

Peer-reviewed publications / GeoZentrum Nordbayern

2013 to 2017

2017

1. Alberti, M., Fürsich, F.T., Abdelhady, A.A. and Andersen, N. (2017) Middle to Late Jurassic equatorial seawater temperatures and latitudinal temperature gradients based on stable isotopes of brachiopods and oysters from Gebel Maghara, Egypt. *Palaeogeography, Palaeoclimatology, Palaeoecology* 468, 301-313.
2. Arfè, G., Boni, M., Balassone, G., Mondillo, N., Hinder, G. and Joachimski, M. (2017) New C[¹³]O isotopic data on supergene minerals from the Skorpion and Rosh Pinah ore deposits (Namibia): Genetic and paleoclimatic constraints. *Journal of African Earth Sciences* 126, 148-158.
3. Bergold, S.T., Goetz-Neunhoeffler, F. and Neubauer, J. (2017) Interaction of silicate and aluminate reaction in a synthetic cement system: Implications for the process of alite hydration. *Cement Concrete Res* 93, 32-44.
4. Barth, J.A.C., Mader, M., Nanning, F., van Geldern, R. and Friese, K. (2017) Stable isotope mass balances versus concentration differences of dissolved inorganic carbon – implications for tracing carbon turnover in reservoirs. *Isotopes in Environmental and Health Studies*, 1-14.
5. Clements, T., Colleary, C., De Baets, K., Vinther, J. and Brayard, A. (2017) Buoyancy mechanisms limit preservation of coleoid cephalopod soft tissues in Mesozoic Lagerstätten. *Palaeontology* 60, 1-14.
6. Dusek, J., Vogel, T., Dohnal, M., Barth, J.A.C., Sanda, M., Marx, A. and Jankovec, J. (2017) Dynamics of dissolved organic carbon in hillslope discharge: Modeling and challenges. *Journal of Hydrology* 546, 309-325.
7. Fürsich, F.T., Alberti, M., Pandey, D.K. and Rai, J. (2017) Event beds or condensed unit? Analysis of a wood-log concentration in the Upper Jurassic of the Kachchh Basin, western India. *Palaeogeography, Palaeoclimatology, Palaeoecology* 466, 406-415.
8. Girard, C., Cornée, J.J., Charruault, A.L., Corradini, C., Weyer, D., Bartzsch, K., Joachimski, M. and Feist, R. (2017) Conodont biostratigraphy and palaeoenvironmental trends during the Famennian (Late Devonian) in the thuringian buschteich section (Germany). *Newsletters on Stratigraphy* 50, 71-89.
9. Gischler, E., Heindel, K., Birgel, D., Brunner, B., Reitner, J. and Peckmann, J. (2017) Cryptic biostalactites in a submerged karst cave of the Belize Barrier Reef revisited: Pendant bioconstructions cemented by microbial micrite. *Palaeogeography, Palaeoclimatology, Palaeoecology* 468, 34-51.
10. Hethke, M., Fürsich, F.T., Schneider, S. and Jiang, B. (2017) Sex determination of the Early Cretaceous clam shrimp *Eosestheria middendorffii* (Yixian Formation, China). *Lethaia* 50, 105-121.
11. Hong, T., Gao, J., Xu, X.W., You, J., Wang, X.S., Li, H. and Ke, Q. (2017) The tectonic evolution of the Irtysh tectonic belt: New zircon U–Pb ages of arc-related and collisional granitoids in the Kalaxiangar tectonic belt, NW China. *Lithos* 272-273, 46-68.
12. Jansen, D., Spies, A., Neubauer, J., Ectors, D. and Goetz-Neunhoeffler, F. (2017) Studies on the early hydration of two modifications of ye'elimite with gypsum. *Cement Concrete Res* 91, 106-116.
13. Jarochovska, E., Viira, V., Einasto, R., Nawrot, R., Bremer, O., Männik, P. and Munnecke, A. (2017) Conodonts in Silurian hypersaline environments: Specialized and unexpectedly diverse. *Geology* 45, 3-6.
14. Li, Q., Li, Y. and Kiessling, W. (2017) The oldest labechiid stromatoporoids from intraskeletal crypts in lithistid sponge–Calathium reefs. *Lethaia* 50, 140-148.
15. Roelofs, B., Barham, M., Cliff, J., Joachimski, M., Martin, L. and Trinajstić, K. (2017) Assessing the fidelity of marine vertebrate microfossil $\delta^{18}\text{O}$ signatures and their potential for palaeo-ecological and -climatic reconstructions. *Palaeogeography, Palaeoclimatology, Palaeoecology* 465, 79-92.
16. Sun, Y.D., Liu, X.T., Yan, J.X., Li, B., Chen, B., Bond, D.P.G., Joachimski, M.M., Wignall, P.B., Wang, X. and Lai, X.L. (2017) Permian (Artinskian to Wuchapingian) conodont biostratigraphy in the Tieqiao section, Laibin area, South China. *Palaeogeography, Palaeoclimatology, Palaeoecology* 465, 42-63.
17. Warren, L.V., Varejão, F.G., Quaglio, F., Simões, M.G., Fürsich, F.T., Poiré, D.G., Catto, B. and Assine, M.L. (2017) Stromatolites from the Aptian Crato Formation, a hypersaline lake system in the Araripe Basin, northeastern Brazil. *Facies* 63.

18. Younes, H., Calner, M. and Lehnert, O. (2017) The first continuous $\delta^{13}\text{C}$ record across the Late Silurian Lau Event on Gotland, Sweden. *Gff* 139, 63-69.
19. Zong, K., Klemd, R., Yuan, Y., He, Z., Guo, J., Shi, X., Liu, Y., Hu, Z. and Zhang, Z. (2017) The assembly of Rodinia: The correlation of early Neoproterozoic (ca. 900 Ma) high-grade metamorphism and continental arc formation in the southern Beishan Orogen, southern Central Asian Orogenic Belt (CAOB). *Precambrian Research* 290, 32-48.

2016

1. Adomat, F., Munnecke, A. and Kido, E. (2016) Mass occurrence of the large solitary rugose coral *Phaulactis angusta* at the boundary Lower/Upper Visby Formation in the Silurian of Gotland, Sweden: palaeoecology and depositional implications. *Gff*, 1-17.
2. Alberti, M., Fürsich, F.T. and Pandey, D.K. (2016) First record of a xiphosuran trackway (*Kouphichnium* isp.) from the Jurassic of India. *Palaontologische Zeitschrift*, 1-14.
3. Abu Khatita, A.M., de Wall, H. and Koch, R. (2016) Anthropogenic particle dispersions in topsoils of the Middle Nile Delta: a preliminary study on the contamination around industrial and commercial areas in Egypt. *Environ Earth Sci* 75, 1-19.
4. Amberg, C.E.A., Collart, T., Salenbien, W., Egger, L.M., Munnecke, A., Nielsen, A.T., Monnet, C., Hammer, O. and Vandenbroucke, T.R.A. (2016) The nature of Ordovician limestone-marl alternations in the Oslo-Asker District (Norway): Witnesses of primary glacio-eustasy or diagenetic rhythms? *Sci Rep-Uk* 6.
5. Anderson, M.O., Hannington, M.D., Haase, K., Schwarz-Schampera, U., Augustin, N., McConachy, T.F. and Allen, K. (2016) Tectonic focusing of voluminous basaltic eruptions in magma-deficient backarc rifts. *Earth Planet Sc Lett* 440, 43-55.
6. Arculus, R.J., Ishizuka, O., Bogus, K.A., Gurnis, M., Hickey-Vargas, R., Aljehdali, M.H., Bandini-Maeder, A.N., Barth, A.P., Brandl, P.A., Drab, L., Do Monte Guerra, R., Hamada, M., Jiang, F., Kanayama, K., Kender, S., Kusano, Y., Li, H., Loudin, L.C., Maffione, M., Marsaglia, K.M., McCarthy, A., Meffre, S., Morris, A., Neuhaus, M., Savov, I.P., Sena, C., Tepley, F.J., Van Der Land, C., Yogodzinski, G.M. and Zhang, Z. (2016) Reply to 'Unclear causes for subduction'. *Nat Geosci* 9, 338-339.
7. Attermeyer, K., Flury, S., Jayakumar, R., Fiener, P., Steger, K., Arya, V., Wilken, F., Van Geldern, R. and Premke, K. (2016) Invasive floating macrophytes reduce greenhouse gas emissions from a small tropical lake. *Sci Rep-Uk* 6.
8. Baier, A., van Geldern, R., Löhr, G., Subert, H.L. and Barth, J.A.C. (2016) Groundwater units and their potential for development at Nuremberg, Germany. *Grundwasser* 21, 253-266.
9. Basharat, M., Ali, A., Jadoon, I.A.K. and Rohn, J. (2016) Using PCA in evaluating event-controlling attributes of landsliding in the 2005 Kashmir earthquake region, NW Himalayas, Pakistan. *Nat Hazards* 81, 1999-2017.
10. Bergold, S.T., Goetz-Neunhoeffler, F. and Neubauer, J. (2016) Influence of the reactivity of the amorphous part of mechanically activated alite on its hydration kinetics. *Cement Concrete Res* 88, 73-81.
11. Bestmann, M., Pennacchioni, G., Mostefaoui, S., Goken, M. and de Wall, H. (2016) Instantaneous healing of micro-fractures during coseismic slip: Evidence from microstructure and Ti in quartz geochemistry within an exhumed pseudotachylite-bearing fault in tonalite. *Lithos* 254, 84-93.
12. Bomou, B., Deconinck, J.F., Pucéat, E., Amédéo, F., Joachimski, M.M. and Quillévéré, F. (2016) Isotopic seawater temperatures in the Albian Gault Clay of the Boulonnais (Paris Basin): palaeoenvironmental implications. *Proceedings of the Geologists' Association* 127, 699-711.
13. Bonin, A., Pucéat, E., Vennin, E., Mattioli, E., Aurell, M., Joachimski, M., Barbarin, N. and 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.
14. Brandl, P.A., Regelous, M., Beier, C., O'Neill, H.S., Nebel, O. and Haase, K.M. (2016) The timescales of magma evolution at mid-ocean ridges. *Lithos* 240, 49-68.
15. Chaabane, S., López Correa, M., Montagna, P., Kallel, N., Taviani, M., Linares, C. and Ziveri, P. (2016) Exploring the oxygen and carbon isotopic composition of the Mediterranean red coral (*Corallium rubrum*) for seawater temperature reconstruction. *Marine Chemistry* 186, 11-23.
16. Chandrajith, R., Diyabalanage, S., Premathilake, K.M., Hanke, C., van Geldern, R. and Barth, J.A.C. (2016) Controls of evaporative irrigation return flows in comparison to seawater intrusion in coastal karstic aquifers in northern Sri Lanka: Evidence from solutes and stable isotopes. *Sci Total Environ* 548-549, 421-428.
17. Chen, B., Joachimski, M.M., Wang, X.D., Shen, S.Z., Qi, Y.P. and Qie, W.K. (2016a) Ice volume and paleoclimate history of the Late Paleozoic Ice Age from conodont apatite oxygen isotopes from Naqing (Guizhou, China). *Palaeogeography, Palaeoclimatology, Palaeoecology* 448, 151-161.

18. Chen, J., Shen, S.Z., Li, X.H., Xu, Y.G., Joachimski, M.M., Bowring, S.A., Erwin, D.H., Yuan, D.X., Chen, B., Zhang, H., Wang, Y., Cao, C.Q., Zheng, Q.F. and Mu, L. (2016b) High-resolution SIMS oxygen isotope analysis on conodont apatite from South China and implications for the end-Permian mass extinction. *Palaeogeography, Palaeoclimatology, Palaeoecology* 448, 26-38.
19. Clements, T., Colleary, C., De Baets, K. and Vinther, J. (2016) Buoyancy mechanisms limit preservation of coleoid cephalopod soft tissues in Mesozoic Lagerstätten. *Palaeontology*.
20. Daesslé, L.W., van Geldern, R., Orozco-Durán, A. and Barth, J.A.C. (2016) The 2014 water release into the arid Colorado River delta and associated water losses by evaporation. *Sci Total Environ* 542, 586-590.
21. De Baets, K., Antonelli, A. and Donoghue, P.C.J. (2016) Tectonic blocks and molecular clocks. *Philos T R Soc B* 371.
22. Dera, G., Toumoulin, A. and De Baets, K. (2016) Diversity and morphological evolution of Jurassic belemnites from South Germany. *Palaeogeogr Palaeocl* 457, 80-97.
23. Ectors, D., Goetz-Neunhoeffler, F., Hergeth, W.D., Dietrich, U. and Neubauer, J. (2016) In situ 1H-TD-NMR: Quantification and microstructure development during the early hydration of alite and OPC. *Cement Concrete Res* 79, 366-372.
24. Ernst, A., Seuss, B., Taylor, P.D. and Nützel, A. (2016) Bryozoan fauna of the Boggy Formation (Deese Group, Pennsylvanian) of the Buckhorn Asphalt Quarry, Oklahoma, USA. *Palaeobiodiversity and Palaeoenvironments*, 1-24.
25. Faggetter, L.E., Wignall, P.B., Pruss, S.B., Sun, Y., Raine, R.J., Newton, R.J., Widdowson, M., Joachimski, M.M. and Smith, P.M. (2016) Sequence stratigraphy, chemostratigraphy and facies analysis of Cambrian Series 2 – Series 3 boundary strata in northwestern Scotland. *Geol Mag*, 1-13.
26. Filimonau, V. and Barth, J.A.C. (2016) From Global to Local and Vice Versa: On the Importance of the 'Globalization' Agenda in Continental Groundwater Research and Policy-Making. *Environ Manage* 58, 491-503.
27. Fürsich, F.T., Alberti, M., Pandey, D.K. and Rai, J. (2016a) Event beds or condensed unit? Analysis of a wood-log concentration in the Upper Jurassic of the Kachchh Basin, western India. *Palaeogeography, Palaeoclimatology, Palaeoecology*.
28. Fürsich, F.T., Pan, Y., Wilmsen, M. and Majidifard, M.R. (2016b) Biofacies, taphonomy, and paleobiogeography of the Kamar-e-Mehdi formation of east-central Iran, a middle to upper Jurassic shelf lagoon deposit. *Facies* 62.
29. Fürsich, F.T. and Pan, Y.H. (2016) Diagenesis of bivalves from Jurassic and Lower Cretaceous lacustrine deposits of northeastern China. *Geol Mag* 153, 17-37.
30. Fürsich, F.T., Pan, Y.H. and Wang, Y.Q. (2016c) Biostratigraphy of bivalves from Jurassic and Early Cretaceous lakes of NE China. *Palaeoworld* 25, 399-405.
31. Fürsich, F.T., Pan, Y.H., Wilmsen, M. and Majidifard, M.R. (2016) Biofacies, taphonomy, and paleobiogeography of the Kamar-e-Mehdi Formation of east-central Iran, a Middle to Upper Jurassic shelf lagoon deposit. *Facies* 62.
32. García Molinos, J., Halpern, B.S., Schoeman, D.S., Brown, C.J., Kiessling, W., Moore, P.J., Pandolfi, J.M., Poloczanska, E.S., Richardson, A.J. and Burrows, M.T. (2016) Climate velocity and the future global redistribution of marine biodiversity. *Nat Clim Change* 6, 83-88.
33. Genske, F.S., Beier, C., Stracke, A., Turner, S.P., Pearson, N.J., Hauff, F., Schaefer, B.F. and Haase, K.M. (2016) Comparing the nature of the western and eastern Azores mantle. *Geochim Cosmochim Acta* 172, 76-92.
34. Goncalves, P., Brandt, S., Nicollet, C. and Tucker, R. (2016) Comment on "Evolution of high-pressure mafic granulites and pelitic gneisses from NE Madagascar: Tectonic implications". *Tectonophysics*, 662, 219-242 (2015) by Ishwar-Kumar et al. *Tectonophysics*.
35. Haase, K.M., Beier, C., Regelous, M., Rapprich, V. and Renno, A. (2016a) Spatial variability of source composition and petrogenesis in rift and rift flank alkaline lavas from the Eger Rift, Central Europe. *Chem Geol*.
36. Haase, K.M., Brandl, P.A., Devey, C.W., Hauff, F., Melchert, B., Garbe-Schönberg, D., Kokfelt, T.F. and Paulick, H. (2016b) Compositional variation and 226Ra-230Th model ages of axial lavas from the southern Mid-Atlantic Ridge, 8°48'S. *Geochemistry, Geophysics, Geosystems* 17, 199-218.
37. Haase, K.M., Freund, S., Beier, C., Koepke, J., Erdmann, M. and Hauff, F. (2016c) Constraints on the magmatic evolution of the oceanic crust from plagiogranite intrusions in the Oman ophiolite. *Contrib Mineral Petr* 171.
38. Habermann, J.M., McHenry, L.J., Stollhofen, H., Tolosana-Delgado, R., Stanistreet, I.G. and Deino, A.L. (2016a) Discrimination, correlation, and provenance of Bed I tephrostratigraphic markers, Olduvai Gorge, Tanzania, based on multivariate analyses of phenocryst compositions. *Sedimentary Geology* 339, 115-133.

39. Habermann, J.M., Stanistreet, I.G., Stollhofen, H., Albert, R.M., Bamford, M.K., Pante, M.C., Njau, J.K. and Masao, F.T. (2016b) In situ ~2.0 Ma trees discovered as fossil rooted stumps, lowermost Bed I, Olduvai Gorge, Tanzania. *J Hum Evol* 90, 74-87.
40. Hertel, T., Neubauer, J. and Goetz-Neunhoeffler, F. (2016) Study of hydration potential and kinetics of the ferrite phase in iron-rich CAC. *Cement Concrete Res* 83, 79-85.
41. Hethke, M., Fürsich, F.T., Schneider, S. and Jiang, B. (2016) Sex determination of the Early Cretaceous clam shrimp *Eosestheria middendorffii* (Yixian Formation, China). *Lethaia*.
42. Hueller, F., Ectors, D., Neubauer, J. and Goetz-Neunhoeffler, F. (2016) Influence of crystallinity and surface area on the hydration kinetics of CA_{2} . *Cement Concrete Res* 89, 136-144.
43. Hurle, K., Christel, T., Gbureck, U., Moseke, C., Neubauer, J. and Goetz-Neunhoeffler, F. (2016a) Reaction kinetics of dual setting α -tricalcium phosphate cements. *Journal of Materials Science: Materials in Medicine* 27, 1-13.
44. Hurle, K., Neubauer, J. and Goetz-Neunhoeffler, F. (2016b) Influence of Sr^{2+} on Calcium-Deficient Hydroxyapatite Formation Kinetics and Morphology in Partially Amorphized α -TCP. *J Am Ceram Soc* 99, 1055-1063.
45. Jarochowska, E., Bremer, O., Heidlas, D., Pröpster, S., Vandenbroucke, T.R.A. and Munnecke, A. (2016a) End-Wenlock terminal Mulde carbon isotope excursion in Gotland, Sweden: Integration of stratigraphy and taphonomy for correlations across restricted facies and specialized faunas. *Palaeogeography, Palaeoclimatology, Palaeoecology* 457, 304-322.
46. Jarochowska, E., Hierl, F., Munnecke, A. and Vinn, O. (2016b) Reducing taxonomic noise in problematic fossils: Revision of the incertae sedis genus *allonema* based on shape analysis. *B Geosci* 91, 97-110.
47. Jarochowska, E. and Munnecke, A. (2016) Late Wenlock carbon isotope excursions and associated conodont fauna in the Podlasie Depression, eastern Poland: a not-so-big crisis? *Geological Journal* 51, 683-703.
48. Jarochowska, E., Munnecke, A., Frisch, K., Ray, D.C. and Castagner, A. (2016c) Faunal and facies changes through the mid Homeric (late Wenlock, Silurian) positive carbon isotope excursion in Podolia, western Ukraine. *Lethaia* 49, 170-198.
49. Jerram, D.A., Widdowson, M., Wignall, P.B., Sun, Y., Lai, X., Bond, D.P.G. and Torsvik, T.H. (2016) Submarine palaeoenvironments during Emeishan flood basalt volcanism, SW China: Implications for plume-lithosphere interaction during the Capitanian, Middle Permian ('end Guadalupian') extinction event. *Palaeogeography, Palaeoclimatology, Palaeoecology* 441, 65-73.
50. Kaur, P., Zeh, A., Okrusch, M., Chaudhri, N., Gerdes, A. and Brätz, H. (2016) Separating regional metamorphic and metasomatic assemblages and events in the northern Khetri complex, NW India: Evidence from mineralogy, whole-rock geochemistry and U-Pb monazite chronology. *Journal of Asian Earth Sciences* 129, 117-141.
51. Keith, M., Haase, K.M., Klemd, R., Krumm, S. and Strauss, H. (2016a) Systematic variations of trace element and sulfur isotope compositions in pyrite with stratigraphic depth in the Skouriotissa volcanic-hosted massive sulfide deposit, Troodos ophiolite, Cyprus. *Chem Geol* 423, 7-18.
52. Keith, M., Haase, K.M., Klemd, R., Schwarz-Schampera, U. and Franke, H. (2016b) Systematic variations in magmatic sulphide chemistry from mid-ocean ridges, back-arc basins and island arcs. *Chem Geol*.
53. Keith, M., Häckel, F., Haase, K.M., Schwarz-Schampera, U. and Klemd, R. (2016c) Trace element systematics of pyrite from submarine hydrothermal vents. *Ore Geol Rev* 72, 728-745.
54. Klaus, S.R., Neubauer, J. and Goetz-Neunhoeffler, F. (2016) Influence of the specific surface area of alumina fillers on CAC hydration kinetics. *Adv Cem Res* 28, 62-70.
55. Klimke, J., Franke, D., Gaedicke, C., Schreckenberger, B., Schnabel, M., Stollhofen, H., Rose, J. and Chaheire, M. (2016) How to identify oceanic crust—Evidence for a complex break-up in the Mozambique Channel, off East Africa. *Tectonophysics* 693, 436-452.
56. Klug, C., De Baets, K. and Korn, D. (2016) Exploring the Limits of Morphospace: Ontogeny and Ecology of Late Viséan Ammonoids from the Tafilalt, Morocco. *Acta Palaeontol Pol* 61, 1-14.
57. Kong, X., Pakusch, J., Jansen, D., Emmerling, S., Neubauer, J. and Goetz-Neunhoeffler, F. (2016) Effect of polymer latexes with cleaned serum on the phase development of hydrating cement pastes. *Cement Concrete Res* 84, 30-40.
58. Kröger, B., Ebbestad, J.O.R. and Lehnert, O. (2016) Accretionary mechanisms and temporal sequence of formation of the boda limestone mud-mounds (upper Ordovician), Siljan District, Sweden. *J Sediment Res* 86, 363-379.
59. Lehnert, O., Nowak, H., Sarmiento, G.N., Gutiérrez-Marco, J.C., Akodad, M. and Servais, T. (2016) Conodonts from the Lower Ordovician of Morocco — Contributions to age and faunal diversity of the Fezouata Lagerstätte and peri-Gondwana biogeography. *Palaeogeography, Palaeoclimatology, Palaeoecology* 460, 50-61.

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61. Li, J.L., Gao, J., Klemm, R., John, T. and Wang, X.S. (2016a) Redox processes in subducting oceanic crust recorded by sulfide-bearing high-pressure rocks and veins (SW Tianshan, China). *Contrib Mineral Petr* 171.
62. Li, J.L., Klemm, R., Gao, J. and John, T. (2016b) Poly-cyclic Metamorphic Evolution of Eclogite: Evidence for Multistage Burial-Exhumation Cycling in a Subduction Channel. *J Petrol* 57, 119-146.
63. Li, Q., Li, Y. and Kiessling, W. (2016c) The oldest labechiid stromatoporoids from intraskeletal crypts in lithistid sponge-Calathium reefs. *Lethaia*.
64. Li, Q., Li, Y., Zhang, Y. and Munnecke, A. (2016d) Dissecting Calathium-microbial frameworks: The significance of calathids for the Middle Ordovician reefs in the Tarim Basin, northwestern China. *Palaeogeography, Palaeoclimatology, Palaeoecology*.
65. Liu, C., Jarochovska, E., Du, Y., Vachard, D. and Munnecke, A. (2016) Stratigraphical and $\delta^{13}\text{C}$ records of Permo-Carboniferous platform carbonates, South China: Responses to late Paleozoic icehouse climate and icehouse-greenhouse transition. *Palaeogeography, Palaeoclimatology, Palaeoecology*.
66. Luo, J., Zhao, H., Gui, S., Xiang, W. and Rohn, J. (2016a) Comparison of ground temperature response of energy pile and borehole heat exchanger during thermal response tests. *Environ Earth Sci* 75.
67. Luo, J., Zhao, H., Gui, S., Xiang, W., Rohn, J. and Blum, P. (2016b) Thermo-economic analysis of four different types of ground heat exchangers in energy piles. *Applied Thermal Engineering* 108, 11-19.
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70. Mühlberg, M., Hegner, E., Klemm, R., Pfänder, J.A., Kaliwoda, M. and Biske, Y.S. (2016) Late Carboniferous high-pressure metamorphism of the Kassan Metamorphic Complex (Kyrgyz Tianshan) and assembly of the SW Central Asian Orogenic Belt. *Lithos* 264, 41-55.
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72. Okrusch, M., Ertl, A., Schüssler, U., Tillmanns, E., Brätz, H. and Bank, H. (2016) Major- and trace-element composition of Paraíba-type Tourmaline from Brazil, Mozambique and Nigeria. *Journal of Gemmology* 35, 120-139.
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