

## Oddělení geochemie – Seznam publikací v roce 2023/List of publications in 2023

1. F. Scheiner, M. Havelcová, K. Holcová, N. Doláková, S. Nehyba, L. Ackerman, J. Trubač, Š. Hladilová, J. Rejšek, T. Utescher, 2023. Evolution of palaeoclimate, palaeoenvironment and vegetation in Central Europe during the Miocene Climate Optimum. *Palaeogeography, Palaeoclimatology, Palaeoecology* 611, 111364. <https://doi.org/10.1016/j.palaeo.2022.111364>
2. Klimeš J., Hussain Y., Mreyen A.S., Cauchie L., Schlögel R., Piroton V., Petružálek M., Blahůt J., René M., Meletlidis S., Havenith H.B., 2023. New insights into internal structures and geotechnical rock properties of the giant San Andrés landslide, El Hierro island, Spain. *Remote Sensing* 15, 1627, 1–22. <https://doi.org/10.3390/rs15061627>
3. G. Sádovská, P. Honcová, J. Morávková, I. Jirka, M. Vorokhta, R. Pilař, J. Rathouský, D. Kaucký, E. Mikysková, P. Sazama, 2023. The thermal stability of carbon materials in the air: Quantitative structural investigation of thermal stability of carbon materials in air. *Carbon* 206, 211–225. <https://doi.org/10.1016/j.carbon.2023.02.042>
4. Strunga, V., Sihelská, K., Lorinčík, J., Holá, M., Krausová, I., Goliáš, V., Čurda, M., Mizera, J., 2023. Natural bitumen hosted uranium mineralization: stability of the radiogenic systém. *Journal of Radioanalytical and Nuclear Chemistry* 332, 1597–1606. <https://doi.org/10.1007/s10967-022-08692-5>
5. Švábová M., Bičáková O., Vorokhta M., 2023. Biochar as an effective material for acetone sorption and the effect of surface area on the mechanism of sorption. *Journal of Environmental Management* 348, 119205. <https://doi.org/10.1016/j.jenvman.2023.119205>
6. Vöröš D., Baizán P. D., Slaviček K., Díaz-Somoano M., Geršlová E., 2023. Mercury Occurrence and Speciation in Sediments from Hard Coal Mining in Czechia. *Journal of Hazardous Materials* 459, 132204. <https://doi.org/10.1016/j.jhazmat.2023.132204>
7. M. Vorokhta, M. I. M. Kusdhany, D. Vöröš, M. Nishihara, K. Sasaki, S.M., 2023. Microporous carbon foams: The effect of nitrogen-doping on CO2 capture and separation via pressure swing adsorption. *Chemical Engineering Journal* 471, 144524. <https://doi.org/10.1016/j.cej.2023.144524>
8. Karimi, K., Kletetschka, G., Mizera, J., Meie, V., 2023. Formation of Australasian tektites from gravity and magnetic indicators. *Scientific Reports* 13, 12868. <https://doi.org/10.1007/s10967-022-08692-5>
9. Malhocká, A., Švábová, M., 2023. Diversity of the terpene synthesis in the Thuja species – a comparative chemotaxonomic study. *Biochemical systematics and ecology* 110, 104703. <https://doi.org/10.1016/j.bse.2023.104703>

10. M. Vorokhta, J. Nováková, M. Dopita, I. Khalakhan, V. Kopecký Jr., M. Švábová, 2023. Activated three-dimensionally ordered micromesoporous carbons for CO<sub>2</sub> capture. *Materials Today Sustainability* 24, 100509.  
<https://doi.org/10.1016/j.mtsust.2023.100509>
11. Mizera, J., Krausová, I., Chvátíl, D., Olšanský, V., 2023. Oxygen determination in the Ti certified reference material ERM-EB090b by instrumental photon activation analysis. *Journal of Radioanalytical and Nuclear Chemistry*
12. Malhocká, A., Švábová, M., 2023. A Chemotaxonomic Analysis of Terpenes Variation in *Metasequoia glyptostroboides* and *Sequoiadendron giganteum* resins. *Journal of Essential Oil Bearing Plants* 26.  
<https://doi.org/10.1080/0972060X.2023.2280139>

### **Kapitoly v knize**

13. René M., Dolníček Z.: Granitoids of the Mauthausen type in the Czech part of the Moldanubian Batholith. In: René M. (Ed.) *Granite – Origin, Occurrence, Classification and Metallogeny*. IntechOpen Ltd., London, 1-19.

### **Článek v neimpaktovaném periodiku ČR**

14. René M. (2023): Nb-Ta-Ti oxidy v topazových granitech cíno-wolframového rudní ložiska Ehrenfriedersdorf. – *Zprávy o geologických výzkumech* 56, 1, 21-29.
15. René M. (2023): Petrografie a geochemie amfibolitů strážovského moldanubika. – *Bulletin Mineralogie Petrologie* 31, 1, 35-40.