

# 21 Prof. Michael Joachimski



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## Research Interests

Ancient climate, Carbon cycle, Biological mineralization

## Services

Head Stable Isotope Laboratory

Member Studiausschuss Geowissenschaften

Member Prüfungsausschuss Geowissenschaften

Palaeogeography, Palaeoclimatology, Palaeoecology: 2014-present

Journal of Earth Science: 2013 - present

Palaeobiodiversity and Palaeoenvironments: 2011- present

## Major Publications

- Zambito, J., Joachimski, M. M., Brett, C., Baird G., Aboussalam, Z.S. (2016): A Carbonate Carbon Isotope Record for the Late Givetian (Middle Devonian) Global Taghanic Biocrisis in the Type Region (Northern Appalachian Basin.- Geol. Soc. London, Spec. Publ., 423, <http://dx.doi.org/10.1144/SP423.7>
- Chen, J., Shen, S. Z. ; Li, X., Xu, Y., Joachimski, M. M., Bowring, S. A., Erwin, D. A., ; Yuan, D., Chen, B., Zhang, H., Wang, Y., Cao, C., Zheng, Q., Mu, L. (2016): High resolution SIMS oxygen isotope analysis on conodont apatite from South China and implications for the end-Permian mass extinction.- *Palaeogeograph. Palaeoclimat. Palaeoecol.* 448, 26-38. doi:10.1016/j.palaeo.2015.11.025
- Bonin, A., Puc at, E., Vennin, E., Mattioli, E., Aurel, M., Joachimski, M., Barbarin, N., Laffont, R., (2016): Cool episode and platform demise in the Early Aptian: New insights on the links between climate and carbonate production.- *Paleoceanography*, 31, 66-80. doi: 10.1002/2015PA002835
- Wang, Z. H., Becker, R. T., Aboussalam, Z. S., Hartenfels, S., Joachimski, M. M., Gong, Y. M. (2016): Conodont and carbon isotope stratigraphy near the Frasnian/Famennian (Devonian) boundary at Wulankeshun, Junggar Basin, NW China.- *Palaeogeography, Palaeoecology, Paleoclimatology*, 448, 279-297. 10.1016/j.palaeo.2015.12.029
- Chen, B., Joachimski, M. M., Wang, X. D. Shen, S., Qi, Y., Qie, W. (2016): Ice volume and paleoclimate history of the Late Paleozoic ice age from conodont apatite oxygen isotopes from Naqing (Guizhou, China).- *Palaeogeography, Palaeoecology, Palaeoclimatology*, 448, 151-161. 10.1016/j.palaeo.2016.01.00
- Wignall, P. B., Bond, D., Sun, Y., Grasby, S. E., Beauchamp, B., Joachimski, M. M., Blomeier, D. (2016): Ultra-shallow-marine anoxia in an Early Triassic shallow-marine clastic ramp

- (Spitsbergen) and the suppression of benthic radiation.- *Geol. Magazine*, 153,316-331.  
<http://dx.doi.org/10.1017/S0016756815000588>
- Jiang, H., Joachimski, M., Wignall, P., Zhang, M., Lai, X. (2015): A delayed end-Permian extinction in deep-water locations and its relationship to temperature trends (Bianyang, Guizhou Province, South China). *Palaeogeograph. Palaeoclimat. Palaeoecol.*, 440, 690-695.  
<http://dx.doi.org/10.1016/j.palaeo.2015.10.002>
- Kastenmeier, P., Balassone, G., Boni, M., di Maio, G., Joachimski, M. (2015): Provenance, distribution and trade of the local building materials in the Sarno river plain (Campania) from the 6th century BC to AD 79.- *Proceedings of the Tenth International Conference of ASMOSIA - Association for the Study of Marble & Other Stones in Antiquity Rome*, 21-26 May 2012, 179-184.
- Brahimsamba, B., Deconinck, J. F., Puc at, E., Am edro, F., Joachimski, M. M. (2015): Isotopic seawater temperatures in the Albian Gault Clay of the Boulonnais (Paris Basin): Palaeoenvironmental implications.- *Proceedings of the Geologists' Association*, doi:10.1016/j.pgeola.2015.08.005
- Jakubowicz, M., Berkowski, B., L opez Correa, M., Jarochovska, E., Joachimski, M., Belka, Z. (2015): Stable isotope signatures of Middle Palaeozoic ahermatypic rugose corals - Deciphering secondary alteration, vital fractionation effects, and palaeoecological implications:- *PlosOne*, 10.1371/journal.pone.0136289
- Joachimski, M. M., Lambert, L. L. (2015): Salinity contrast in the US Midcontinent Sea during Pennsylvanian glacio-eustatic highstands: evidence from conodont apatite  $\delta^{18}O$ .- *Palaeogeograph. Palaeoclimat. Palaeoecol.*, 433, 71-80. doi:10.1016/j.palaeo.2015.05.014
- Buggisch, W., Krainer, K., Schaffhauser, M., Joachimski, M. M., Korte, C. (2015): Late Carboniferous to Late Permian carbon isotope stratigraphy: a new record from post-Variscan carbonates from the Southern Alps (Austria and Italy).*Palaeogeograph. Palaeoclimat. Palaeoecol.*, 433, 174-190. doi:10.1016/j.palaeo.2015.05.012
- Bond, D., Wignall, D., Joachimski, M. M., Sun, Y., Savov, Y., Grasby, S., Beauchamp, D., Blomeier, D., (2015): An abrupt extinction in the Middle Permian (Capitanian) of the boreal realm (Spitsbergen) and its link to anoxia and ocean acidification.- *Geological Society of America., Bull.*, 127, 1411-1421 [10.1130/B31216.1](http://dx.doi.org/10.1130/B31216.1)
- Santoro, L., Boni, M., Mondillo, N., Joachimski, M. M., Woodman, J. (2015): A Cold Supergene Zinc Deposit in Alaska: the Reef Ridge case.- *Geological Society of America, Bull.*127, 1534-1549. <http://dx.doi.org/10.1130/B31219.1>.
- Sun J., Wignall, P. B., Joachimski, M. M., Bond, D. P., Grasby, S. E., Sun, Si, Yan, C., Wang, L., Chen, Y., Lai, X. (2015): High amplitude redox changes in the late Early Triassic of South China and the Smithian/Spathian extinction.- *Palaeogeograph. Palaeoclimat. Palaeoecol.*, 427,62-78.<http://dx.doi.org/10.1016/j.palaeo.2015.03.038>
- Fryda, J., Lehnert, O., Joachimski, M. M. (2015): First record of the early Sheinwoodian carbon isotope excursion (ESCIE) from the Barrandian area of northwestern Perigondwana.- *Estonian Journal of Earth Sciences*,64, 42-46.doi:10.3176/earth.2015.08
- Wu, R. C., Calner, M., Lehnert, O., Peterfy, O., Joachimski, M. M. (2015): Lower-Middle Ordovician  $\delta^{13}C$  chemostratigraphy of western Baltica (J amtland, Sweden).- *Palaeoworld*, 24, 110-122 doi:10.1016/j.palwor.2015.01.003.
- Mormone, A., Troise, C., Piochi, M., Ballasone, G., Joachimski, M. M., de Natale, G. (2015):

Mineralogical, geochemical and isotopic features of tuffs from the CFDDP drill hole: hydrothermal activity in the eastern side of the Campi Flegrei volcano (southern Italy).- Journal of Volcanology and Geothermal Research, 290, 39-52.  
doi:10.1016/j.jvolgeores.2014.12.003