M., Bascuñán, S., Becerra, J., Deckart, I., Munizaga, F., Maksaev, V., Arriagada, C. & Roperch, P. 2015. Paleomagnetism of Permo-Triassic and Cretaceous rocks from the Antofagasta region, northern Chile. *Journal of South American Earth Sciences*, 64(2): 261–272.
- Naugolnykh, S.V. & Pronin, A.P. 2015. A new matoniaceous fern from the Upper Triassic of the Caspian Depression in the context of florogenetic processes of transition from the Paleozoic to the Mesozoic. *Paleontological Journal*, 49(3): 326–336.
- Nawrocki, J., Jerwuła, K., Stachowska, A. & Szulc, J. 2015. Magnetic polarity of Upper Triassic sediments of the Germanic Basin in Poland. *Annales Societatis Geologorum Poloniae*, 85(4): 663–674.
- Neenan, J.M., Chun Li, Rieppel, O. & Scheyer, T.M. 2015. The cranial anatomy of Chinese placodonts and the phylogeny of Placodontia (Diapsida: Sauropterygia). *Zoological Journal of the Linnean Society*, 175(2): 415–428.
- Nesbitt, S.J., Flynn, J.J., Pritchard, A.C., Parrish, J.M., Ranivoharimana, L. & Wyss, A.R. 2015. Postcranial osteology of *Azendhosaurus madagascarensis* (?Middle to Upper Triassic, Isalo Group, Madagascar) and its systematic position among stem archosaur reptiles. *Bulletin of the American Museum of Natural History*, 398:1–126.
- Nestell, G.P., Nestell, M.K., Ellwood, B.B., Wardlaw, B.R., Basu, A.R., Ghosh, N., Luu Thi Phuong Lan, Rowe, H.D., Hunt, A., Tomkin, J.H. & Ratcliffe, K.T. 2015. High influx of carbon in walls of agglutinated foraminifers during the Permian-Triassic transition in global oceans. *International Geology Review*, 57(4): 411–427.
- Nestell, M.K. & Blome, C.D. 2015. Some contrasting biostratigraphic links between the Baker and Olds Ferry terranes, eastern Oregon. *Micropaleontology*, 61(4–5): 389–417.
- Nie Lijun, Yu Hongbin, Zhang Jianze, Wang Cong, Li Dong & Li Yang, 2015. Zircons LA-ICP-MS U-Pb ages of the Lower Triassic Lujiatun Group and its geological significance in Jilin Province. *Journal of Jilin University (Earth Science Edition)*, 45(2): 453–470.
- Nicholson, D.B., Mayhew, P.J. & Ross, A.J. 2015. Changes to the fossil record of insects through fifteen years of discovery. *PLoS ONE*, 10(7): e0128554. doi:10.1371/journal.pone. e0128554.
- Nitsch, E. 2015. Der Lettenkeuper – Verbreitung, Alter, Paläogeographie. *Palaeodiversity*, Special Issue: 9–16.
- Nitsch, E. 2015. Lithostratigrapie des Lettenkeupers. *Palaeodiversity*, Special Issue: 24–40.
- Nitsch, E. 2015. Fazies und Ablagerungsräume des Lettenkeupers. *Palaeodiversity*, Special Issue: 285–322.
- Nitsch, E. & Hagdorn, H. 2015. Lettkehöhle, Lettenkeuper, Unterkeuper – vom Gesteinsnamen zum statigraphischen Begriff. *Palaeodiversity*, Special Issue: 17–23.
- Nordén, K.K., Duffin, C.J. & Benton, M.J. 2015. A marine vertebrate fauna from the Late Triassic of Somerset, and a review of British placodonts. *Proceedings of the Geologists' Association*, 126(4–5): 564–581.
- Nordt, L., Atchley, S. & Dworkin, S. 2015. Collapse of the Late Triassic megamonsoon in western equatorial Pangea, present-day American Southwest. *Geological Society of America Bulletin*, 127(11–12): 1798–1815.
- Noroozpour, H. & Rad, M.Y. 2015. A review on fossil findings of central Iran's Permo-Triassic deposits. *Open Journal of*

- Geology, 5(6): 383–386.
- Novellino, R., Prosser, G., Spiess, R., Viti, C., Agosta, F., Tavarnelli, E. & Bucci, F. 2015. Dynamic weakening along incipient low-angle normal faults in pelagic limestones (Southern Apennines, Italy). *Journal of the Geological Society, London*, 172(3): 283–286.
- Nuo Li, Yan-Jing Chen, Santosh, M. & Pirajno, F. 2015. Compositional polarity of Triassic granitoids in the Qinling Orogen, China: implication for termination of the northernmost paleo-Tethys. *Gondwana Research*, 27(1): 244–257.
- Nürnberg, S. & Aberhan, M. 2015. Interdependence of specialization and biodiversity in Phanerozoic marine invertebrates. *Nature Communications*, 6, Article 6602. DOI: 10.1038/ncomms7602.
- Ogg, J.G. 2015. The mysterious mid-Carnian “Wet Intermezzo” global event. *Journal of Earth Science*, 26(2): 181–191.
- Oh, C., Phillippe, M. & Kim, K. 2015. *Xenoxyylon* syncology and palaeoclimatic implications for the Mesozoic of Eurasia. *Acta Palaeontologica Polonica*, 60(1): 245–256.
- Okay, A.I., Altiner, D. & Kılıç, A.M. 2015. Triassic limestone, turbidites and serpentinite—the Cimmeride orogeny in the Central Pontides. *Geological Magazine*, 152(3): 460–479.
- Olieroor, H.K.H., Timms, N.E., Wellman, J.F., Corbel, S. & Wilkes, P.G. 2015. 3D structural and stratigraphic model of the Perth Basin, Western Australia: implications for sub-basin evolution. *Australian Journal of Earth Sciences*, 62(4): 447–467.
- Olivarius, M., Weibel, R., Hjuler, M.L., Kristensen, L., Mathiesen, A., Nielsen, L.H. & Kjøller, C. 2015. Diagenetic effects on porosity-permeability relationships in red beds of the Lower Triassic Bunter Sandstone Formation in the North German Basin. *Sedimentary Geology*, 321: 139–153.
- Omosanya, K.O., Johansen, S.E. & Harishidayat, D. 2015. Evolution and character of supra-salt faults in the easternmost Hammerfest Basin, SW Barents Sea. *Marine and Petroleum Geology*, 66: 1013–1028.
- Ondrejka, M., Broska, I. & Uher, P. 2015. The late magmatic to subsolidus T/O_2 evolution of the Lower Triassic A-type rhyolites (Silicic Superunit, Western Carpathians, Slovakia): Fe-Ti oxythermometry and petrological implications. *Acta Geologica Slovaca*, 7(1): 51–61.
- Onoue, T. & Sato, H. 2015. Accretion of extraterrestrial matter recorded in the Triassic and Jurassic bedded chert sequence, southwest Japan. *Journal of the Geological Society of Japan*, 121(3): 91–108.
- Otero, A., Krupandan, E., Pol, D., Chinsamy, A. & Choiniere, J. 2015. A new basal sauropodiform from South Africa and the phylogenetic relationships of basal sauropodomorphs. *Zoological Journal of the Linnean Society*, 174(3): 589–634. (Corrigendum, 2015: *Zoological Journal of the Linnean Society*, 175(1): 224).
- Ovtcharova, M., Goudemand, N., Hammer, Ø., Kuang Giudun, Cordey, F., Galleguti, T., Schaltegger, U. & Bucher, H. 2015. Developing a strategy for accurate definition of a geological boundary through radio-isotopic and biochronological dating: the Early-Middle Triassic boundary (South China). *Earth-Science Reviews*, 146: 65–76.
- Ozcelik, O., Altunsoy, M., Hokerek, S., Unal, N. & Kuscu, M. 2015. Organic facies characteristics of the Triassic Ispartaçay Formation, Antalya nappes, western Taurus, Turkey. *Procedia Earth and Planetary Science*, 15: 225–230.
- Ozsvárt, P., Moix, P. & Kozur, H.W. 2015. New Carnian (Upper Triassic) radiolarians from the Sorgun Ophiolitic Mélange, southern Turkey. *Neues Jahrbuch für Geologie und Paläontologie – Abhandlungen*, 277(3): 337–352.
- Padovano, M., Piccardo, G.B. & Vissers, R.L.M. 2015. Tectonic and magmatic evolution of the mantle lithosphere during the rifting stages of a fossil slow-ultraslow spreading basin: insights from the Erro-Tobbio peridotite (Voltri Massif, NW Italy). *Geological Society, London, Special Publications*, 413: 205–238.
- Page, K. 2015. A new high-resolution ammonite biochronology for the Hettangian Stage (lowest Jurassic) of North West Europe. *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 21: 283.
- Palandzhyan, S.A. & Hayasaka, Y. 2015. New data on early Mesozoic magmatism in the Pekulnei-Zolotogorsk Island Arc system (Far Northeastern Asia): SHRIMP U-Pb zircon dating of the Pekulnei Ridge plagiogranite. *Doklady Earth Sciences*, 464(1): 894–897.
- Pálfy, J., Zajzon, N., Bertalan, É. & Kovács, Z. 2015. A new chemostratigraphic marker of the Triassic-Jurassic boundary. *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 21: 286.
- Palladino, G. 2015. Determining the way-up of the Monte Facito Formation using new sedimentological data from the “La Cerchiara” succession, southern Apennines. *Italian Journal of Geosciences*, 134(1): 120–133.
- Pan Zhao, Faure, M., Yan Chen, Guanzhong Shi & Bei Xu. 2015. A new Triassic shortening-extrusion tectonic model for Central-Eastern Asia: structural, geochronological and paleomagnetic investigations in the Xilamulun Fault (North China). *Earth and Planetary Science Letters*, 426: 46–57.
- Paterson, N.W. & Mangerud, G. 2015. Late Triassic (Carnian-Rhaetian) palynology of Hopen, Svalbard. *Review of Palaeobotany and Palynology*, 220: 98–119.
- Pattemore, G.A., Rigby, J.F. & Playford, G. 2015. The Mesozoic megafossil genus *Linguifolium* Arber 1917. *Acta Palaeobotanica*, 55(2): 123–147.
- Pattemore, G.A., Rigby, J.F. & Playford, G. 2015. Triassic-Jurassic pteridosperms of Australasia: speciation, diversity and decline. *Boletín Geológico y Minero*, 126(4): 689–722.
- Peiping Song, Lin Ding, Zhenyu Li, Lippert, P.C., Tianshui Yang, Xixi Zhao, Jiajun Fu & Yahui Yue. 2015. Late Triassic paleolatitude of the Qiangtang Block: implications for the closure of the Paleo-Tethys Ocean. *Earth and Planetary Science Letters*, 424: 69–83.
- Peiyuan Chen, Xiucheng Tan, Huiting Yang, Ming Tang, Yiwei Jiang, Xiuju Jin & Yang Yu. 2015. Characteristics and genesis of the Feixianguan Formation oolithic shoal reservoir, Puguang gas field, Sichuan Basin, China. *Frontiers of Earth Sciences*, 9(1): 26–39.
- Péró, C., Velledits, F., Kovács, S. & Blau, J. 2015. The Middle

- Triassic post-drowning sequence in the Aggtelek Hills (Silica Nappe) and its Tethyan context – first description of the Raming Formation from Hungary. *Newsletters on Stratigraphy*, 48(1): 1–22.
- Perrier, V., Williams, M. & Siveter, D.J. 2015. The fossil record and palaeoenvironmental significance of marine arthropod zooplankton. *Earth-Science Reviews*, 146: 146–162.
- Peybernes, C., Chablais, J. & Martini, R. 2015. Upper Triassic (Ladinian?-Carnian) reef biota from the Sambosan Accretionary Complex, Shikoku, Japan. *Facies*, 61(3): DOI 10.1007/s10347-015-0446-4. (27pp).
- Peybernes, C., Martini, R. & Chablais, J. 2015. Reef evolution in the Panthalassa domain: new data from Upper Triassic reef limestone of the Sambosan Accretionary Complex, Japan. *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 21: 302.
- Peyravi, M., Rahimpour-Bonab, H. & Nader, F.H. 2015. Dolomitization and burial history of Lower Triassic carbonate reservoir-rocks in the Persian Gulf (Salman offshore field). *Carbonates and Evaporites*, 30(1): 25–43.
- Pham Trung Hieu, Yi-Zeng Yang, Do Quoc Binh, Thi Bich Thuy Nguyen, Le Tien Dung & Fukun Chen. 2015. Late Permian to Early Triassic crustal evolution pf the Kontum massif, central Vietnam: zircon U-Pb ages and geochemical and Nd-Hf isotopic composition of the Hai Van granitoid complex. *International Geology Review*, 57(15): 1877–1888.
- Philippe, M., Pacyna, G., Wawrzyniak, Z., Barbacka, M., Boka, K., Filipiak, P., Marynowski, L., Thévenard, F. & Uhl, D. 2015. News from an old wood – *Agathoxylon keuperianum* (Unger) nov. comb. in the Keuper of Poland and France. *Review of Palaeobotany and Palynology*, 221: 83–91.
- Piccardo, G. 2015. Passive rifting and continental splitting in the Jurassic Ligurian Tethys: the mantle perspective. *Geological Society, London, Special Publications*, 413: 239–267.
- Piñeiro, G., Ferigolo, J., Ribeiro, A.M. & Velozo, P. 2015. Reassessing the affinities of vertebral remains from the Permo-Triassic beds of Gondwana. *Comptes Rendus Palevol*, 14(5): 387–401.
- Pingping Li, Fang Hao, Baiqiao Zhang, Huayao Zou, Xinya Yu & Guangwei Wang. 2015. Heterogenous distribution of pyrobitumen attributable to oil cracking and its effect on carbonate reservoirs: Feixianguan Formation in the Jiannan gas field, China. *AAPG Bulletin*, 99(4): 763–789.
- Plasencia, P., Hirsch, F., Jingeng Sha & Márquez-Aliaga, A. 2015. Taxonomy and evolution of the Triassic conodont *Pseudofurnishius*. *Acta Palaeontologica Polonica*, 60(2): 385–394.
- Plotnick, R.E., Kenig, F. & Scott, A.C. 2015. Using the voids to fill the gaps: caves, time and stratigraphy. *Geological Society, London, Special Publications*, 404: 233–250
- Ponomarenko, A.G. 2015. New beetles (Insecta, Coleoptera) from the Nedubrovo locality, terminal Permian or basal Triassic of European Russia. *Paleontological Journal*, 49(1): 39–50.
- Ponomarenko, A.G., Prokin, A.A. & Bashkuev, A.S. 2015. Coptoclavid beetles (Insecta: Coleoptera: Adephaga) from the Triassic of Lower Franconia, Germany. *Paleontological Journal*, 49(12): 1334–1345.
- Popescu, D.A., Popescu, L.G., Popa, L.M. & Grădinaru, E. 2015. The Middle Anisian (Bithynian) foraminifera from North Dobrogean Orogen, Romania. *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 21: 307.
- Pott, C. & Axsmith, B.J. 2015. *Williamsonia carolinensis* sp. nov. and associated *Eoginkgoites* foliage from the Upper Triassic Pekin Formation, North Carolina: implications for early evolution in the Williamsoniaceae (Bennettiales). *International Journal of Plant Sciences*, 176(2): 174–185.
- Pott, C. & Launis, A. 2015. *Taeniopteris novomundensis* sp. nov. – “cycadophyte” foliage from the Carnian of Switzerland and Svalbard reconsidered: how to use *Taeniopteris*? *Neues Jahrbuch für Geologie und Paläontologie – Abhandlungen*, 275(1): 19–31.
- Powell, M.G., Moore, B.R. & Smith, T.J. 2015. Origination, extinction, invasion, and extirpation components of the brachiopod latitudinal biodiversity gradient through the Phanerozoic Eon. *Paleobiology*, 41(2): 330–341.
- Preto, F.A., Schultz, C.L. & Langer, M.C. 2015. New dinosaur remains from the Late Triassic of southern Brazil (Candelária Sequence, *Hyperodapedon* Assemblage Zone). *Alcheringa*, 39(2): 264–273.
- Preto, N., Breda, A., Dal Corso, J., Spötl, C., Zorzi, F. & Frisia, S. 2015. Primary dolomite in the Late Triassic Travenanzes Formation, Dolomites, northern Italy: facies control and possible bacterial influence. *Sedimentology*, 62(3): 697–716.
- Proches, Š., Ramdhani, S., Perera, S.J., Ali, J.R. & Geirola, S. 2015. Global hotspots in the present-day distribution of ancient animal and plant lineages. *Nature Scientific Reports*, 5(15457), doi:10.1038/srep15457.
- Price, R.C., Mortimer, N., Smith, I.E.M. & Maas, R. 2015. Whole rock geochemical reference data for Torlesse and Waipapa terranes, North Island, New Zealand. *New Zealand Journal of Geology and Geophysics*, 58(3): 213–228.
- Pritchard, A.C., Turner, A.H., Nesbitt, S.J., Irmis, R.B. & Smith, N.D. 2015. Late Triassic tanystropheids (Reptilia, Archosauromorphia) from northern New Mexico (Petrified Forest Member, Chinle Formation) and the biogeography, functional morphology, and evolution of Tanystropheidae. *Journal of Vertebrate Paleontology*, 35(2): e911186 (20 pp.). DOI: 10.1080/02724634.2014.911186.
- Qiang Li, Bin Xia, Jianfeng Li, Lianze Xia, Qiangtai Huang & Zhongyu Xia. 2015. Mineral chemistry and geochemistry of peridotites from the Zedang and Luobusa ophiolites, Tibet: implications for the evolution of the Neo-Tethys. *Journal of Earth Science*, 26(6): 893–910.
- Qing Li, Zaijing Jiang, Wenxuan Hu & Xuelian You. 2015. Origin of dolomite in the Middle Triassic Zhouchongcun Formation, central Lower Yangtze region, southeast China. *Carpathian Journal of Earth and Environmental Sciences*, 10(1): 89–100.
- Qing-Feng Ding, Fei Liu & Wei Yan. 2015. Zircon U-Pb geochronology and Hf isotopic constraints on the petrogenesis of Early Triassic granites in the Wulonggou area of the Eastern Kunlun Orogen, northwest China. *International Geology*

- Review, 57(13): 1735–1754.
- Qiuling Gao, Zhong-Qiang Chen, Ning Zhang, Griffin, W.L., Wencheng Xia, Guoqing Wang, Tengfei Jiang, Xuefei Xia & O'Reilly, S.Y. 2015. Ages, trace elements and Hf-isotopic compositions of zircons from claystones around the Permian-Triassic boundary in the Zunyi section, South China: implications for nature and tectonic setting of the volcanism. *Journal of Earth Science*, 26(6): 872–882.
- Quanfeng Wang, Yanfang Zhang & Xichun Wu. 2015. Triassic (Carnian) hexactinellid-thrombolite reef mounds and oolitic bank complex in NW Sichuan, China. *Carbonates and Evaporites*, 30(2): 187–205.
- Racki, G. & Szulc, J. 2015. The bone-bearing Upper Triassic of Silesia, southern Poland: integrated stratigraphy, facies and events – introductory remarks. *Annales Societatis Geologorum Poloniae*, 85(4): 553–555.
- Raine, J.I., Beu, A.G., Boyes, A.F., Campbell, H.J., Cooper, R.A., Crampton, J.S., Crundwell, M.P., Hollis, C.J., Morgans, H.E.G. & Mortimer, N. 2015. New Zealand Geological Timescale NZGT 2015/1. *New Zealand Journal of Geology and Geophysics*, 58(4): 398–403.
- Raven, R.J., Jell, P.A. & Knezour, R.A. 2015. *Edwa maryae* gen. et sp. nov. in the Norian Blackstone Formation of the Ipswich Basin – first Triassic spider (Mygalomorphae) from Australia. *Alcheringa*, 39(2): 259–263.
- Ray, S. 2015. A new Late Triassic traversodontid cynodont (Therapsida, Eucynodontia) from India. *Journal of Vertebrate Paleontology*, 35(3), e930472 (15 pp.). DOI: 10.1080/02724634.2014.930472.
- Rein, S. 2015. Erwiderung auf Urlichs vorstehende Entgegnung zu REIN (2014): *Germanonautilus* im Unteren Keuper (Trias, Erfurt-Formation) - von *Trematodiscus jugatonodosus* bis *Germanonautilus bidorsatus*. Semana (Veröffentlichungen des Naturhistorischen Museums Schleusingen), 30: 57–58.
- Ren-Xu Chen, Binghua Ding, Yong-Fei Zheng & Zhaochu Hu. 2015. Multiple episodes of anatexis in a collisional orogeny: zircon evidence from migmatite in the Dabei orogen. *Lithos*, 212–215: 247–265.
- Renesto, S. & Stockar, R. 2015. Prey content in a *Saurichthys* reveals the presence of advanced halecomorph fishes in the Middle Triassic of Monte San Giorgio. *Neues Jahrbuch für Geologie und Paläontologie – Abhandlungen*, 278(1): 95–107.
- Rensberger, J.M. & Martinez, R.N. 2015. Bone cells in birds show exceptional surface area, a characteristic tracing back to saurischian dinosaurs of the Late Triassic. *PLoS ONE*, 10(4): e0119083. doi:10.1371/journal.pone.0119083. [Correction: *PLoS ONE*, 10(5): e0127373. doi:10.1371/journal.pone.0127373].
- Richoz, S. & Krystyn, L. 2015. The Upper Triassic events recorded in platform and basin of the Austrian Alps. The Triassic/Jurassic GSSP and Norian/Rhaetian GSSP candidate. *Berichte der Geologischen Bundesanstalt*, Wien, 111: 75–136.
- Richoz, S., Krystyn, L., Galbrun, B., Boulila, S., Bartolini, A. & Gardin, S. 2015. Long-term oceanic stability and orbital control on carbon cycle prior to the Late Triassic mass-extinction. *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 21: 321.
- Ridd, M.F. 2015. East flank of the Sibumasu block in NW Thailand and Myanmar and its possible northward continuation into Yunnan: a review and suggested tectono-stratigraphic interpretation. *Journal of Asian Earth Sciences*, 104: 160–174.
- Rigaud, S., Vachard, D. & Martini, R. 2015. Agglutinated versus microgranular foraminifers: end of a paradigm? *Journal of Systematic Palaeontology*, 13(2): 75–95.
- Rigo, M., Bertinelli, A., Concheri, G., Gattolin, G., Godfrey, L., Katz, M., Maron, M., Mietto, P., Muttoni, G., Sprovieri, M., Stellin, F. & Zaffani, M. 2015. The Pignola-Abriola section (southern Pennines, Italy): a new candidate GSSP for the base of the Rhaetian Stage. *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 21: 324.
- Rigo, M., Zaffani, M., Mazza, M., Tripodo, A. & Di Stefano, P. 2015. The Pizzo Lupo section (Sicily, Italy): preliminary $\delta^{13}\text{C}_{\text{org}}$ around the Carnian/Norian boundary. *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 21: 325.
- Rinehart, L.F., Lucas, S.G. & Schoch, R.R. 2015. *Eocyclosaurus appetolatus*, a new cyclosaurid amphibian from the Middle Triassic (Perovkan) Moenkopi Formation of New Mexico, U.S.A. *Journal of Vertebrate Paleontology*, 35(3): e929140 (15 pp.). DOI: 10.1080/02724634.2014.929140.
- Rippington, S., Mazur, S. & Warner, J. 2015. The crustal architecture of the Faroe-Shetland Basin: insights from a newly merged gravity and magnetic dataset. *Geological Society, London, Special Publications*, 421: 169–196.
- Ritterbush, K.A., Rosas, S., Corsetti, F.A., Bottjer, D.J. & West, A.J. 2015. Andean sponges reveal long-term benthic ecosystem shifts following the end-Triassic mass extinction. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 420: 193–209.
- Robinson, A.C. 2015. Mesozoic tectonics of the Gondwanan terranes of the Pamir plateau. *Journal of Asian Earth Sciences*, 102: 170–179.
- Romo de Vivar Martínez, P.R. & Bento Soares, M. 2015. Dentary morphological variation in *Clevosaurus brasiliensis* (Rhynchocephalia, Clevosauridae) from the Upper Triassic of Rio Grande do Sul, Brazil. *PLoS ONE*, 10(3): e0119307. doi:10.1371/journal.pone.0119307.
- Roopnarine, P.D. & Angielczyk, K.D. 2015. Community stability and selective extinction during the Permian-Triassic mass extinction. *Science*, 350(6256): 90–93.
- Rothschild, B.M. & Naples, V. 2015. Decompression syndrome and diving behaviour in *Odontochelys*, the first turtle. *Acta Palaeontologica Polonica*, 60(1): 163–167.
- Ruban, D.A. 2015. Mesozoic long-term eustatic cycles and their uncertain hierarchy. *Geoscience Frontiers*, 6(4): 503–511.
- Rui Xia, Changming Wang, Min Qing, Wenliang Li, Carranza, E.J.M., Xiaodong Guo, Liangsheng Ge & Guanzhong Zeng. 2015. Zircon U-Pb dating, geochemistry and Sr-Nd-Pb-Hf-O isotopes for the Nan'getan granodiorites and mafic microgranular enclaves in the East Kunlun Orogen: record of closure of the Paleo-Tethys. *Lithos*, 234–235: 47–60.

- Rustichelli, A., Iannace, A. & Girundo, M. 2015. Dolomitization impact on fracture density in pelagic carbonates: contrasting case studies from the Gargano Promontory and the Southern Appenines (Italy). *Italian Journal of Geoscience*, 134(3): 556–575.
- Rutherford, A.B., Rubidge, B.S. & Hancox, P.J. 2015. Sedimentology and palaeontology of the Beaufort Group in the Free State Province supports a reciprocal foreland basin model for the Karoo Supergroup, South Africa. *South African Journal of Geology*, 118(4): 355–372.
- Saccani, E., Dilek, Y., Marroni, M. & Pandolfi, L. 2015. Continental margin ophiolites of Neotethys: remnants of ancient ocean-continent transition zone (OCTZ) lithosphere and their geochemistry, mantle sources and melt evolution patterns. *Episodes*, 38(4): 230–249.
- Sadovnikov, G.N. 2015. Paleoecological characterization of the Middle Siberian trappean plateau at the end of the period of its formation (near the Permian-Triassic boundary). *Paleontological Journal*, 49(1): 89–99.
- Safonova, I., Kojima, S., Nakae, S., Romer, R.L., Seltmann, R., Sano, H. & Onoue, T. 2015. Oceanic island basalts in accretionary complexes of SW Japan: tectonic and petrogenetic implications. *Journal of Asian Earth Sciences*, 113(1): 508–523.
- Saito, R., Kaiho, K., Oba, M., Fujibayashi, M., Jinnan Tong & Li Tian. 2015. Predominance of archaea-derived hydrocarbons in an Early Triassic microbialite. *Organic Geochemistry*, 85: 66–75.
- Sajjadi, F., Hashemi, H. & Borzuee, E. 2015. Palynostratigraphy of the Nayband Formation, Tabas, Central Iran Basin: paleogeographical and paleoecological implications. *Journal of Asian Earth Sciences*, 111: 553–567.
- Salamon, M.A., Gorzelak, P., Hanken, N.-M., Riise, H.E. & Ferré, B. 2015. Crinoids from Svalbard in the aftermath of the end-Permian mass extinction. *Polish Polar Research*, 36(3): 225–238.
- Sanson-Barrera, A., Hochuli, P.A., Bucher, H., Schneebeli-Hermann, E., Weissert, H., Adatte, T. & Bernasconi, S.M. 2015. Late Permian-earliest Triassic high-resolution organic carbon isotope and palynofacies records from Kap Stosch (East Greenland). *Global and Planetary Change*, 133: 149–166.
- Santi, G., Lualdi, A., Decarlis, A., Nicosia, U. & Ronchi, A. 2015. Chirotheriid footprints from the Lower-Middle Triassic of the Briançonnais Domain (Pelite di Case Valmarenca, Western Liguria, NW Italy). *Bollettino della Società Paleontologica Italiana*, 54(2): 81–90.
- Santucci, V.L., Tweet, J., Bustos, D., Van Haden, J. & Varela, P. 2015. Vertebrate paleontological resources from National Park Service areas in New Mexico. *New Mexico Museum of Natural History & Science Bulletin*, 68: 41–49.
- Sato, A.M., Llambias, E.J., Basei, M.A.S. & Castro, C.E. 2015. Three stages in the Late Paleozoic to Triassic magmatism of southwestern Gondwana, and relationships with the volcanogenic events in coeval basins. *Journal of South American Earth Sciences*, 63: 48–69.
- Sayit, K., Göncüoglu, M.C. & Tekin, U.K. 2015. Middle Carnian arc-type basalts from the Lycian nappes, southwestern Anatolia: early Late Triassic subduction in the northern branch of Neotethys. *The Journal of Geology*, 123(6): 561–579.
- Schaller, M.F., Wright, J.D. & Kent, D.V. 2015. A 30Myr record of Late Triassic atmospheric $p\text{CO}_2$ variation reflects a fundamental control of the carbon cycle by changes in continental weathering. *Geological Society of America Bulletin*, 127(5–6): 661–671.
- Scheltens, M., Lifei Zhang, Wenjiao Xiao & Jinjiang Zhang. 2015. Northward subduction-related orogenesis in the southern Altaiids: constraints from structural and metamorphic analysis of the HP/UHP accretionary complexes in Chinese southwestern Tianshan, NW China. *Geoscience Frontiers*, 6(2): 191–209.
- Schencman, L.J., Colombi, C., Santi Malnis, P. & Limarino, C.O. 2015. Diagenesis and provenance of the Los Colorados Formation (Norian), Ischigualasto-Villa Unión Basin, northwest of Argentina. *Revista de la Asociación Geológica Argentina*, 72(2): 219–234.
- Schmaltz Hsiou, A., De França, M.A.G. & Ferigolo, J. 2015. New data on the *Clevosaurus* (Sphenodontia: Clevosauridae) from the Upper Triassic of southern Brazil. *PLoS ONE*, 10(9): e0137523. doi:10.1371/journal.pone.0137523.
- Schneebeli-Hermann, E. & Bucher, H. 2015. Palynostratigraphy at the Permian-Triassic boundary of the Amb section, Salt Range, Pakistan. *Palynology*, 39(1): 1–18.
- Schneebeli-Hermann, E., Kürschner, W.M., Kerp, H., Bomfleur, B., Hochuli, P.A., Bucher, H., Ware, D. & Roohi, G. 2015. Vegetation history across the Permian-Triassic boundary in Pakistan (Amb section, Salt Range). *Gondwana Research*, 27(3): 911–924.
- Schobben, M., Stebbins, A., Ghaderi, A., Strauss, H., Korn, D. & Korte, C. 2015. Flourishing ocean drives the end-Permian mass extinction. *PNAS*, 112(33): 10298–10303.
- Schoch, R.R. 2015. Amphibien und Chroniosuchier des Lettenkeupers. *Palaeodiversity*, Special Issue: 203–230.
- Schoch, R.R. 2015. Reptilien des Lettenkeupers. *Palaeodiversity*, Special Issue: 231–264.
- Schoch, R. & Hagdorn, H. 2015. Lettenkeuper-fossilien als Denkmale und wissenschaftliche Belegmaterial. *Palaeodiversity*, Special Issue: 389–398.
- Scholze, F., Golubev, V.K., Niedźwiedzki, G., Sennikov, A.G., Schneider, J.W. & Silantiev, V.V. 2015. Early Triassic conchostracans (Crustacea: Branchiopoda) from the terrestrial Permian-Triassic boundary sections in the Moscow Syncline. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 429: 22–40.
- Scholze, F. & Schneider, J.W. 2015. Improved methodology of ‘conchostracan’ (Crustacea: Branchiopoda) classification for biostratigraphy. *Newsletters on Stratigraphy*, 48(3): 287–298.
- Schori, M., Mosar, J. & Schreurs, G. 2015. Multiple detachments during thin-skinned deformation of the Swiss Central Jura: a kinematic model across the Chasseral. *Swiss Journal of Geosciences*, 108(2): 327–343.
- Schöllmann, L., Hagdorn, H. & Hauschke, N. 2015. Ein mariner Isopode (Malacostraca) aus dem Oberen Muschelkalk (Mittlere Trias) des Hohenloher Landes (Südwestdeutschland). *Geologica Saxonica*, 61(1): 95–103.

- Schuster, R. 2015. Zur Geologie der Ostalpinen. Abhandlungen der Geologischen Bundesanstalt, Wien, 64: 143–165.
- Schuster, R., Tropper, P., Krenn, E., Finger, F., Frank, W. & Philippitsch, R. 2015. Prograde Permo-Triassic metamorphic HT/LP assemblages from the Austroalpine Jenig Complex (Carinthia, Austria). Austrian Journal of Earth Sciences, 108(1): 73–90.
- Schwarz, W.H., Schmieder, M., Buchner, E., Trieloff, M., Moilanen, J. & Öhman, T. 2015. A Carnian $^{40}\text{Ar}/^{39}\text{Ar}$ age for the Paasselkä impact structure (SE Finland) – an update. Meteoritics and Planetary Science, 50(1): 135–140.
- Seebeck, H., Tenthorey, E., Consoli, C. & Nicol, A. 2015. Polygonal faulting and seal integrity in the Bonaparte Basin, Australia. Marine and Petroleum Geology, 60: 120–135.
- Sennikov, A.G. 2015. New data on the herpetofauna of the Early Triassic Donskaya Luka locality, Volgograd region. Paleontological Journal, 49(11): 1161–1173.
- Senowbari-Daryan, B., Link, M. & Riedel, P. 2015. *Colospongia cribrifera* nov. sp. and *Parastylothalamia minima* nov. sp. ("Spinctozoa" Porifera) from the Norian of Taurus Mountains, Turkey. Revue de Paléobiologie, 34(1): 1–9.
- Senter, O. & Robins, J.H. 2015. Resting orientations of dinosaur scapulae and forelimbs: a numerical analysis, with implications for reconstructions and museum mounts. PLoS ONE, 10(12): e0144036. doi:10.1371/journal.pone.0144036.
- Septon, M.A., Jiao, D., Engel, M.H., Looy, C.V. & Visscher, H. 2015. Terrestrial acidification during the end-Permian biosphere crisis? Geology, 43(2): 159–162.
- Shakerardakani, F., Neubauer, F., Masoudi, F., Mehrabi, B., Xiaoming Liu, Yupeng Dong, Mohajel, M., Monfaredi, B. & Friedl, G. 2015. Panafrican basement and Mesozoic gabbro in the Zagros orogenic belt in the Dorud-Azna region (NW Iran): laser-ablation ICP-MS zircon ages and geochemistry. Tectonophysics, 647–648: 146–171.
- Shang Qing-hua & Li Chun. 2015. A new small-sized eosauroptrygian (Diapsida: Sauropterygia) from the Middle Triassic of Luoping, Yunnan, southwestern China. Vertebrata Palasiatica, 53(4): 265–280.
- Shanling Fu, Ruizhong Hu, Xianwu Bi, Youwei Chen, Jiehua Yang & Yong Huang. 2015. Origin of Triassic granites in central Hunan Province, South China: constraints from U-Pb ages and Hf and O isotopes. International Geology Review, 58(2): 97–111.
- Shanmugam, G. 2015. 3D palaeogeographic reconstructions of the Phanerozoic versus sea-level and Sr-ratio variations: Discussion. Journal of Palaeogeography, 4(3): 234–243.
- Shao-qing Zhao, Jun Tan, Jun-hao Wei, Ning Tian, Dao-han Zhang, Sheng-nan Liang & Jia-jie Chen. 2015. Late Triassic Batang Group arc volcanic rocks in the northeastern margin of Qiangtang terrane, northern Tibet: partial melting of juvenile crust and implications for Paleo-Tethys ocean subduction. International Journal of Earth Sciences, 104(2): 369–387.
- Sheikholeslami, M.R. 2015. Deformations of Palaeozoic and Mesozoic rocks in southern Sirjan, Sanandaj-Sirjan Zone, Iran. Journal of Asian Earth Sciences, 106: 130–149.
- Sheng-Sheng Chen, Ren-Ding Shi, Hai-Bo Zou, Qi-Shuai Huang, De-Liang Liu, Xiao-Han Gong, Guo-Ding Yi & Kang Wu. 2015. Late Triassic island-arc-back-arc basin development along the Bangong-Nujiang suture zone (central Tibet): geological, geochemical and chronological evidence from volcanic rocks. Lithos, 230: 30–45.
- Shi, Z., Zhang, X., Ji, G., Fan, H. & Su, X. 2015. Microfacies of P-Tr and O-S boundary layers in Upper Yangtze region, China: implications for delayed mass extinctions after main volcanic events. Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz, 21: 348.
- Shigeta, Y. & Kumagae, T. 2015. *Churkites*, a Trans-Panthalassic Early Triassic ammonoid genus from South Primorye, Russian Far East. Paleontological Research, 19(3): 219–236.
- Shingaly, W.S. 2015. Sequence-stratigraphic framework of Lower Triassic Beduh Formation, Northern Thrust Zone, Kurdistan, Iraq. Arabian Journal of Geosciences, 8(10): 8131–8141.
- Shipeng Huang, Dan Liu, Zecheng Wang, Ziqi Feng & Tongfei Huang. 2015. Genetic origin of gas condensate in Permian and Triassic strata in the southern Sichuan Basin, SW China. Organic Geochemistry, 85: 54–65.
- Sidorchuk, E.A., Schmidt, A.R., Ragazzi, E., Roghi, G. & Lindquist, E.E. 2015. Plant-feeding mite diversity in Triassic amber (Acari: Tetrapodili). Journal of Systematic Palaeontology, 13(2): 129–151.
- Silva-Romo, G., Mendoza-Rosales, C.C., Campos-Madrigal, E., Centeno-Garcia, E. & Peralta-Salazar, R. 2015. Early Mesozoic southern Mexico-Amazonian connection based on U-Pb ages from detrital zircons: the La Mora paleo-river in the Mixteca Terrane and its paleogeographic and tectonic implications. Gondwana Geology, 28(2): 689–701.
- Simpson, E.L., Fillmore, D.L., Szajna, M.J., Bogner, E., Malenda, M.G., Livingstone, K.M. & Hartline, B. 2015. Enigmatic spheres from the Upper Triassic Lockatong Formation, Newark Basin of eastern Pennsylvania: evidence for microbial activity in marginal-lacustrine strandline deposits. Palaeodiversity and Palaeoenvironments, 95(4): 521–529.
- Singh, V., Pandita, S. K., Tewari, R., van Hengstrum, P.J., Pillai, S.S.K., Agnihotri, D., Kumar, K. & Bhat, G.D. 2015. Thecamoebians (testate Amoebea) straddling the Permian-Triassic boundary in the Guryul Ravine section, India: evolutionary and palaeoecological implications. PLoS ONE, 10(8): e0135593. doi:10.1371/journal.pone.0135593.
- Skrzycki, P. 2015. A new species of lungfish (Sarcopterygii, Dipnoi) from the Late Triassic Krasiejów site in Poland, with remarks on the ontogeny of Triassic dipnoan tooth plates. Journal of Vertebrate Paleontology, 35(5): e964357 (22 pp.). DOI: 10.1080/02724634.2015.892011.964357.
- Smith, A.G., Barry, T., Bown, P., Cope, J., Gale, A., Gibbard, P., Gregory, J., Hounslow, M., Kemp, D., Knox, R., Marshall, J., Oates, M., Rawson, P., Powell, J. & Waters, C. 2015. GSSPs, global stratigraphy and correlation. Geological Society, London, Special Publications, 404: 37–67.
- Smith, A.S. 2015. Fossils at the Nottingham Natural History Museum, Wollaton Hall, UK. The Palaeontological Association Newsletter, 88: 35–38.
- Smith, D.M. & Marcot, J.D. 2015. The fossil record and macroevolutionary history of the beetles. Proceedings of the Royal Society of London, B. 282(1805): 20150060. DOI:

10. 1098/rspb.2015.0060. (8pp).
- Smyshlyeva, O.P. & Zakharov, Y.D. 2015. New Lower Triassic ammonoids from South Primorye. *Paleontological Journal*, 49(2): 111–120.
- Soda, K., Onoue, T. & Ikeda, M. 2015. Cyclostratigraphic examination of Middle Triassic (Anisian) bedded chert in the Chichibu Belt from Tsukuni area, eastern Kyushu, Japan. *Journal of the Geological Society of Japan*, 121(4): 147–152.
- Sohn, J.-C., Labandeira, C.C. & Davis, D.R. 2015. The fossil record and taphonomy of butterflies and moths (Insecta, Lepidoptera): implications for evolutionary diversity and divergence-time estimates. *BMC Evolutionary Biology*, 15(12). DOI 10.1186/s12862-015-0290-8. (15pp).
- Song, H., Wignall, P.B., Tong, J., Song, H., Chen, J., Chu, D., Tian, L., Luo, M., Zong, K., Chen, Y., Lai, X., Zhang, K. & Wang, H. 2015. Integrated Sr isotope variations and global environmental changes through Late Permian to early Late Triassic. *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 21: 354.
- Song, H., Wu, K., Algeo, T.J., Tong, J., Owens, J.D., Song, H., Tian, L., Qiu, H., Zhu, Y., Liang, L. & Lyons, T.W. 2015. Termination of the Early Triassic hyper-greenhouse by enhanced organic carbon burial at the Smithian-Spathian boundary. *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 21: 355.
- Song Yue, Wang Jian, Liu Jinlin & Bao Zhenyan. 2015. Chronology, geochemistry, hafnium isotope characteristics and tectonic implications of Muztag-Kongur Indosinian intrusive rocks. *Journal of Jilin University (Earth Science Edition)*, 45(5): 1418–1435.
- Spikings, R., Cochrane, R., Villagomez, D., Vander Lelij, R., Vallejo, C., Winkler, W. & Beate, B. 2015. The geological history of northwestern South America: from Pangaea to the early collision of the Caribbean Large Igneous Province (290–75 Ma). *Gondwana Research*, 27(1): 95–139.
- Spina, A., Cirilli, S., Utting, J. & Jansonius, J. 2015. Palynology of the Permian and Triassic of the Tesero and Bulla sections (Western Dolomites, Italy) and consideration about the enigmatic species *Reduviasporonites chalastus*. *Review of Palaeobotany and Palynology*, 218: 3–14.
- Stafeev, A.N., Sukhanova, T.V., Latysheva, I.V., Kosorukov, V.L., Rostovtseva, Yu.I. & Smirnova, S.B. 2015. New data on the geology of the Lozovoe zone (Upper Triassic-Middle Jurassic) of the Crimean mountains. *Moscow University Geology Bulletin*, 70(5): 386–398.
- Stanley, G.D. 2015. Ocean acidification, the Permian Mass Extinction and the Naked Coral Effect. *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 21: 358.
- Stanley Jr, G.D. & Onoue, T. 2015. Upper Triassic reef corals from the Sambosan Accretionary Complex, Kyushu, Japan. *Facies*, 61(2). DOI 10.1007/s10347-014-0425-1. (27pp).
- Steinthorsdottir, M., Tosolini, A.-M.P. & McElwain, J. 2015. Evidence for insect and annelid activity across the Triassic–Jurassic transition in East Greenland. *Palaios*, 30(8): 597–607.
- Stevanović, Z., Dulić, I. & Dunčić, M. 2015. Some experiences in tapping deep thermal waters of the Triassic karstic aquifer in the Pannonian Basin of Serbia. *Central European Geology*, 58(1-2): 50–51.
- Stüeken, E., Foriel, J., Buick, R. & Schoepfer, S.D. 2015. Selenium isotope ratios, redox changes and biological productivity across the end-Permian mass extinction. *Chemical Geology*, 410: 28–39.
- Sudar, M., Gawlick, H.-J., Missoni, S., Jovanović, D. & Lein, R. 2015. The Middle Triassic (Anisian) Bulog Formation in the Dinarides: definition, use and reality. New insights from new and revised sections in the Dinarides (Dinaridic Ophiolite Belt, Serbia). *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 21: 362.
- Sun, Y., Wignall, P.B., Joachimski, M.M., Bond, D.P.G., Grasby, S.E. & Lai, X. 2015. High amplitude redox changes during the Smithian/Spathian (Early Triassic) extinction in South China. *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 21: 364.
- Sun, Y.D., Wignall, P.B., Joachimski, M.M., Bond, D.P.G., Grasby, S.E., Sun, S., Yan, C.B., Wang, L.N., Chen, Y.L. & Lai, X.L. 2015. High amplitude redox changes in the late Early Triassic of South China and the Smithian-Spathian extinction. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 427: 62–78.
- Suzuki, H., Gawlick, H.-J., Onoue, T., Mikami, T., Sato, H., Yamashita, D. & Ishida, K. 2015. The Jurassic of the Northern Calcareous Alps and its Global Boundary Stratotype Section and Point (GSSP). *Journal of the Geological Society of Japan*, 121(3): 83–90.
- Suzuki, H., Mimura, K., Inigaki, S. & Takeuchi, M. 2015. Coniform conodonts collected from the Aso limestone body in the Chichibu Belt, Mie Prefecture. *Journal of the Geological Society of Japan*, 121(6): 179–183.
- Szeitz, P., Coblinski Tavares, C. & Karádi, V. 2015. Micropaleontological investigations of the Norian/Rhaetian boundary interval in the Csővár borehole, Transdanubian Range, Hungary. *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 21: 367.
- Szulc, J. & Racki, G. 2015. Grabowa Formation – the basic lithostratigraphic unit of the Upper Silesian Keuper. *Przegląd Geologiczny*, 63(2): 103–113.
- Szulc, J., Racki, G. & Jewuła, K. 2015. Key aspects of the stratigraphy of the Upper Silesian middle Keuper, southern Poland. *Annales Societatis Geologorum Poloniae*, 85(4): 557–586.
- Szulc, J., Racki, G., Jewuła, K. & Środoń, J. 2015. How many Upper Triassic bone-bearing levels are there in Upper Silesia (southern Poland)? A critical overview of stratigraphy and facies. *Annales Societatis Geologorum Poloniae*, 85(4): 587–626.
- Tabor, N.J. & Myers, T.S. 2015. Paleosols as indicators of paleoenvironment and paleoclimate. *Annual Review of Earth and Planetary Sciences*, 43: 333–361.
- Taborda, J.R.A., Heckert, A.B. & Desojo, J.B. 2015. Intraspecific variation in *Aetosauroides scagliai* Casamiquela (Archosauria: Aetosauria) from the Upper Triassic of Argentina and Brazil: an example of sexual dimorphism? *Ameghiniana*, 52(2): 173–187.

- Takahashi, S., Yamasaki, S., Ogawa, K., Kaiho, K. & Tsuchiya, N. 2015. Redox conditions in the early-End Triassic Panthalassa. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 432: 15–28.
- Tang Jianrong, Wang Jin You, Zhang Cheng Cheng, Song Guang Zeng, Shi Yingtao & Zhang Lei. 2015. Sedimentary characteristics and their relationship with tight sandstone gas within the source rock of tight gas: a case study from the Third Member of Xujiahe Formation in Yuanba area, NE Sichuan Basin. *Acta Sedimentologica Sinica*, 2015(6): 1224–1234.
- Tanner, L.K. & Lucas, S.G. 2015. The Triassic-Jurassic strata of the Newark Basin, USA: a complete and accurate astronomically-tuned timescale? *Stratigraphy*, 12(1): 47–65.
- Tao Qian, Shaofeng Liu, Wangpeng Li, Tangjun Gao & Xinlu Chen. 2015. Early-Middle Jurassic evolution of the northern Yangtze foreland basin: a record of uplift following Triassic continent-continent collision to form the Qinling-Dabieshan orogenic belt. *International Geology Review*, 57(3): 327–341.
- Tasrianto, R. & Escalona, A. 2015. Rift architecture of the Lofoten-Vesterålen margin, offshore Norway. *Marine and Petroleum Geology*, 64: 1–16.
- Tassi, L.V., Zavattieri, A.M. & Gallego, O.F. 2015. Triassic spinicaudatan fauna from the Cerro de las Cabras Formation (Cuyo Basin), Mendoza Province (Argentina): description of new species and revision of previous records. *Ameghiniana*, 52(2): 241–264.
- Taverne, L. & Capasso, L. 2015. Osteology and relationships of *Ceneichthys zambellii* gen. and sp. nov. (Teleostei, Pholidophoridae) from the Late Triassic of northern Italy. *Bollettino del Museo di Storia Naturale di Verona Geologia Paleontologia Preistoria*, 39: 13–26.
- Taylor, A. 2015. Probing mineralisation beneath Leicester SSSI. *Earth Heritage*, 44: 27–28.
- Taylor, T.R., Kittridge, M.G., Winefield, P., Bryndzia, L.T. & Bonnell, L.M. 2015. Reservoir quality and rock properties modelling – Triassic and Jurassic sandstones, greater Shearwater area, UK Central North Sea. *Marine and Petroleum Geology*, 65: 1–21.
- Terruzzi, G. 2015. The Stoppani collection of large bivalves (Bivalvia, Megalodontida) from the Upper Triassic of Lombardy, Italy. *Natural History Sciences*, 2(1): 15–24.
- Tewari, R., Ram-Awaran, Pandita, S.K., McLoughlin, S., Agnihotri, D., Pillai, S.S.K., Singh, V., Kumar, K. & Bhat, G.D. 2015. The Permian-Triassic palynological transition in the Guryul Ravine section, Kashmir, India: implications for Tethyan Gondwanan correlations. *Earth-Science Reviews*, 149: 53–66.
- Thompson, J.R., Petsios, E., Davidson, E.H., Erkenbrack, E.M., Feng Gao & Bottjer, D.J. 2015. Reorganization of sea urchin gene regulatory networks at least 268 million years ago as revealed by oldest fossil cidaroid echinoid. *Nature Scientific Reports*, 5(15541), doi:10.1038/srep15541.
- Thomson, T.J. & Droser, M.L. 2015. Swimming reptiles make their mark in the Early Triassic: delayed ecologic recovery increased the preservation potential of vertebrate swim tracks. *Geology*, 43(3): 215–218.
- Timms, N.E., Olierook, H.K.H., Wilson, M.E.J., Piane, C.D., Hamilton, P.J., Cope, P. & Stützenbecker, L. 2015. Sedimentary facies analysis, mineralogy and diagenesis of the Mesozoic aquifers of the central Perth Basin, Western Australia. *Marine and Petroleum Geology*, 60: 54–78.
- Tintori, A. 2015. Setting the record straight for fossil flying fishes versus non-flying ones; a comment on Xu et al. (2015). *Biology Letters*, 11(11): 20150179; DOI: 10.1098/rsbl.2015.0179.
- Tintori, A., Sun, Z., Peigang, N., Lombardo, C., Jiang, D. & Motani, R. 2015. Oldest stem telosteis from the Late Ladinian (Middle Triassic) of southern China. *Rivista Italiana di Paleontologia e Stratigrafia*, 121(3): 285–296.
- Tobares, M.L., Martinez, A., Gallardo, A.H., Aguilera, D., Giaccardi, A. & Giambiagi, L. 2015. Petrography and geochemical characterisation of the Permo-Triassic in the Sierra de Varela, San Luis, Argentina. *Revista de la Sociedad Geológica de España*, 28(2): 29–41.
- Todaro, S., Di Stefano, P. & Zarcone, G. 2015. T/J boundary in peritidal carbonates from south-western Tethys. *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 21: 370.
- Tong, J., Chu, D. & Chou, X. 2015. Terrestrial Permo-Triassic boundary sequences in China. *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 21: 373.
- Tong Jinnan. 2015. Division and correlation of marine Lower-Middle Triassic strata in east China. *Acta Geoscientica Sinica*, 2015(5): 546–558.
- Touping Peng, Guochun Zhao, Weiming Fan, Bingxia Peng & Yongsheng Mao. 2015. Late Triassic granitic magmatism in the eastern Qiangtang, eastern Tibetan Plateau: geochronology, petrogenesis and implications for the tectonic evolution of the Paleo-Tethys. *Gondwana Geology*, 27(4): 1494–1508.
- Trembath-Reichert, E., Wilson, J.P., McGlynn, S.E. & Fischer, W.W. 2015. Four hundred million years of silica biomineralization in land plants. *PNAS*, 112(17): 5449–5454.
- Tricciante, E., Frixia, A. & Sartorio, D. 2015. Palynology and stratigraphic characterization of subsurface sedimentary successions in the Sicanian and Imerese Domains – Central Western Sicily. *Review of Palaeobotany and Palynology*, 218: 48–66.
- Trotter, J.A., Williams, I.S., Nicora, A., Mazza, M. & Rigo, M. 2015. Long-term cycles of Triassic climate change: a new $\delta^{18}\text{O}$ record from conodont apatite. *Earth and Planetary Science Letters*, 415: 165–174.
- Tugend, J., Manatschal, G., Kusznir, N.J. & Masini, E. 2015. Characterizing and identifying structural domains at rifted continental margins: application to the Bay of Biscay margins and its western Pyrenean fossil remnants. *Geological Society, London, Special Publications*, 413: 171–203.
- Tweet, J.S. & Santucci, V.L. 2015. An inventory of Mesozoic mammals and non-mammalian therapsids in National Park Service areas. *New Mexico Museum of Natural History & Science Bulletin*, 67: 297–302.
- Urlich, M. 2015. Entgegnung zu REIN (2014): *Germanonautilus* im Unteren Keuper (Trias, Erfurt-Formation) - von *Trematodus jugatonodosus* bis *Germanonautilus bidorsatus*.

- Semana (Veröffentlichungen des Naturhistorischen Museums Schleusingen), 30: 55–56.
- Uruski, C. 2015. The contribution of offshore seismic data to understanding the evolution of the New Zealand continent. Geological Society, London, Special Publications, 413: 35–51.
- Usuki, T., Ching-Ying Lan, Trong Hoa Tran, Thi Dung Pham, Kuo-Lung Wang, Shellnutt, G.J. & Sun-Lin Chung. 2015. Zircon U-Pb ages and Hf isotopic compositions of alkaline silicic magmatic rocks in the Phan Si Pan-Tu Le region, northern Vietnam: identification of a displaced western extension of the Emeishan Large Igneous Province. Journal of Asian Earth Sciences, 97: 102–124.
- Van Hinsbergen, D.J.J., Cunningham, D., Straathof, G.B., Ganerød, M., Hendricks, B.W.H. & Dijkstra, A.H. 2015. Triassic to Cenozoic multi-stage intra-plate deformation focused near the Bogd Fault system, Gobi Altai, Mongolia. Geoscience Frontiers, 6(5): 723–740.
- Van Loon, A.J. (Tom). 2015. The Vérard et al. (2015) method for 3D palaeogeographic reconstructions: how solid is its base? Journal of Palaeogeography, 4(3): 244–247.
- Vargas-Peixoto, D., Da-Rosa, Á.A.S. & Gallo de Franca, M.A. 2015. Functional and biomechanical aspects of the scapular girdle and forelimbs of *Unaysaurus tolentinoi* Leal et al., 2004 (Saurischia: Sauropodomorpha). Journal of South American Earth Sciences, 61: 129–133.
- Vázquez-Vilchez, M., Jabaloy-Sánchez, A., Azor, A., Stuart, F., Persano, C., Alonso-Chaves, F.M., Martín-Parra, L.M., Matas, J. & García-Navarro, E. 2015. Mesozoic and Cenozoic exhumation history of the SW Iberian Variscides inferred from low-temperature thermochronology. Tectonophysics, 663: 110–121.
- Veizer, J. & Prokoph, A. 2015. Temperatures and oxygen isotopic composition of Phanerozoic oceans. Earth-Science Reviews, 146: 92–104.
- Velaj, T. 2015. The structural style and hydrocarbon exploration of the subthrust in the Berati Anticlinal Belt, Albania. Journal of Petroleum Exploration and Production Technology, 5(2): 123–145.
- Velić, J., Malvić, T., Cvetković, M. & Velić, I. 2015. Stratigraphy and petroleum geology of the Croatian part of the Adriatic Basin. Journal of Petroleum Geology, 38(3): 281–300.
- Vennin, E., Olivier, N., Brayard, A., Bour, I., Thomazo, C., Escarguel, G., Fara, E., Bylund, K.G., Jenks, J.F., Stephen, D.A. & Hofmann, R. 2015. Microbial deposits in the aftermath of the end-Permian mass extinction: a diverging case from the Mineral Mountains (Utah, USA). Sedimentology, 62(3): 753–792.
- Vérard, C. 2015. Reply to comments by G. Shanmugam (2015) and A.J. (Tom) Loon (2015) on “3D palaeogeographic reconstructions of the Phanerozoic versus sea-level and Sr-ratio variations”. Journal of Palaeogeography, 4(3): 248–250.
- Vérard, C., Hochard, C., Baumgartner, P.O. & Stampfli, G.M. 2015. Geodynamic evolution of the Earth over the Phanerozoic: plate tectonic activity and palaeoclimatic indicators. Journal of Palaeogeography, 4(2): 167–188.
- Viega, F.H., Soares, M.B. & Sayão, J.M. 2015. Osteology of hyperodapedontine rhynchosauroids from the Upper Triassic of southern Brazil. Acta Palaeontologica Polonica, 60(4): 829–836.
- Vizán, H., Prezzi, C.B., Japas, M.S., Van Zele, M.A., Geuna, S.E. & Renda, E. 2015. Slab pull in the northern margin of Paleotethys ocean and internal deformation in Gondwana (including Ventana fold belt). Revista de la Asociación Geológica Argentina, 72(3): 355–377.
- Voeten, D.F.A.E., Sander, P.M. & Klein, N. 2015. Skeletal material from larger Eusauropterygia (Reptilia: Eosauropterygia) with nothosaurian and cymatosaurian affinities from the Lower Muschelkalk of Winterswijk, The Netherlands. Paläontologische Zeitschrift, 89(4): 943–960.
- Vojtko, R., Králiková, S., Kriváňová, S. & Vojtková, S. 2015. Lithostratigraphy and tectonics of the eastern Veporské Mountains (Western Carpathians). Acta Geologica Slovaca, 7(2): 113–127.
- Von Hillebrandt, A. & Kment, K. 2015. Psiloceratid ammonites from the Lower Hettangian of the Karwendel Mountains (Northern Calcareous Alps, Austria) and their biostratigraphic significance. Neues Jahrbuch für Geologie und Paläontologie – Abhandlungen, 277(3): 275–306.
- Vörös, A., Tamás, K. & Budai, T. 2015. New data on the Middle Triassic stratigraphy of the Balaton Highland (Hungary). Földtani Közlöny, 145(4): 315–324.
- Vozárová, A., Presnyakov, S., Šarinová, K. & Šmelko, M. 2015. First evidence for Permian-Triassic boundary volcanism in the Northern Gemicicum: geochemistry and U-Pb zircon geochronology. Geologica Carpathica, 66(5): 375–391.
- Wakefield, O.J.W., Hough, E. & Peatfield, A.W. 2015. Architectural analysis of a Triassic fluvial system: the Sherwood Sandstone Group of the East Midlands Shelf, UK. Sedimentary Geology, 327: 1–13.
- Waltham, D. 2015. Milankovitch Period uncertainties and their impact on cyclostratigraphy. Journal of Sedimentary Research, 85(8): 990–998.
- Wang Minglei, Zhang Sul'an, Zhang Fudong, Liu Yuting, Guan Hui, Li Jun, Shao Liyan, Yang Shen & She Yuanqi. 2015. Quantitative research on tight oil microscopic state of Chang 7 Member of Triassic Yanchang Formation in Ordos Basin, NW China. Petroleum Exploration and Development, 42(6): 827–832.
- Wang, Y., Tian, N., Li, L., Phillippe, M., Jiang, Z. & Zhou, N. 2015. Low-latitude terrestrial climate cooling event in the Late Triassic (Norian-Rhaetian): palaeobotanical evidence from the Sichuan Basin, southern China. Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz, 21: 394.
- Wang, Y.B., Yang, D.T., Liu, D.Y., Han, J., Wang, L.T. & Yao, J.X. 2015. Discussion of ‘The Triassic U-Pb age for the aquatic long-necked protorosaur of Guizhou, China’. Geological Magazine, 152(3): 574.
- Wappler, T., Kustatscher, E. & Dellantonio, E. 2015. Plant-insect interactions from Middle Triassic (late Ladinian) of Monte Agnolo (Dolomites, N-Italy) – initial pattern and response to abiotic environmental perturbations. PeerJ 3: e921 <https://doi.org/10.7717/peerj.921>.
- Wardlaw, B.R., Nestell, M.K., Nestell, G.P., Ellwood, B.B. &

- Luu Thi Phuong Lan. 2015. Conodont biostratigraphy of the Permian-Triassic boundary sequence at Lung Cam, Vietnam. *Micropaleontology*, 61(4-5): 313–334.
- Ware, D., Bucher, H., Brayard, A., Schneebeli-Hermann, E. & Brühwiler, T. 2015. High-resolution biochronology and diversity dynamics of the Early Triassic ammonoid recovery: the Dienerian faunas of the Northern Indian Margin. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 440: 363–373.
- Warrington, G. British Triassic palaeontology: new literature supplement 37. *Mercian Geologist*, 18(4): 252.
- Weems, R.E. & Lucas, S.G. 2015. A revision of Norian conchostracean zonation in North America and its implications for Late Triassic North American tectonic history. *New Mexico Museum of Natural History & Science Bulletin*, 67: 303–318.
- Wei Lin, Wenbin Ji, Faure, M., Lin Wu, Qili Li, Yonghong Shi, Scharer, U., Fei Wang & Qingchen Wang. 2015. Early Cretaceous extensional reworking of the Triassic HP-UHP metamorphic orogeny in eastern China. *Tectonophysics*, 662: 256–270.
- Wei-hing He, Kexin Zhang, Zhong-Qiang Chen, Jiaxin Yan, Tinglu Yang, Yang Zhang, Songzhu Gu & Shunbao Wu. 2015. A new genus *Liaous* of early Anisian Stage (Middle Triassic) brachiopods from southwestern China: systematics, reassessment of classification of the Spiriferinioidea, community paleoecology, and paleoenvironmental implications. *Journal of Paleontology*, 89(6): 966–979.
- Wei-Liang Liu & Bin Xia. 2015. Age and geochemistry of western Hoh-Xil-Songpan-Ganzi granitoids, northern Tibet: implications for the Mesozoic closure of the Paleo-Tethys ocean: Comment. *Lithos*, 212–215: 453–456.
- Weiming Fan, Yuejun Wang, Yanhua Zhang, Yuzhi Zhang, Jourdan, F., Jianwei Zi & Huichuan Liu. 2015. Paleotethyan subduction process revealed from Triassic blueschists in the Lancang tectonic belt of southwest China. *Tectonophysics*, 662: 95–108.
- Wen Wen, Zhang Qi-yue, Liu Jun, Hu Shi-xue, Zhou Chang-yong, Huang Jin-yuan & Xie Tao. 2015. New progress in the study of marine reptiles from the Luoping Biota of the Middle Triassic Anisian Period. *Acta Geoscientica Sinica*, 2015(4): 385–393.
- Wenhao Li, Zhihuan Zhang, Huimin Zhang, Shuanfeng Zhao, Hongxing Yan & Xing Liu. 2015. Hydrocarbon source and accumulation in Upper Triassic to Lower Jurassic in the Tongnanba area, northeastern Sichuan Basin. *Arabian Journal of Geosciences*, 8(5): 2515–2525.
- Wenjiao Xiao, Windley, B.F., Shu Sun, Jiliang Li, Baochun Huang, Chunming Han, Chao Yuan, Min Sun & Hanlin Chen. 2015. A tale of amalgamation of three Permo-Triassic collage systems in Central Asia: oroclines, sutures and terminal accretion. *Annual Review of Earth and Planetary Sciences*, 43: 477–507.
- Wentao Cao, Dan-Ping Yan, Liang Qiu, Yixi Zhang & Jingwei Qiu. 2015. Structural style and metamorphic conditions of the Jinshajiang metamorphic belt: nature of the Paleo-Jinshajiang orogenic belt in the eastern Tibetan Plateau. *Journal of Asian Earth Sciences*, 113(2): 748–765.
- Wentian Liang, Guowei Zhang, Yong Bai, Chunsheng Jin & Natasin, P. 2015. New insights into the emplacement mechanism of the Late Triassic granite plutons in the Qinling orogen: a structural study of the Mishuling pluton. *Geological Society of America Bulletin*, 127(11–12): 1583–1603.
- Whalen, L., Gazel, E., Vidito, C., Puffer, J., Bizimis, M., Henicka, W. & Caddick, M.J. 2015. Supercontinental inheritance and its influence on supercontinent breakup: the Central Atlantic Magmatic Province and the breakup of Pangea. *Geochemistry, Geophysics, Geosystems*, 16(10): 3532–3554.
- Whiteside, J.H., Lindström, S., Irmis, R.B., Glasspool, I.J., Schaller, M.F., Dunlavey, M., Nesbitt, S.J., Smith, N.D. & Turner, A.H., 2015. Extreme ecosystem instability suppressed tropical dinosaur dominance for 30 million years. *PNAS*, 112(26): 7909–7913.
- Wilde, S.A. & Jian-Bo Zhou. 2015. The late Paleozoic to Mesozoic evolution of the eastern margin of the Central Asian Orogenic belt in China. *Journal of Asian Earth Sciences*, 113(2): 909–921.
- Wilkins, A.D., Wilson, M.J., Morton, A., Hurst, A. & Archer, S.G. 2015. First recorded occurrence of detrital baddeleyite (ZrO_2) in sedimentary rock (Smith Bank Formation, Triassic, Central North Sea). *Scottish Journal of Geology*, 51(2): 185–189.
- Williams, J.D.O., Fellgett, M.W., Kingdon, A. & Williamson, J.P. 2015. In-situ stress orientation in the UK Southern North Sea: regional trends, deviations and detachment of the post-Zechstein stress field. *Marine and Petroleum Geology*, 67: 769–784.
- Wilson, L.A.B., Colombo, M., Sánchez-Villagra, M.R. & Salzburger, W. 2015. Evolution of opercle shape in cichlid fishes from Lake Tanganyika – adaptive trait interactions in extant and extinct species flocks. *Nature Scientific Reports*, 5(16909), doi:10.1038/srep16909.
- Wingruth, A.M.E., Shields, C.A. & Wingruth, C. 2015. Transition into a Hothouse World at the Permian-Triassic boundary: a model study. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 440: 316–327.
- Witton, M.P. 2015. Were early pterosaurs inept terrestrial locomotors? *PeerJ* 3: e1018 <https://doi.org/10.7717/peerj.1018>.
- Wrigley, R., Hodgson, N. & Esestime, P. 2015. Petroleum geology and hydrocarbon potential of the Adriatic Basin, offshore Croatia. *Journal of Petroleum Geology*, 38(3): 301–316.
- Wu Dong, Zhu Xiao-min, Ma Ai-yu, Li Yu-tong, Liu Zi-liang & Liao Ji-jia. 2015. Sedimentary facies of the Chang6-Chang10 intervals in Heshui-Ta'erwan area, Ordos Basin. *Geology in China*, 2015(6): 1822–1836.
- Wu Fei-xiang, Sun Yuan-lin, Hao Wei-cheng, Jiang Da-yong & Sun Zuo-yu. 2015. A new species of *Saurichthys* (Actinopterygii; Saurichthyiformes) from the Middle Triassic of southwestern China, with remarks on pattern of the axial skeleton of saurichthyid fishes. *Neues Jahrbuch für Geologie und Paläontologie – Abhandlungen*, 275(3): 249–267.
- Wu Songtao, Zhu Rukai, Cui Jinggang, Cui Jingwei, Bai Bin, Zhang Xiangxiang, Jin Xu, Zhu Desheng, You Jianchang & Li Xiaohong. 2015. Characteristics of lacustrine shale

- porosity evolution, Triassic Chang 7 Member, Ordos Basin. NW China. Petroleum Exploration and Development, 42(2): 185–195.
- Wu Zhongzuo, Ji Wenhua, He Shiping, Chen Shoujian, Yu Pusheng, Shi Chao, Chen Fenning, Zhang Huishan & Peng Yan. 2015. LA-ICP-MS zircon U-Pb dating and geochemical characteristics of granodiorite from Rilonggou area, Xinghai County, Qinghai Province. Geological Bulletin of China, 34(9): 1677–1688.
- Xiao Chuantao, Xiao Sheng, Tian Yicong, Hang Chao & Hu Mingyi. 2015. Research on biofacies their provincialization of Middle Permian–Middle Triassic in the western Sichuan Basin. Advances in Earth Science (Journal of Xidian University), 30(5): 602–608.
- Xiao Liang, Genhou Wang, Guo-Li Yuan & Xiaochao Che. 2015. Mesozoic and Cenozoic deformations in the Raggyorcaka area, Tibet: implications for the tectonic evolution of the North Qiangtang terrane. Journal of the Geological Society, London, 172(5): 614–623.
- Xiao Shi, Jianxin Yu, Broutin, J. & Pons, D. 2015. *Junggaropitys*, a new gymnosperm stem from the Middle-Late Triassic of Junggar Basin, northwest China, and its palaeoecological and palaeoclimatic implications. Review of Palaeobotany and Palynology, 223: 10–20.
- Xiao, Y., He, W., Zhang, K., Yue, M., Zhang, Y., Yang, T. & Wu, H. 2015. Latest Permian radiolarian fauna from Rencunping section, Hunan Province, South China and its paleoecological implication. Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz, 21: 409.
- Xiaochun Liu, SanZhong Li & Bor-Ming Jahn. 2015. Tectonic evolution of the Tongbai-Hong'an orogen in central China: from oceanic subduction/accretion to continent-continent collision. Science China Earth Sciences, 58(9): 1477–1496.
- Xiaoming Zhao, Jinnan Tong, Huazhou Yao, Zhijun Niu, Mao Luo, Yunfei Huang & Haijun Song. 2015. Early Triassic trace fossils from the Three Gorges area of South China: implications for the recovery of benthic ecosystems following the Permian-Triassic extinction. Palaeogeography, Palaeoclimatology, Palaeoecology, 429: 100–116.
- Xiaowei Li, Xuanxue Mo, Xiongfei Huang, Guochen Dong, Xuehui Yu, Mingfei Luo & Yanbin Liu. 2015. U-Pb zircon geochronology, geochemical and Sr-Nd-Hf isotopic compositions of the Early Indosinian Tongren Pluton in West Qinling: petrogenesis and geodynamic implications. Journal of Asian Earth Sciences, 97: 38–50.
- Xiaowei Li, Xiongfei Huang, Mingfei Luo, Guochen Dong & Xuanxue Mo. 2015. Petrogenesis and geodynamic implications of the Mid-Triassic lavas from East Kunlun, northern Tibetan Plateau. Journal of Asian Earth Sciences, 105: 32–47.
- XiaoXia Wang, Tao Wang & ChengLi Zhang. 2015. Granitoid magmatism in the Qinling orogen, central China and its bearing on orogenic evolution. Science China Earth Sciences, 58(9): 1497–1512.
- Xiao-xia Duan, Qing-dong Zeng, Yue-heng Yang, Jian-ming Liu, Shao-xiong Chu, Yan Sun & Zuo-lun Zhang. 2015. Triassic magmatism and Mo mineralization in northeast China: geochronological and isotopic constraints from the Laojiagou porphyry Mo deposit. International Geology Review, 57(1): 55–75.
- Xiao-Yan Jiang, Xian-Hua Li, Collins, W.J. & Hui-Qing Huang. 2015. U-Pb age and Hf-O isotopes of detrital zircons from Hainan Island: implications for Mesozoic subduction models. Lithos, 239: 60–70.
- Xie Gu-wei, Ye Mei-fang, Feng Sheng-bin, Yuan Xiao-q & He Jing. 2015. Late Triassic *Triops* from Chang 7 Member, Yanchang Formation of Yijun County, Shaanxi Province and its scientific significance. Acta Palaeontologica Sinica, 2015(3): 381–386.
- Xin-wei Qiu, Chi-yang Liu, Fei-fei Wang, Yu Deng & Guangzhou Mao. 2015. Trace and rare earth element geochemistry of the Upper Triassic mudstones in the Southern Ordos Basin, Central China. Geological Journal, 50(4): 399–413.
- Xing Ding, Wei-Dong Sun, Wei-Feng Chen, Pei-Rong Chen, Tao Sun, Sai-Jun Sun, Chiou-Ting Lin & Fu-Kun Chen. 2015. Multiple Mesozoic magma processes formed the 240–185 Ma composite Weishan pluton, South China: evidence from geochronology, geochemistry, and Sr-Nd isotopes. International Geology Review, 57(9–10): 1189–1217.
- Xingfu Huang, Wei Shi, Peng Chen & Hengqiang Li. 2015. Superposed deformation in the Helanshan Structural Belt: implications for Mesozoic intracontinental deformation of the North China Plate. Journal of Asian Earth Sciences, 114: 140–154.
- Xiong Ding, Jingchun Tian, Jingshan Chen, Jingli Yao, Xiuqin Deng & Yuanhao Li. 2015. Paleogeographic framework and provenance features during Late Triassic Chang 9 time of the Yanchang Formation, Ordos Basin, China. Arabian Journal of Geosciences, 8(9): 6731–6743.
- Xiong Zhi-qi, Zhong Jian-hua, Li Yong, Wang Shu-bao & Liu Shao-guang. 2015. Low-porosity and low-permeability hydrocarbon reservoirs and their controlling factors in the Chang-6 and Chang-8 members of the Yanchang Formation in the Fuxian region, Ordos Basin. Sedimentary Geology and Tethyan Geology, 35(2015:4): 68–76.
- Xu Zhongjie, Cheng Rihui, Wang Liaoliang & Zhang Li. 2015. Mineral and elemental geochemistry records of the paleoclimate and the tectonic background in Late Triassic Xiaoshui Formation-Early Jurassic Jinji Formation in east Guangdong. Journal of Jilin University (Earth Science Edition), 45(3): 712–723.
- Xuanhua Chen, Gehrels, G., An Yin, Qi Zhou & Penghui Huang. 2015. Geochemical and Nd-Sr-Pb-O isotopic constraints on Permo-Triassic magmatism in eastern Qaidam Basin, northern Qinghai-Tibetan Plateau: implications for the evolution of the Paleo-Tethys. Journal of Asian Earth Sciences, 114: 674–692.
- Yang Cai, Jianjun Lu, Dongsheng Ma, Hui Huang, Huafeng Zhang & Rongqing Zhang. 2015. The Late Triassic Dengfuxian A-type granite, Hunan Province: age, petrogenesis and implications for understanding the late Indosinian tectonic transition in South China. International Geology Review, 57(4): 428–445.
- Yang Changqing, Li Gang, Gong Jianming & Yang Chuansheng. 2015. Petroleum geological conditions and exploration

- prospect of the Mesozoic in southeast China Sea area. *Journal of Jilin University (Earth Science Edition)*, 45(1): 1–12.
- Yang Minghui, Li Liang, Zhou Jin, Jia Huichong, Sun Xiao, Gong Ting & Ding Chao. 2015. Structural evolution and hydrocarbon potential of the Upper Paleozoic northern Ordos Basin, North China. *Acta Geologica Sinica (English Edition)*, 89(5): 1636–1648.
- Yang Yu, Xiucheng Tan, Peiyuan Chen, Huiting Yang, Teng Ma, Jian Cao & Xiuju Jin. 2015. Discovery of hiatus in Feixianguan Formation and its geological implications, Sichuan Basin, SW China. *Turkish Journal of Earth Sciences*, 24(1): 39–55.
- Yang Zhang, Mingsong Li, Ogg, J.G., Montgomery, P., Chunju Huang, Zhong-qiang Chen, Zhiqiang Shi, Enos, P. & Lehrmann, D.J. 2015. Cycle-calibrated magnetostratigraphy of Middle Carnian from South China: implications for Late Triassic time scale and termination of the Yangtze Platform. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 436: 135–166.
- Yanlong Chen, Haishui Jiang, Xulong Lai, Chunbo Yan, Richoz, S., Xiaodan Liu & Lina Wang. 2015. Early Triassic conodonts of Jiulong, Nanpanjiang Basin, southern Guizhou Province, South China. *Journal of Asian Earth Sciences*, 105: 104–121.
- Yao Jingli, Zhao Yande, Deng Xiuqin, Guo Zhengquan, Luo Anxiang & Chu Meijuan. 2015. Controlling factors of tight oil reservoir in Triassic Yanchang Formation in Ordos Basin. *Journal of Jilin University (Earth Science Edition)*, 45(4): 983–992.
- Yeste, L.M., Henares, S., Fernández, J., Teixido, T., Peña, J.A. & Viseras, C. 2015. 3D geomodelling of outcrop analogs of sedimentary reservoirs: a Triassic example. *Geogaceta*, 57: 95–98.
- Yifan Xue, Dayong Jiang, Motani, R., Rieppel, O., Yuanlin Sun, Zuoyu Sun, Cheng Ji & Pengfei Yang. 2015. New information on sexual dimorphism and allometric growth in *Keichousaurus hui*, a pachypleurosaur from the Middle Triassic of Guizhou, South China. *Acta Palaeontologica Polonica*, 60(3): 681–687.
- Ying Cui & Kump, L.R. 2015. Global warming and the end-Permian extinction event: proxy and modelling perspectives. *Earth-Science Reviews*, 149: 5–22.
- Ying Li, YangMing Zhu, Fang Hao, HuaYao Zou & TongLou Guo. 2015. Thermal evolution and application of aromatic hydrocarbons in highly mature coal-bearing source rocks of the Upper Triassic Xujiahe Formation in the northern Sichuan Basin. *Science China Earth Sciences*, 58(11): 1960–1969.
- Yinhui Zuo, Nansheng Qiu, Jiawei Li, Qingqing Hao, Xiongqi Pang, Zhongying Zhao & Qi Zhu. 2015. Meso-cenozoic tectono-thermal evolution history in Bohai Bay Basin, North China. *Journal of Earth Science*, 26(3): 352–360.
- Yong Zhang, Dong Jia, Li Shan, Hongwei Yin, Zhuxin Chen, Haibin Li, Zhigang Li & Chuang Sun. 2015. Provenance of detrital zircons in the Late Triassic Sichuan foreland basin: constraints on the evolution of the Qinling Orogen and Longmen Shan thrust-fold belt in central China. *International Geology Review*, 57(14): 1806–1824.
- Yong-qing Liu, Hong-wei Kuang, Nan Peng, Huan Xu, Peng Zhang, Neng-sheng Wang & Wei An. 2015. Mesozoic basins and associated palaeogeographic evolution in North China. *Journal of Palaeogeography*, 4(2): 189–202.
- Yong-Sun Song, Ho-Sun Lee, Kye-Hun Park, Fitzsimons, I.C.W. & Cawood, P.A. 2015. Recognition of the Phanerozoic “Young Granite Gneiss” in the central Yeongnam Massif. *Geosciences Journal*, 19(1): 1–16.
- Yu-Jie Hao, Yun-Sheng Ren, Ming-Xin Duan, Kuang-Yin Tong, Cong Chen, Qun Yang & Chao Li. 2015. Metallogenic events and tectonic setting of the Duobaoshan ore field in Heilongjiang Province, NE China. *Journal of Asian Earth Sciences*, 97: 442–458.
- Yu-Xiu Zhang, Lu Zeng, Zhi-Wu Li, Cheng-Shan Wang, Kai-Jun Zhang, Wen-Guang Yang & Tong-Lou Guo. 2015. Late Permian-Triassic siliciclastic provenance, palaeogeography and crustal growth of the Songpan terrane, eastern Tibetan Plateau: evidence from U-Pb ages, trace elements, and Hf isotopes of detrital zircons. *International Geology Review*, 58(2): 159–181.
- Yu Zhang, Duoyun Wang, Hua Yang, Bushe Xin, Jinhua Fu & Jingli Yao. 2015. Provenance analysis of Nanyinger Group in the North Qilian Belt: constraints from zircon U-Pb geochronology. *Arabian Journal of Geosciences*, 8(6): 3403–3416.
- Yuan Xuanjun, Lin Senhu, Liu Qun, Yao Jingli, Wang Lan, Guo Hao, Deng Xiuqin & Cheng Dawei. 2015. Lacustrine fine-grained sedimentary features and organic-rich shale distribution pattern: a case study of Chang 7 Member of Triassic Yanchang Formation in Ordos Basin, NW China. *Petroleum Exploration and Development*, 42(1): 37–47.
- Yuhong Lei, Xiaorong Luo, Xiangzeng Wang, Lixia Zhang, Chengfu Jiang, Wan Yang, Yuxi Yu, Ming Cheng & Likuan Zhang. 2015. Characteristics of silty laminae in Zhangjiatan Shale of southeastern Ordos Basin, China: implications for shale gas formation. *AAPG Bulletin*, 99(4): 661–687.
- Yunpeng Dong, Xiaoning Zhang, Xiaoming Liu, Wei Li, Qing Chen, Guowei Zhang, Hongfu Zhang, Zhao Yang, Shengsi Sun & Feifei Zhang. 2015. Propagation tectonics and multiple accretionary processes of the Qinling Orogen. *Journal of Asian Earth Sciences*, 104: 84–98.
- Zaid, S.M. & Al Gahtani, F. 2015. Provenance, diagenesis, tectonic setting, and geochemistry of Hawkesbury Sandstone (Middle Triassic), southern Sydney Basin, Australia. *Turkish Journal of Earth Sciences*, 24(1): 72–98.
- Zakharov, Yu.D., Arkhangelsky, M.S., Zverkov, N.G., Borisov, I.V. & Popov, A.M. 2015. Age of beds with ichthyosaur *Tholodus* in South Primorye. *Russian Journal of Pacific Geology*, 9(5): 390–397.
- Zakharov, Yu.D., Biakov, A.S., Richoz, S. & Horacek, M. 2015. Importance of carbon isotopic data of the Permian-Triassic boundary layers in the Verkhoyansk region for the global correlation of the basal Triassic layer. *Doklady Earth Sciences*, 460(1): 1–5.
- Zanno, L.E., Drymala, S., Nesbitt, S.J. & Schneider, V.P. 2015. Early crocodylomorph increases top tier predator diversity during rise of dinosaurs. *Nature Scientific Reports*, 5(9276), doi:10.1038/srep09276.
- Zatón, M., Niedzwiedzki, G., Marynowski, L., Benzerara,

- K., Pott, C., Cosmidis, J., Krzykowski, T. & Filipiak, P. 2015. Coprolites of Late Triassic carnivorous vertebrates from Poland: an integrative approach. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 430: 21–46.
- Zelilidis, A., Maravelis, A.G., Tserolas, P. & Konstantopoulos, P.A. 2015. An overview of the petroleum systems in the Ionian Zone, onshore NW Greece and Albania. *Journal of Petroleum Geology*, 38(3): 331–348.
- Zeng-zhao Feng. 2015. Preliminary review about discussion of Vérard et al. (2015) – Words of the Editor-in-Chief. *Journal of Palaeogeography*, 4(3): 231–233.
- Zeng-zhao Feng, Zhi-dong Bao, Xiu-juan Zeng & Yuan Wang. 2015. There was no “Great Bank of Guizhou” in the Early Triassic of Guizhou Province, South China. *Journal of Palaeogeography*, 4(1): 99–108.
- Zeng-Zhen Wang, Bao-Fu Han, Li-Xia Feng & Bo Liu. 2015. Geochronology, geochemistry and origins of Paleozoic-Triassic plutons in the Langshan area, western Inner Mongolia. *Journal of Asian Earth Sciences*, 97: 337–351.
- Zhamoida, A.I. 2015. General Stratigraphic Scale of Russia: state of the art and problems. *Russian Geology and Geophysics*, 56(4): 511–523.
- Zhang Haihua, Zheng Yuejuan, Chen Shuwang, Li Yongfei, Zhang Jian, Bian Xiongfei, Su Fei, Gong Fanhao & Huang Xin. 2015. Zircon U-Pb age, geochemical characteristics and geological significance of the Triassic granite in Keerqinyouyizhongqi, Inner Mongolia. *Journal of Jilin University (Earth Science Edition)*, 45(2): 417–428.
- Zhang Hai-hua, Zheng Yue-juan, Chen Shu-wang, Zhang Jian, Gong Fan-hao, Su Fei & Huang Xin. 2015. Age of Xingfuzhilu Formation and contact relationship between Permian and Triassic strata in southern Da Hinggan Mountains: constraints from the tuff zircon U-Pb ages. *Geology in China*, 2015(6): 1754–1764.
- Zhang, L., Zhao, L., Chen, Z.-Q., Algeo, T.J., Li, Y. & Cao, L. 2015. Amelioration of marine environments at the Smithian-Spathian boundary. Early Triassic. *Biogeosciences*, 12(5): 1597–1613.
- Zhang San, Yang Bo, Li Tingyan, Wang Huiling, Zhang Zhenhong & Wang Lingli. 2015. Sedimentary facies and evolution of Chang 9 oil formation in Yanchang Formation, Zhijing-Ansai area, Ordos Basin. *Geological Bulletin of China*, 34(10): 1964–1970.
- Zhang Xing Zhou, Gue Ye, Zhou Jian Bo, Zeng Zhen, Pu Jian Bin & Fu Qiu Lin. 2015. Late Paleozoic-Early Mesozoic tectonic evolution in the east margin of the Jiamusi Massif, eastern northeastern China. *Russian Journal of Pacific Geology*, 9(1): 1–10.
- Zhang Yaoling, Hu Daogong, Wu Zhenhan, Hao Shuang & Liu Jiaqi. 2015. LA-ICP-MS zircon U-Pb ages for dacite tuffite from Bayan Har Group, northern Tibetan Plateau. *Geological Bulletin of China*, 34(5): 809–814.
- Zhao, L., Chen, J., Algeo, T.J., Chen, Z-Q., Cao, L., Zhang, L. & Li, Y. 2015. Diagenetic uptake of rare earth elements by bioapatite, with an example from Lower Triassic conodonts of South China. *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 21: 428.
- Zhao Yang, Yao Jingli, Duan Yi, Wu Yingzhong, Cao Xixi, Xu Li & Chen Shanshan. 2015. Oil-source analysis for Chang-9 Subsection (Upper Triassic) of eastern Gansu Province in Ordos Basin. *Acta Sedimentologica Sinica*, 2015(5): 1023–1032.
- Zheng Liu, Yao-Hui Jiang, Ru-Ya Jia, Peng Zhao & Qing Zhou. 2015. Origin of Late Triassic high-K calc-alkaline granitoids and their potassio microgranular enclaves from the western Tibet Plateau, northwest China: implications for Paleo-Tethys evolution. *Gondwana Research*, 27(1): 326–341.
- Zheng Qinghua & Liu Yiqun. 2015. Genesis and diagenetic lithofacies of tight reservoir of Chang 4+5 Member of Yanchang Formation in Zhenbei, Ordos Basin. *Acta Sedimentologica Sinica*, 2015(5): 1000–1012.
- Zheng Qinghua & Liu Yiqun. 2015. The diagenesis and diagenetic lithofacies of tight reservoir of Chang 4+5 Member of Yanchang Formation in Huaqing area, Ordos Basin. *Advances in Earth Science (Journal of Xidian University)*, 30(1): 78–90.
- Zheng Rong-cai, Li Guo-hui, Chang Hai-liang, Li Shi-lin, Wang Xiao-juan & Wang Chang-yong. 2015. Sedimentary sequence and paleogeographic characteristics of the Upper Triassic Xujiahe Formation in eastern Sichuan Basin. *Geology in China*, 2015(4): 1024–1036.
- Zhe-Xi Luo, Gatesy, S.M., Jenkins, F.A.Jr., Amaral, W.W. & Shubin, N.H. 2015. Mandibular and dental characteristics of Late Triassic mammaliaform *Haramiyavia* and their ramifications for basal mammal evolution. *PNAS*, 112(51): E7101–E7109.
- Zhiqin Xu, Yildirim, D., Hui Cao, Jingsui Yang, Robinson, P., Changqian Ma, Huaci Li, Jolivet, M., Roger, F. & Xijie Chen. 2015. Paleo-Tethyan evolution of Tibet as recorded in the East Cimmerides and West Cathaysides. *Journal of Asian Earth Sciences*, 105: 320–337.
- Zhiwei Bao, Yan Wang, C., Lingjun Zeng, Weidong Sun & Junming Yao. 2015. Slab break-off model for the Triassic syn-collisional granites in the Qinling orogenic belt, Central China: zircon U-Pb age and Hf isotope constraints. *International Geology Review*, 57(4): 492–507.
- Zhiyu Yi, Baochun Huang, Wenjiao Xiao, Leikun Yang & Qingqing Qiao. 2015. Paleomagnetic study of Late Paleozoic rocks in the Tacheng Basin of West Junggar (NW China): implications for the tectonic evolution of the western Altaids. *Gondwana Research*, 27(2): 862–877.
- Zhonghua Tian, Wenjiao Xiao, Jimin Sun, Windley, B.F., Glen, R., Chunming Han, Zhiyong Zhang, Ji'en Zhang, Bo Wan, Songjian Ao & Dongfang Song. 2015. Triassic deformation of Permian Early Triassic arc-related sediments in the Beishan (NW China): last pulse of the accretionary orogenesis in the southernmost Altaids. *Tectonophysics*, 662: 363–384.
- Zhong-Qiang Chen, Hao Yang, Mao Luo, Benton, M.J., Kaiho, K., Laishi Zhao, Yuangeng Huang, Kexin Zhang, Yuheng Fang, Haishui Jiang, Huan Qiu, Yang Li, Chengyi Tu, Lei Shi, Lei Zhang, Xueqian Feng & Long Chen. 2015. Complete biotic and sedimentary records of the Permian-Triassic transition across the Meishan section, South China: ecologically assessing mass extinction and its aftermath. *Earth-*

- Science Reviews, 149: 67–107.
- Zhou Zhi-cheng, Luo Hui, Li Gang, Willems, H., Xu Bo, Cai Hua-wei, Chen Jin-hua, Chen Di-shu & Wang Xue-heng. 2015. Is Annelida—pioneer in Early Triassic biotic recovery? *Acta Palaeontologica Sinica*, 2015(1): 29–42.
- Zhou Zhicheng, Xu Bo, Luo Hui, Willems, H., Cai Huawei, Chen Jinhua, Chen Dishu, Wang Xueheng & Liu Shijia. 2015. Discovery of the serpulid *Spirorbis* from the bottom of the Lower Triassic Feixianguan Formation, Yudongzi section of Jiangyou, Sichuan Province, China and its palaeoecological significances. *Acta Micropalaeontologica Sinica*, 2015(4): 403–410.
- Zhou Zhong-He. 2015. *Panxianichthys imparilis* gen. et sp. nov., a new ionoscopiform (Halecomorphi) from the Middle Triassic of Guizhou, China. *Vertebrata PalAsiatica*, 53 (1): 1–15.
- Zhu Xiaomin, Liu Fen, Zhu Shifa, Xu Liming, Niu Xiaobing & Liang Xiaowei. 2015. On the tectonic property of the provenance area of the Upper Triassic Yanchang Formation in Longdong area, Ordos Basin. *Geological Journal of China Universities*, 2015 (3): 416–425.
- Zi-Fu Zhao, Peng Gao & Yong-Fei Zheng. 2015. The source of Mesozoic granitoids in South China: integrated geochemical constraints from the Taoshan batholith in the Nanling Range. *Chemical Geology*, 395: 11–26.
- Zi-Jin Wang, Wen-Liang Xu, Fu-Ping Pei, Zhi-Wei Wang, Yu Li & Hua-Hua Cao. 2015. Geochronology and geochemistry of middle Permian–Middle Triassic intrusive rocks from central-eastern Jilin Province, NE China: constraints on the tectonic evolution of the eastern segment of the Paleo-Asian Ocean. *Lithos*, 238: 13–25.
- Ziegler, R. & Schoch, R.R. 2015. Synapsiden (Säugerähnliche) im Lettenkeuper. *Palaeodiversity*, Special Issue: 265–266.
- Ziliang Liu, Fang Shen, Xiaomin Zhu, Fengjie Li & Mengqi Tan. 2015. Formation conditions and sedimentary characteristics of a Triassic shallow water braided delta in the Yanchang Formation, southwest Ordos Basin, China. *PLoS ONE*, 10(6): e0119704. doi:10.1371/journal.pone.0119704.
- Zixiang Zhang, Augustin, M. & Payne, J.L. 2015. Phanerozoic trends in brachiopod body size from synoptic data. *Paleobiology*, 41(3): 491–501.
- Zou, X., Balini, M., Jiang, D., Tintori, A., Sun, Z. & Sun, Y. 2015. Ammonoids from the Zhuganpo Member of the Falang Formation at Nimaigu and their relevance for dating the Xingyi Fossil-Lagerstätte (Late Ladinian, Guizhou, China). *Rivista Italiana di Paleontologia e Stratigrafia*, 121(2): 135–161.
- Zulauf, G., Dörr, W., Fisher-Spurlock, S.C., Gerdes, A., Chatzaras, V. & Xypolias, P. 2015. Closure of the Paleotethys in the External Hellenides: constraints from U-Pb ages of magmatic and detrital zircons (Crete). *Gondwana Geology*, 28(2): 642–667.
- Zuo-yu Sun, Lombardo, C., Tintori, A. & Da-yong Jiang. 2015. A new species of *Altisolepis* (Peltopleuriformes, Actinopterygii) from the Middle Triassic of Southern China. *Journal of Vertebrate Paleontology*, 35(2): e909819 (6 pp.). DOI: 10.1080/02724634.2014.909819.
- Additonal (pre-2015) titles not listed previously in Albertiana**
- Ajirlu, M.S. & Moazzen, M. 2014. Role of the Allahyarlu ophiolite in the tectonic evolution of NW Iran and adjacent areas (Late Carboniferous – Recent). *Central European Geology*, 57(4): 363–383.
- Ali, M.Y., Watts, A.B. & Searle, M.P. 2013. Seismic stratigraphy and subsidence history of the United Arab Emirates (UAE) rifted margin and overlying foreland basins. Pp.127–143, *In*: Hosani, K.A., Roure, F., Ellison, R. & Lokier, S. (eds). *Lithosphere Dynamics and Sedimentary Basins: the Arabian Plate and Analogues*. Frontiers in Earth Sciences. Berlin Heidleberg: Springer-Verlag, xx+474pp. DOI: 10.1007/978-3-642-30609-9-6.
- Aljinović, D., Horacek, M., Richoz, S., Jurkovšek, T.K., Jurkovšek, B., Smirčić, D. & Krystyn, L. 2014. The Early Triassic epeiric ramp depositional sequence in the Dinarides. *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 20(1): 8.
- Alsouki, M., Taifour, R. & Al Hamad, O.D. 2014. Delineating the fluvial channel system in the Upper Triassic formation of the Elward area in the Syrian Euphrates Graben using 3-D seismic attributes. *Journal of Petroleum Exploration and Production Technology*, 4(2): 123–132.
- Bohloli, B., Skurtveit, E., Grande, L., Titlestad, G.O., Børresen, M.H., Johnson, Ø. & Braathen, A. 2014. Evaluation of reservoir and cap-rock integrity for the Longyearbyen CO₂ storage pilot based on laboratory experiments and injection tests. *Norwegian Journal of Geology*, 94(2-3): 171–187.
- Bonini, L., Montomoli, C. & Pertusati, P.C. 2013. The Triassic evaporites of Sassalbo and Secchia Valley (Tuscan-Emilian Apennines): geometric and kinematic data. *Atti della Società Toscana di Scienze Naturali – Memorie serie A*, 120: 5–23.
- Boucot, A.J., Chen Xu & Scote, C.R. 2013. Triassic. *In*: Boucot, A.J., Chen Xu & Scote, C.R. (eds) *Phanerozoic Paleoclimate: an atlas of lithologic indicators of climate*. Concepts in Sedimentology and Paleontology, 11: 156–185.
- Brandes, J. & Obst, K. 2009. Isobathic map of the Middle Buntsandstein aquifer complex in NE Germany. *Brandenburgische Geowissenschaftlichen Beiträge*, 21(1/2): 19–28.
- Brandner, R., Krystyn, L., Horacek, M., Aljinović, D. & Smirčić, D. 2014. Die Werfen-Fazies der westlichen Tethys: chemostratigraphie, biochronologische correlation und faziesvergleich zwischen Dinariden und Südalpen. *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 20(1): 31.
- Brandt, S. & Schulz, M. 2013. Zwei neue natante dekapoden aus dem Oberen Muschelkalk (Mittel-Trias, Ladin) des germanischen Beckens – *Antrimpos germanicus* n. sp. und *Parapalaemonetes thuringiacus* n. gen. n. sp. *VERNATE* (Veröffentlichungen des Naturkundemuseums Erfurt), 32: 67–96.
- Buckley, L.G. & Currie, P.J. 2014. Analysis of intraspecific and ontogenetic variation in the dentition of *Coelophysis bauri* (Late Triassic), and implications for the systematics of isolated

- theropod teeth. New Mexico Museum of Natural History & Science Bulletin, 63: vi+73pp.
- Chen Fei, Hu Guangyi, Sun Lichun, Fan Taliang, Gao Zhiqian, Yu Xitong & Pang Zhenglian. 2012. Sedimentary characteristics and the significance of petroleum exploration of sandy debris flows of Yanchang Formation of the Upper Triassic, Fuxian area, Ordos Basin. *Acta Sedimentologica Sinica*, 2012(6): 1042–1052.
- Chen Kegui, Li Li, Li Chunmei, Yu Jing, Wang Lin & Lin Xin. 2014. Evolution of the potash-rich areas in evaporation basin during the epigenetic stage with continental block being active. *Advances in Earth Science (Journal of Xidian University)*, 29(4): 515–522.
- Chen Shijia, Lu Jungang, Yao Zuoli, Yang Guoping, Zhang Jizhi, Liu Chaowei, Tang Haiping & Wang Gang. 2012. Characteristics of reservoir formation and the controlling factors of Chang 8 oil-bearing formation in Huaqing area of Ordos Basin. *Acta Sedimentologica Sinica*, 2012(6): 1130–1139.
- Chen Xinyue, Wang Yuejun, Han Huiping, Zhang Yuzhi, Wen Shunü & Cao Youjin. 2014. Geochemical and geochronological characteristics of Triassic basic dikes in SW Hainan Island and its tectonic implications. *Journal of Jilin University (Earth Science Edition)*, 44(3): 835–847.
- Chen, Y., Kolar-Jurkovšek, T., Jurkovšek, B. & Richoz, S. 2014. A unique Early Triassic conodont sequence from Ziri, Slovenia. *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 20(1): 35.
- Chure, D.J., Good, T.R. & Engelmann, G.F. 2014. A forgotten collection of vertebrate and invertebrate ichnofossils from the Nugget Sandstone (?Late Triassic–?Early Jurassic), near Heber, Wasatch County, Utah. *New Mexico Museum of Natural History & Science Bulletin*, 62: 181–195.
- Collareta, A. & Farina, S. 2014. A new record of Triassic dinosaur footprint from Monte Pisano (Northern Apennines, Italy): true or false? *Atti della Società Toscana di Scienze Naturali – Memorie serie A*, 121: 13–17.
- Costamagna, L.G. 2011. Facies analysis, stratigraphy and petrographic data from the Permian–Middle Triassic Cala Bona – Il Cantaro rock sections (Alghero, NW Sardinia, Italy): contribution to the post-Variscan Nurra Basin evolution. *Atti della Società Toscana di Scienze Naturali – Memorie serie A*, 116: 67–84.
- Dai Chaocheng, Zheng Rongcai, Ren Junping & Zhu Rukai. 2014. Provenance analysis of Xujiahe Formation of Upper Triassic in Sichuan Foreland Basin and its geological implications. *Journal of Jilin University (Earth Science Edition)*, 44(4): 1085–1096.
- Dai Chaocheng, Zheng Rongcai, Zhu Rukai, Zhai Wenliang & Gao Hongcan. 2009. The discovery and significance of seismites from Xujiahe Formation in Sichuan analogous foreland basin. *Advances in Earth Science (Journal of Xidian University)*, 24(2): 172–180.
- El Hadi, H., Tahiri, A., El Maidani, A., Saddiqi, O., Simancas, F., Lodeiro, F.G., Azor, A., Martinez-Poyatos, D., Tahiri, M. & De La Rosa Diaz, J. 2014. Geodynamic setting context of the Permian and Triassic volcanism in the northwestern Moroccan Meseta from petrographical and geochemical data. *Bulletin de l’Institut Scientifique, Rabat, Section Sciences de la Terre*, 36: 55–67.
- Engelmann, G.F., Chure, D.J. & Good, T.R. 2014. Large burrows in the dunes of the Nugget Sandstone, Early Jurassic?, of NE Utah. *New Mexico Museum of Natural History & Science Bulletin*, 62: 197–203.
- Feldberg, K., Schneider, H., Stadler, T., Schäfer-Verwimp, A., Schmidt, A.R. & Heinrichs, J. 2014. Epiphytic leafy liverworts diversified in angiosperm-dominated forests. *Nature Scientific Reports*, 4(5974), doi:10.1038/srep05974.
- Fiorelli, L.E., Ezcurra, M.D., Hechenleitner, E.M., Argañaraz, E., Taborda, J.R.A., Trotteyn, J., Belén von Baczko, M. & Desojo, J.B. 2013. The oldest known communal latrines provide evidence of gregarism in Triassic megaherbivores. *Nature Scientific Reports*, 3(3348), doi:10.1038/srep03348.
- Gawlick, H.-J., Missoni, S. & Suzuki, H. 2014. Radiolarite events in the western Neotethyan realm in Triassic–Jurassic times. *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 20(1): 59.
- Haijun Song, Wignall, P.B., Daoliang Chu, Jinnan Tong, Yadong Sun, Huyue Song, Weihing He & Li Tian. 2014. Anoxia/high temperature double whammy during the Permian-Triassic marine crisis and its aftermath. *Nature Scientific Reports*, 4(4132), doi:10.1038/srep04132.
- Harrison, J.C. & Jackson, M.P.A. 2014. Tectonostratigraphy and allochthonous salt tectonics of Axel Heiberg Island, central Sverdrup Basin, Arctic Canada. *Geological Survey of Canada, Bulletin* 607: 134pp.
- Heindel, K., Birgel, D., Richoz, S., Brandner, R., Baud, A., Krystyn, L., Horacek, M., Mohtat, T., Koşun, E. & Peckmann, J. 2014. Early Triassic formation of microbialites on the margins of the Neotethys. *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 20(1): 83.
- Horacek, M. & Brandner, R. 2014. Pronounced carbonate deposition in the early Triassic Induan Stage: who were the carbonate producers? *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 20(1): 95.
- Horacek, M., Krystyn, L., Brandner, R. & Parcha, S. 2014. The Early Triassic in the Gurjul ravine (Kashmir/India). *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 20(1): 96.
- Huang Yunfei & Tong Jinnan. 2014. Advancement of studies on the Permian-Triassic bivalves. *Advances in Earth Science (Journal of Xidian University)*, 29(8): 922–933.
- Huang Keke, Huang Sijing, Lan Yefang & Hu Zuowei. 2013. Review of the carbon isotope of Early Triassic carbonates. *Advances in Earth Science (Journal of Xidian University)*, 28(3): 357–365.
- Huang Sijing, Gong Yechao, Huang Keke & Tong Hongpeng. 2010. The influence of burial history on carbonate dissolution and precipitation – a case study from Feixianguan Formation of Triassic, NE Sichuan and Ordovician carbonate of northern Tarim Basin. *Advances in Earth Science (Journal of Xidian University)*, 25(4): 381–390.

- Hutchinson, C.S. 2014. Tectonic evolution of Southeast Asia. *Bulletin of the Geological Society of Malaysia*, 60: 1–18.
- Ibarra, Y., Corsetti, F.A., Greene, S.E. & Bottjer, D.J. 2014. Microfacies of the Coatham Marble: a tubestone microbialite from the Upper Triassic, southwestern U.K. *Palaios*, 29(1): 1–5.
- Jaselli, L. 2014. The first occurrence of ophiuroids (Ophiuroidea, Echinodermata) in the Early Triassic of Lombardy (Northern Italy). *Atti della Società Toscana di Scienze Naturali – Memorie serie A*, 121: 47–54.
- Jia Kai-fu, Dai Jun-sheng, Liu Hai-lei & Wang Ke. 2011. Architectural element analysis of the braided delta reservoir sandstones from the Triassic Lower Oil Measures in the Tahe Oil Field, Xinjiang. *Sedimentary Geology and Tethyan Geology*, 31(4): 64–69.
- Johnson, H. & Quinn, M. 2013. Permian and Triassic. In: Hitchen, K., Johnson, H. & Gatliff, R.W. (eds). *Geology of the Rockall Basin and adjacent areas*. British Geological Survey Research Report, RR/12/03, Keyworth, Nottingham: British Geological Survey: 61–66.
- Jones, M.E.H., Anderson, C.L., Hipsley, C.A., Müller, J., Evans, S.E. & Schoch, R.R. 2013. Integration of molecules and new fossils supports a Triassic origin for Lepidosauria (lizards, snakes, and tuatara). *BMC Evolutionary Biology*, 13: 208 (21pp.).
- Jun Liu, Shi-xue Hu, Rieppel, O., Da-yong Jiang, Benton, M.J., Kelley, N.P., Aitchison, J.C., Chang-yong Zhou, Wen Wen, Jin-yuan Huang, Tao Xie & Tao Lv. 2014. A gigantic nothosaur (Reptilia: Sauropterygia) from the Middle Triassic of SW China and its implication for the Triassic biotic recovery. *Nature Scientific Reports*, 4(7142), doi:10.1038/srep07142.
- Krystyn, L., Đacović, M., Horacek, M., Lein, R., Čađenović, D. & Radulović, N. 2014. Pelagically influenced Late Permian and Early Triassic deposits of Montenegro: a remnant of Internal Dinarid Neotethys or Paleotethys relict? *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 20(1): 114.
- Lai Jin, Wang Guiwen, Chen Yangyang, Huang Longxing, Zhang Lili, Wang Di, Sun Yanhui & Li Mei. 2014. Diagenetic facies and prediction of high quality reservoir of Member 2 of Xujiahe Formation in Penglai area, central Sichuan Basin. *Journal of Jilin University (Earth Science Edition)*, 44(2): 432–445.
- Li Xiangbo, Fu Jinhua, Chen Qilin, Liu Xianyang & Liu Huaqing. 2011. The concept of sandy debris flow and its application in the Yanchang Formation deep water sedimentation of the Ordos Basin. *Advances in Earth Science (Journal of Xidian University)*, 26(3): 286–294.
- Liu Jun, Luo Shun-she, Tian Qing-hua & Deng Hong-mei. 2013. Sedimentary facies of the Chang-6 oil reservoirs in the Dingbian-Wuqi region, Ordos Basin. *Sedimentary Geology and Tethyan Geology*, 33(1): 42–48.
- Liu Shusheng, Fan Wenyu, Luo Maojin, Tang Fawei, Zhu Huaping & Chen Wenfeng. 2014. Zircon U-Pb dating and geochemistry characteristics of the bimodal volcanic rocks in Phlaythong area, southern Laos. *Journal of Jilin University (Earth Science Edition)*, 44(2): 540–553.
- Liuping Zhang, Maowen Li, Yang Wang, Qing-Zhu Yin & Wenzheng Zhang. 2013. A novel molecular index for secondary oil migration distance. *Nature Scientific Reports*, 3(2487), doi:10.1038/srep02487.
- Lu Baoliang, Wang Pujun, Liang Jianshe, Sun Xiaomeng & Wang Wanyin. 2014. Structural properties of Paleo-South China Sea and their relationship with the Tethys and the Paleo-Pacific tectonic domain. *Journal of Jilin University (Earth Science Edition)*, 44(5): 1441–1450.
- Lucas, S.G., Szajna, M.J., Lockley, M.G., Fillmore, D.L., Simpson, E.L., Klein, H., Boyland, J. & Hartline, B.W. 2014. The Middle-Late Triassic tetrapod footprint ichnogenus *Gwynnedichnium*. *New Mexico Museum of Natural History & Science Bulletin*, 62: 135–156.
- Lukeneder, S. & Lukeneder, A. 2014. Susceptibility- and gamma-ray spectrometry-data used for stratigraphic correlations: case study on Upper Triassic beds in Turkey. *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 20(1): 128.
- MacFarlan, D.A.B., Hasibuan, F. & Grant-Mackie, J.A. 2011. Mesozoic brachiopods of Misool Archipelago, eastern Indonesia. *Australasian Palaeontological Memoirs*, 41: 149–177.
- Mannion, P.D. 2014. Patterns in palaeontology: the latitudinal biodiversity gradient. *Palaeontology Online*, 4, article 3, 1–8.
- Mannion, P.D., Upchurch, P., Benson, R.B.J. & Goswami, A. 2014. The latitudinal biodiversity gradient through deep time. *Trends in Ecology and Evolution*, 29(1): 42–50.
- McElwain, J.C. 2014. Climate change and mass extinction: what can we learn from 200-million-year-old plants? *Open University Geological Society Journal*, 35(1–2): 1–4.
- McKie, T. 2014. Climatic and tectonic controls on Triassic dryland terminal fluvial system architecture, central North Sea. *International Association of Sedimentologists, Special Publication*, 46: 19–58.
- Minzoni, M., Lehrmann, D.J., Payne, J., Enos, P., Meiyi Yu, Jiayong Wei, Kelley, B., Xiaowei Li, Schaal, E., Meyer, K., Montgomery, P., Goers, A. & Wood, T. 2014. Triassic tank: platform margin and slope architecture in space and time, Nanpanjiang Basin, South China. *SEPM Special Publication*, 105: 84–113.
- Missoni, S., Gawlick, H.J., Richoz, S., Gorican, S., Prochaska, W., Lein, R. & Krystyn, L. 2014. Geochemistry and tectonostratigraphy of a Carnian-Norian open-marine Hallstatt limestones section in the Budva Zone (Montenegro). *Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz*, 20(1): 142.
- Moser, M. 2014. Die Tremmlgraben-Formation – eine neue Beckenentwicklung in der Mitteltrias der Mürzalpen-Decke. *Jahrbuch der Geologische Bundesanstalt Wien*, 154(1–4): 199–207.
- Moser, M. 2014. Ein neues Vorkommen von Annaberger Kalk in den niederösterreichischen Kalkalpen. *Jahrbuch der Geologische Bundesanstalt Wien*, 154(1–4): 209–212.
- Nader, A.D. & Kddo, Y.H. 2012. Two new miospores species from Triassic-Jurassic boundary in Borehole Tel Hajar-1

- South West Mosul City, Iraq. Iraqi National Journal of Earth Sciences, 12(3): 79–85.
- Nader, A.D. & Kddo, Y.H. 2014. Palynostratigraphy, aged determination and paleoecology of Butmah Formation in borehole Kand-1 northern Iraq. Iraqi National Journal of Earth Sciences, 14(1): 33–48.
- Neenan, J.M. 2014. Placodonts. Palaeontology Online, 4, article 6, 1–5.
- Neenan, J.M., Klein, N. & Scheyer, T.M. 2013, European origin of placodont marine reptiles and the evolution of crushing dentition in Placodontia. Nature Communications, 4, Article 1621. DOI: 10.1038/ncomms2633.
- Orchard, M.J. 2014. Conodonts from the Carnian-Norian boundary (Upper Triassic) of Black Bear Ridge, northeastern British Columbia, Canada. New Mexico Museum of Natural History & Science Bulletin, 64: 139pp.
- Pássaro, E.M., Hessel, M.H. & de Araújo Nogueira Neto, J. 2014. Main archives of paleontology of Brazil. Anuário do Instituto de Geociências – UFRJ, 37(2): 48–59.
- Price, G.D., Twitchett, R.J., Wheeley, J.R. & Buono, G. 2013. Isotopic evidence for long term warmth in the Mesozoic. Nature Scientific Reports, 3(1438), doi:10.1038/srep01438.
- Quinn, M. & Ziska, H. 2011. Permian and Triassic. In: Ritchie, J.D., Ziska, H., Johnson, H. & Evans, D. (eds). Geology of the Faroe-Shetland Basin & adjacent areas. British Geological Survey Research Report, RR/11/01, Keyworth, Nottingham: British Geological Survey; Jardfeingi Research Report, RR/11/01, Tórshavn, Faroe Islands: Jardfeingi (Faroese Earth & Energy Directorate): 92–102.
- Rein, S. 2009. Stratigraphie und fossilführung des Oberen Muschelkalks bei Eisenack und Jena. VERNATE (Veröffentlichungen des Naturkundemuseums Erfurt), 28: 31–50.
- Rein, S. 2010. Die stellung der chronospezies *Ceratites evolutus* in der Ceratitenphylogene – ergebnisse einer populationsanalyse. VERNATE (Veröffentlichungen des Naturkundemuseums Erfurt), 29: 5–24.
- Rein, S. 2011. Biologie der ceratiten der *enodis/posseckeri* Zone – variabilität und autökologische potenz. VERNATE (Veröffentlichungen des Naturkundemuseums Erfurt), 30: 29–48.
- Richoz, S., Krystyn, L., Chen, Y., Algeo, T.J. & Bhargava, O.N. 2014. Integrative stratigraphy during the Early Triassic biotic recovery time. Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz, 20(1): 182.
- Richoz, S., Krystyn, L., Galbrun, B., Boulila, S., Heilig, P., Bartolini, A. & Gardin, S. 2014. Numerous bioevents prior the end Triassic mass-extinction co-occur with a stable carbon cycle under orbital control. Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz, 20(1): 183.
- Roghi, G., Kustatscher, E., Bernardi, M., Dal Corso, J., Forte, G., Franz, M., Hochuli, P., Krainer, K., Petti, F.M., Ragazzi, E., Riva, A., Wappler, T. & Gianolla, P. 2014. Field trip to Permo-Triassic palaeobotanical and palynological sites of the southern Alps. Geo.Alp, 11: 29–84.
- Schmieder, M., Jourdan, F., Tohver, E. & Cloutis, E.A. 2014. $^{40}\text{Ar}/^{39}\text{Ar}$ age of the Lake Saint Martin impact structure (Canada) – unchaining the Late Triassic terrestrial impact craters. Earth and Planetary Science Letters, 406: 37–48.
- Schuh, M. 2014. Berichte 2013 über geologische Aufnahmen in den Nördlichen Kalkalpen am Südhang des Pölvenmassivs und im mittleren Wilden Kaiser auf Blatt 3213 Kufstein. Jahrbuch der Geologische Bundesanstalt Wien, 154(1–4): 339–343.
- Seidel, G. 2014. Zur Geschichte der regionalgeologischen Erforschung des Südwestthüringischen Triasgebietes seit der Spezialkartierung. Semana (Veröffentlichungen des Naturhistorischen Museums Schleusingen), 29: 61–70.
- Senobari-Daryan, B. 2014. *Spongiomorpha ramosa* FRECH (1890), eine weitere obertriassische anthaspidellid demospongea. Jahrbuch der Geologische Bundesanstalt Wien, 154(1–4): 193–198.
- Şengör, A.M.C. 2014. Die Korrespondenz zwischen Albert Oppel und Friedrich Rolle als Schlüssel zu Eduard Sueß' Bedeutung bei der Korrelation der Kössener Schichten. Jahrbuch der Geologische Bundesanstalt Wien, 154(1–4): 213–246.
- Shen Wenjie, Zhang Hua, Sun Yongge, Lin Yangting, Liang Ting & Yang Zhijun. 2012. Evidences for the Permian-Triassic wildfire event: review and appraisal. Advances in Earth Science (Journal of Xidian University), 27(6): 613–623.
- Steiner, M. 2014. Major publications of Maureen B. Steiner. Volumina Jurassica, 12(2): 5–10.
- Steiner, M. 2014. New magnetostratigraphy and paleopole from the Whitmore Point Member of the Moenave Formation at Kanab, Utah. Volumina Jurassica, 12(2): 13–22.
- Szente, I. 2014. Berichte 2012 über geologische Untersuchungen von untertriassischen Fossilien in den Werfener Schichten auf Blatt 97 Bad Mitterndorf. Jahrbuch der Geologische Bundesanstalt Wien, 154(1–4): 285–286.
- Tao Wei, Liang Wentian & Zhang Guowei. 2014. Magnetic fabric features and its significance of the Late Triassic Yanzhiba Pluton, South Qinling. Journal of Jilin University (Earth Science Edition), 44(5): 1575–1586.
- Thies, D., Vespermann, J. & Solcher, J. 2014. Two new neoselachian sharks (Elasmobranchii, Neoselachii, Synechodontiformes) from the Rhaetian (Late Triassic) of Europe. Palaeontographica Abt. A, 303(4–6): 137–167.
- Thomson, T.J., Heckert, A.B. & Chure, D.J. 2014. First report of reptile tracks from the Moenkopi Formation (Lower - ?Middle Triassic) in Dinosaur National Monument, Utah. New Mexico Museum of Natural History & Science Bulletin, 62: 129–134.
- Thomson, T.J. & Lovelace, D.M. 2014. Swim track morphotypes and new track localities from the Moenkopi and Red Peak formations (Early Middle Triassic) with preliminary interpretations of aquatic behaviours. New Mexico Museum of Natural History & Science Bulletin, 62: 103–128.
- Velledits, F., Csizmeg, J. & Oravecs-Scheffer, A. 2014. Re-evaluation of the Triassic sequence in the subsurface of the Little Plain Basin Hungary: a case study from the Győrszemere-2 well. Central European Geology, 57(4): 345–362.
- Viegas, P.A. & Benton, M.J. 2014. The Bristol Dinosaur Project – a conservation and preparation overview. Journal

- of Paleontological Techniques, 13: 50–64.
- Vörös, A. 2014. Ammonoid diversification in the Middle Triassic: examples from the Tethys (eastern Lombardy, Balaton Highland) and the Pacific (Nevada). Central European Geology, 57(4): 319–343.
- Vršič, A., Missoni, S., Gawlick, H.-J. & Smuc, A. 2014. Microfacies analysis, isotope stratigraphy, organic geochemistry and crush-leach analysis of the Late Triassic Raibl Group (Julian Alps, NW Slovenia). Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz, 20(1): 217.
- Waksmundzka, M. 2014. Mesozoic spores of Poland — a revision of selected taxa. Biuletyn Państwowego Instytutu Geologicznego, 460: 25–88.
- Wang Guan, Sun Fengyue, Li Bile, Li Shijin, Zhao Junwei & Yang Qi'an. 2014. Zircon U-Pb geochronology and geochemistry of diorite in Xiarihamu ore district from East Kunlun and its geological significance. Journal of Jilin University (Earth Science Edition), 44(3): 876–891.
- Wegerer, E. & Wessely, G. 2014. Middle Triassic facies arrangement of the Lindkogel area (Lower Austria) related to the variation of Calcareous Alpine reservoir rock conditions. Berichte des Institutes für Erdwissenschaften der Karl-Franzens-Universität Graz, 20(1): 221.
- Wehrmann, A., Gerdes, G. & Hofling, R. 2012. Microbial mats in a Lower Triassic siliciclastic playa environment (Middle Buntsandstein, North Sea). SEPM Special Publication, 101: 177–190.
- Werneburg, R., Kogan, I. & Sell, J. 2014. *Saurichthys* (Pisces: Actinopterygii) aus dem Buntsandstein (Trias) des germanischen Beckens. Semana (Veröffentlichungen des Naturhistorischen Museums Schleusingen), 29: 3–35.
- Whidden, K.J., Dumoulin, J.A., Whalen, M.T., Hutton, E., Moore, T.E. & Gaswirth, S.B. 2014. Distal facies variability within the Upper Triassic part of the Otuk Formation in northern Alaska. SEPM Special Publication, 105: 384–405.
- Xiao Chuantao, Gong Li & Liang Wenjun. 2014. Research on paleoecology of Middle Permian-Middle Triassic in the western Sichuan Basin. Advances in Earth Science (Journal of Xidian University), 29(7): 819–827.
- Xin Bushe, Yang Hua, Wang Duoyun, Fu Jinhua, Yao Jingli, Luo Anxiang & Zhang Yu. 2013. SHRIMP U-Pb age and its stratigraphic significance of tuff at the Baojisha area, Jingyuan County, Gansu Province. Advances in Earth Science (Journal of Xidian University), 28(9): 1043–1048.
- Ya Sheng Wu, Gong Liang Yu, Ren Hui Li, Li Rong Song, Hong Xia Jiang, Riding, R., Li Jing Liu, Dong Yan Liu & Rui Zhao. 2014. Cyanobacterial fossils from 252 Ma old microbialites and their environmental significance. Nature Scientific Reports, 4(3820), doi:10.1038/srep03820.
- Yang Wei, Yi Hai-sheng, Du Qiu-ding, Xia Guo-qing & Da Xue-juan. 2011. REE and trace elements U and Th from the manganese-bearing rock series in the Middle Triassic Falang Formation in southeastern Yunnan. Sedimentary Geology and Tethyan Geology, 31(4): 104–110.
- Zhang Yinguo & Liang Jie. 2014. Sedimentary system characteristics and their sedimentary evolution from the Permian to the Triassic in the Southern Yellow Sea Basin. Journal of Jilin University (Earth Science Edition), 44(5): 1406–1418.
- Zhong-Qiang Chen, Algeo, T.J. & Bottjer, D.J. 2014. Editorial, Global review of the Permo-Triassic mass extinction and subsequent recovery: Part I. Earth-Science Reviews, 137: 1–5.
- Zi-Fu Zhao, Li-Qun Dai & Yong-Fei Zheng. 2013. Postcollisional mafic igneous rocks record crust-mantle interaction during continental deep subduction. Nature Scientific Reports, 3(3413), doi:10.1038/srep03413.
- Zwenger, W. 2009. Lithostratigraphy of the Lower Muschelkalk of Ruedersdorf near Berlin (Middle Triassic, Anisian). Brandenburgische Geowissenschaftlichen Beiträge, 21(1/2): 29–53.

