

Recent Publications
by Staff of
the Dept. of Geodynamics & Geomaterials Research
(only selected internationally peer reviewed publications)
(Members of the department are shown in bold)

2014

Bayet-Goll, A.; **Geyer, G.**; Wilmsen, M.; Mahboubi, A.; Moussavi-Harami, R. (2014): Facies architecture, depositional environments, and sequence stratigraphy of the Middle Cambrian Fasham and Deh-Sufiyan Formations in the central Alborz, Iran, 2014, *Facies*, DOI 10.1007/s10347-014-0401-9

Frimmel, H.E. (2014): A giant Mesoarchean crustal gold-enrichment episode: possible causes and consequences for exploration: Society of Economic Geologist, Special Publication, 18, in press

Frimmel, H.E.; Schedel, S.; Brätz, H. (2014): Uraninite chemistry as forensic tool for provenance analysis, *Appl Geochem*, in press

Geyer, G.; Vincent, T. (2014): The Paradoxides puzzle resolved: the appearance of the oldest paradoxidines and its bearing on the Cambrian Serie 3 lower boundary, 2014, *Paläontol*, DOI 10.1007/s12542-014-0225-5

Geyer, G.; Bayet-Goll, A.; Wilmsen, M.; Mahboubi, A.; Moussavi-Harami, R. (2014): Lithostratigraphic revision of the middle Cambrian (Serie 3) and upper Cambrian Furongian) in northern and central Iran, 2014, *Newsletters on Stratigraphy*, 47/1, 21-59

Geyer, G.; Peel, J.S.; Streng, M.; Voigt, S.; Fischer, J.; Preuß, M. (2014): A remarkable Amgan (Middle Cambrian, Stage 5) fauna from the Sauk Tanga, Madygen region, Kyrgyzstan, 2014, *Bull. Geosci.*, DOI 10.3140/bull.geosci. 1434

Höhn, S.; Frimmel, H.E.; Pasava, J. (2014): The rare earth element potential of kaolin deposits in the Bohemian Massif (Czech Republic, Austria), *Mineralium Deposita*, 49, in press

Landing, E.; **Geyer, G.;** Buchwaldt, R.; Bowring, S.A. (2014): Geochronology of the Cambrian: a precise Middle Cambrian U-Pb zircon date from the German margin of West Gondwana, 2014, *Geological Magazine*, April 2014, pp 1-13

Okrusch, M.; Matthes S. (2014): *Mineralogie - Eine Einführung in die spezielle Mineralogie, Petrologie und Lagerstättenkunde*, 9. Auflage, Springer, Heidelberg, 728 p.

Prakash, D.; Deepak, C.S.P.; Singh, C.K.; Arima, M.; **Frimmel, H.E.** (2014): High-pressure and ultrahigh-temperature metamorphism at Diguva Sonaba, Eastern Ghats Mobile Belt (India): new constraints from phase equilibria modelling, *Geological Magazine*, in press.

Will, T.M.; Frimmel, H.E.; Gaucher, C.; Bossi, J. (2014): Geochemical and isotopic composition of Pan-African metabasalts from southwestern Gondwana: Evidence of Cretaceous South Atlantic opening along a Neoproterozoic back-arc, 2014, *Lithos*, 202-203, 363-381

2013

Cabral, A.R.; **Koglin, N.;** Strauss, H.; Brätz, H.; Kwitko-Ribeiro, R. (2013): Regional sulfate-hematite-sulfide zoning in the auriferous Mariana anticline, Quadrilátero Ferrífero of Minas Gerais, Brazil. *Mineralium Deposita* 48, 805-816

- Cabral, A.R.; **Koglin, N.** (2013): Hydrothermal overprint on Cenozoic sediments in the Quadrilátero Ferrífero of Minas Gerais: implications for precious metals in cratonic terrains. *Terra Nova* 26, 111-119
- Depiné, M.; Frimmel, H.E.;** Emsbo, P.; Koenig, A.E. (2013): Trace element distribution in uraninite from Mesoarchaeon Witwatersrand conglomerates (South Africa) supports placer model and magmatogenic source, *Mineralium Deposita* 48, 423-435
- Elicki, O.; **Geyer, G.** (2013): The Cambrian trilobites of Jordan - taxonomy, systematic and stratigraphic significance, *Acta Geologica Polonica* 63, 1-56
- Ertl, A.; Giester, G.; **Schüßler, U.;** Brätz, H.; **Okrusch, M.;** Tillmanns, E.; Bank, H. (2013): Cu- and Mn-bearing tourmalines from Brazil and Mozambique: Crystal structure, chemistry and correlations, *Mineralogy and Petrology*, 107, 265-279
- Frimmel, H. E.;** Basei, M. A.S.; Correa, V. X.; Mbangula, N. (2013): A new lithostratigraphic subdivision and geodynamic model for the Pan-African western Saldania Belt, South Africa, *Precambrian Res.* 231, 218-235
- Frimmel, H.E.;** **Depinè, M.;** Emsbo, P.; Koenig, A.E.; Kern, M. (2013): Reply to comments by T. Oberthür on "Trace element distribution in uraninite from Mesoarchaeon Witwatersrand conglomerates (South Africa) supports placer model and magmatogenic source", *Mineralium Deposita* 48, 1051-1053
- Gradmann, R.;** Hasenmayer, M.; Berthold, C.; **Schüßler, U.** (2013): Funde von Chevronperlen in den frühneuzeitlichen Glashütten Neulautern und Walkersbach im Schwäbisch-Fränkischen Wald. In: Hauptman, A.; Mecking, O.; Prange, M. (eds): *Archäometrie und Denkmalpflege 2013, Metalla, Sonderheft 6*, 289-293
- Höhn, S.;** Falkenstein, F.; **Schüßler, U.** (2013): Archäometrische Untersuchungen an Felsgesteinsartefakten aus der urnenfelderzeitlichen Höhensiedlung Bullenheimer Berg. In: Hauptman, A.; Mecking, O.; Prange, M. (eds): *Archäometrie und Denkmalpflege 2013, Metalla, Sonderheft 6*, 205-209
- Kaur, P.; Chaudhri, N.; Hofmann, A.W.; Raczek, I.; **Okrusch, M.** (2013): Geochemistry and Sm-Nd geochronology of the metasomatised mafic rocks in the Khetri complex, Rajasthan, NW India: Evidence of an Early Cryogenian metasomatic event in the northern Aravalli orogen *Journal of Asian Earth Sciences* 62, 401-413
- Kaur, P.; Zeh, A.; Chaudhri, N.; Gerdes, A.; **Okrusch, M.** (2013): Nature of magmatism and sedimentation at a Columbia active margin: Insights from combined U-Pb und Lu-Hf isotope data of detrital zircons from NW India, *Gondwana Research* 23, 1040-1052
- Kounov, A.; Viola, G.; Dunkl, I.; **Frimmel, H.E.** (2013): Southern African perspectives on the long-term morphotectonic evolution of cratonic interiors, *Tectonophysics* 601, 177-191
- Landing, E.; **Geyer, G.;** Brasier, M. D.; Bowring, S. A. (2013): Cambrian evolutionary radioation: context, correlation, and chronostratigraphy - overcoming deficiencies of the first appearance datum (FAD) concept, *Earth Science Reviews* 123, 133-172
- Mildner, S.;** **Schüßler, U.;** Falkenstein, F.; Brätz, H. (2013): Bronzezeitliches Glas zwischen Alpen-kamm und Ostsee - Erste Ergebnisse einer archäometrischen Bestandsaufnahme. - In: Hauptmann, A.; Mecking, O.; Prange, M. (eds): *Archäometrie und Denkmalpflege - Kurzberichte 2013, Metalla, Sonderheft 6*, 246-250
- Mosoh, Bambi C.K.;** **Frimmel, H.E.;** Zeh, A.; Suh, C.E. (2013): Age and origin of Pan-African granites and associated U-Mo mineralization at Ekome'dion, southwestern Cameroon; *Journal of African Earth Sciences* 88, 15-37

Pasava, J.; **Frimmel, H.**; Vymazalová, A.; Dobes, P.; Jukov, A.V.; Koneev, R.I. (2013): A two-stage evolution model for the Amantaytau orogenic-type gold deposit in Uzbekistan, *Mineralium Deposita* 48, 825-840

Paz, B.; Rosner, M.; Vogl, J.; Becker, A.; **Schüßler, U.** (2013): Materialanalytische Untersuchung von islamischen Gläsern aus dem abbasidischen Palastkomplex von Ar-Raqqa. In: Hauptman, A.; Mecking, O.; Prange, M. (eds): *Archäometrie und Denkmalpflege* 2013, Metalla, Sonderheft 6, 262-263

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Will, T. M.; Frimmel, H. E. (2013): The influence of inherited structures on dike emplacement during Gondwana breakup in southwestern Africa, *The Journal of Geology* 121, 455-474

2012

Cabral A.R.; **Koglin, N.**; Brätz, H., (2012): Iridium enrichment and poor fractionation from gold, platinum and palladium in clausthalite (PbSe), Tilkerode, eastern Harz, Germany. *Mineralogy and Petrology* 105, 113–119

Cabral, A.R.; Zeh, A.; **Koglin, N.**; Gomes Jr. A.A.S.; Viana, D.J.; Lehmann, B. (2012): Dating the Itabira iron formation, Quadrilátero Ferrífero of Minas Gerais, Brazil, a 2.65 Ga: Depositional U-Pb age of zircon from a metavolcanic layer

Cabral, A.R.; Wiedenbeck, M.; **Koglin, N.**; Lehmann, B.; de Abreu, F.R. (2012): Boron-isotopic constraints on the petrogenesis of hematitic phyllite in the southern Serra do Espinhaço, Minas Gerais, Brazil, *Lithos* 140-141, 224–233

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