

Seznam publikací a výsledků za rok 2022

List of publications in 2022

Odborný IF článek (10x)

Loche M, Scaringi G, **Blahůt J**, **Hartvich F** (2022) Investigating the Potential of Infrared Thermography to Inform on Physical and Mechanical Properties of Soils for Geotechnical Engineering. *Remote Sensing*. 14(16):4067. <https://doi.org/10.3390/rs14164067>

Bruthansová J, Bruthans J, Van Iten H, Rak Š, **Schweigstilllová J** (2022) Monospecific mass associations of *Anaconularia anomala* (Cnidaria, Scyphozoa) from the Upper Ordovician of the Czech Republic: sedimentological and palaeobiological significance. *Lethaia* 55(2):1–18. <https://doi.org/10.18261/let.55.2.7>

Slavík M, Bruthans J, **Schweigstilllová J** (2023) Evaporation rate from surfaces of various granular rocks: Comparison of measured and calculated values. *Science of the Total Environment*, 856(2):159114. <https://doi.org/10.1016/j.scitotenv.2022.159114>

Baroň I, Plan L, Grasemann B, Melichar R, Mitrović-Woodell I, **Rowberry M**, Scholz D: Three large prehistoric earthquakes in the Eastern Alps evidenced by cave rupture and speleothem damage. *Geomorphology* 408: 108242. <https://doi.org/10.1016/j.geomorph.2022.108242>

Grasemann B, Plan L, **Baroň I**, Scholz D (2022): Co-seismic deformation of the 2017 Mw 6.6 Bodrum–Kos earthquake in speleothems of Korakia Cave (Pserimos, Dodecanese, Greece). *Geomorphology* 402: 108137. <https://doi.org/10.1016/j.geomorph.2022.108137>

Nguyễn T-T, Dong JJ, Tseng C-H, **Baroň I**, Chen C-V, Pai C-C (2022): Three-Dimensional Engineering Geological Model and Its Applications for a Landslide Site: Combination of Grid- and Vector-Based Methods. *Water* 2022, 14(19): 2941. <https://doi.org/10.3390/w14192941>

Szczygieł J, **Baroň I**, Melichar R, Plan L, Mitrović-Woodell I, Kaminsky E, Scholz D, Grasemann B (in print): Post-Miocene tectonics of the Northern Calcareous Alps. *Scientific Reports – Nature*.

Baroň I, Koktavý P, Trčka T, **Rowberry M**, **Stemberk J**, **Balek J**, Plan L, Melichar R, Diendorfer G, Macků R, Škarvada P (in print) Differentiating between artificial and natural sources of electromagnetic radiation at a seismogenic fault. *Engineering Geology*.

Dal Moro G, **Stemberk J** (2022) Tools for the efficient analysis of surface waves from active and passive seismic data: exploring an NE-Italy perilagoon area with significant lateral variations. *Earth, Planets and Space* 74:140. <https://doi.org/10.1186/s40623-022-01698-z>

Kusák M (2022) Application of fractal and multifractal analysis on Blue Nile drainage patterns in the morphostructural analysis of the Ethiopian highlands, Ethiopia. *Progress in Physical Geography: Earth and Environment* 46(3):357–370. <https://doi.org/10.1177/03091333211059419>

Odborný článek recenzovaný (2x)

Gunn J, **Rowberry M**, Smith A (2021) Exploring the impact of tourists on cave air temperatures: a Covid-19 case study from Poole's Cavern, Derbyshire, UK. *Cave & Karst Science* 48: 121-128.

Rowberry M, Gunn J (2022) Atmospheric pressure anomalies at the British Cave Science Centre triggered by catastrophic volcanic eruption in Tonga on 15 January 2022. *Cave & Karst Science* 49: 14-18.

Kapitola v odborné knize (4x)

Blahůt J, Klimeš J, Meletlidis S, Balek J, Rowberry M, Baroň I (in print) A decade of monitoring and research on the San Andrés megalandslide on El Hierro, Canary Islands, Spain. *Advances in Natural Hazards and Volcanic Risks: Shaping a Sustainable Future - Proceedings of the 3rd International Workshop on Natural Hazards (NATHAZ22), Terceira Island - Azores 2022, Springer ASTI Series.*

Blahůt J, Racek O (in print) Modern Methods of Rock Mass Characterisation and Rock Fall Monitoring: A Review. In Thambidurai P, Singh TN (eds) *Landslides: Detection, Monitoring and Prediction – Technological Developments.* Springer

Racek O, Blahůt J (in print) Rock Mass Characterization and Rockfall Monitoring: Traditional Approaches. In Thambidurai P, Singh TN (eds) *Landslides: Detection, Monitoring and Prediction – Technological Developments.* Springer

Rowberry M, Klimeš J, Blahůt J, Balek J, Kusák M (2022) A global database of giant landslides on volcanic islands. *Progress in Landslide Research and Technology, Volume 1, Issue 1.* Springer, 9783031169007. https://doi.org/10.1007/978-3-031-16898-7_22