

Seznam publikací za rok 2025 / List of Publications in 2025

V. Strunga, V. Havránek, J. Lorinčík, K. Sihelská, P. Krist, Martina Havelcová, B. Čejková, J. Mizera, 2025. Radiation-enhanced fluid diffusion and alteration around uraniferous inclusions in Cenomanian resinite from North Bohemia. *Chemical Geology* 673, 122554.
<https://doi.org/10.1016/j.chemgeo.2024.122554> IF 3.6, Q1

Daniela Řimnáčová, V. Natherová, T. Lokajíček, M. Metružálek, A. Aminzadeh, M. Racek, R. Přikryl, 2024. Thermally induced degradation of Westerly granite microstructure documented by dynamic elastic properties and pore space and damage characteristics. *Bulletin of Engineering Geology and the Environment*, 83 (12), 518. <https://doi.org/10.1007/s10064-024-04011-2> IF 4.2, Q2

V. Suchý, K. Pachnerová Brabcová, J. Zachariáš, I. Světlík, Q. Luo, J. Wu, Lenka Borecká, 2025. Bridging the gap: Anatomy of recently growing calcareous crusts in the Bohemian Karst (Czech Republic). *Sedimentary Geology* 477, 106821. <https://doi.org/10.1016/j.sedgeo.2025.106821> IF 2.7, Q1

Alexandra Malhocká, Martina Švábová, Tomáš Suchý, 2025. Chemotaxonomy according to leaf terpenes of eight cypress species growing in the Czech Republic in the light of modern phylogenetic classification. *Biochemical Systematics and Ecology* 120, 104980.
<https://doi.org/10.1016/j.bse.2025.104980> IF 2, Q3

Švábová, M., Šváb, M., Vorokhta, M., Pohořelý, M., 2025. Evaluation of micropollutant removal from artificially recharged water using activated carbon. *J. Hazard. Mater.* 494, 138504.
<https://doi.org/10.1016/j.jhazmat.2025.138504> IF 11.3, Q1

Jiří Mizera, O. Bakhmachuk, V. Strunga, V. Procházka, 2025. Clues on the Australasian impact crater site inferred from detailed mineralogical study of a monazite inclusion in a Muong Nong tektite. *Geology* 53, e582. <https://doi.org/10.1130/G53049C.1> IF 4.6, Q1

Nádaskay, R., Opluštil, S., Martínek, K., Šimůnek, Z., Zajíc, J., Drábková, J., Podzimková, P., Sýkorová, I., 2025. Climatically-driven cessation of coal formation in tropical Pangea around the Pennsylvanian-Permian boundary; an example from alluvial-lacustrine succession of the Líně Formation (Czechia). *International Journal of Coal Geology*, 300, 1-31.
<https://doi.org/10.1016/j.coal.2025.104694>. IF 5.7, Q1

Maryna Vorokhta, M.I.M. Kusdhany, M. Vorokhta, Martina Švábová, M. Nishihara, K. Sasaki, S.M. Lyth, 2025. Acetone adsorption on hierarchically porous carbon foams: Effect of nitrogen doping and oxygen functional groups. *Chemical Engineering Journal*, 521, 166784.
<https://doi.org/10.1016/j.cej.2025.166784>. IF 13.2, Q1.

L. Blanco-Redondo, Y. Lobko, A.M. Darabut, J. Nováková, T.N. Dinhová, Maryna Vorokhta, M.G. Rogríguez, M. Dopita, M. Mazur, J. Hraníček, Y. Yakovlev, T. Hrbek, V. Matolín, I. Matolínová, 2026. Effect of titanium-based supports on the electrochemical activity and stability of iridium nanoparticle catalysts for OER in PEM water electrolyzer. *Renewable Energy*, 256, 124295. <https://doi.org/10.1016/j.renene.2025.124295>. IF 9.1, Q1.

Issa M., Andrejkovičová S., Zribi M., Daniela Řimnáčová, Oliveira M. S. A., Pálková H., Rocha F., Baklouti S., 2025. Development of Compacted Alkali Activated Materials based on Phosphate Waste Washing Sludge and Natural Clay, *Construction and Building Materials*, 494, 143403. <https://doi.org/10.1016/j.conbuildmat.2025.143403> . IF 8, Q1, 1D

Lokajicek T., Přikryl R., Racek; Daniela Řimnáčová, Petružálek M., Svitek T., Aminzadeh A. Natherova V., 2025. Influence of Thermal Loading on Microcrack Evolution and Elastic Anisotropy in Westerly Granite. *Rock Mechanics and Rock Engineering*. DOI:10.1007/s00603-025-04939-1 . IF 6.6, Q1, 1D

Alexandra Malhocká, Martina Švábová. Inter and intraspecies variability of terpene profiles of four spruce species growing in the Czech Republic: a chemotaxonomic study. *Biochemical Systematics and Ecology* 123, 105095. <https://doi.org/10.1016/j.bse.2025.105095> IF 2, Q3.

Daniela Řimnáčová, Perná I., Novotná M., Šupová M., Nováková M., Bičáková O., 2025. Activated Carbon–Geopolymer Composites: Influence of Particle Size and Content on CO₂ Adsorption and Mechanical and Thermal Properties. *Crystals*, 15, 892. <https://doi.org/10.3390/cryst15100892> IF 2.4, Q2

Lokajíček T., Daniela Řimnáčová., Petružálek M., Přikryl R., Natherova V., Racek M., Aminzadeh A., 2024. Westerly Granite Study of Physical and Transport Properties Monitored by P and S Waves on Spherical Samples: Effect of Temperature and Hydrostatic Pressure, *American Rock Mechanics Association U.S., Rock mechanics/Geomechanics Symposium, ARMA-2024-0553*, DOI:<https://doi.org/10.56952/ARMA-2024-0553>

Katarína Holcová, Martina Havelcová, S. Shaikh, M. Chroustová, K. Šarinová, F. Scheiner, P. Kraft, Ivana Sýkorová, R. Milovský, 2025. Early Pleistocene fossil seagrass assemblages on Rhodes Island – a proof of allochthonous origin. *Continental Shelf Research* 105594. <https://doi.org/10.1016/j.csr.2025.105594> IF 2.2, Q2

M.I.M. Kusdhany, Maryna Vorokhta, K. Sasaki, M. Nishihara, S.M. Lyth. Solvent driven pore engineering in coffee-derived activated hydrochar: Implications for post-combustion CO₂ capture, 2026. *Carbon Energy* (Accepted). IF 24.2, Q1.

René M., 2025. Introduction chapter: Ore Geology–Significant part of geosciences. – In: René M. (ed.) *Ore Geology*, IntechOpen, London, 1–6.

René M., 2025. Alteration of durbachites and U-Th mineralization in the durbachites of the Třebíč pluton, Czech Republic. In: René M. (ed.) *Ore Geology*, IntechOpen, London, 115–129.