

Seznam publikací za rok 2025 / List of Publications in 2025

Caleca F, Lombardo L, Steger S, Tanyas H, Raspini F, Dahal A, Nefros C, Mărgărint M, Drouin V, Jemec-Auflič M, Novellino A, Tonini M, **Loche M**, Casagli N, Tofani V (2025) Pan-European landslide risk: from theory to practice. Reviews in Geophysics 63(1): 2023RG000825. <https://doi.org/10.1029/2023RG000825>

Dhakal OP, **Loche M**, Kumar Dahal R, Scaringi G (2025) Influence of temperature on the residual shear strength of landslide soil: role of the clay fraction. Bulletin of Engineering Geology and the Environment 84, 394. <https://doi.org/10.1007/s10064-025-04405-w>

Le TM, **Nguyen XX**, Hu TB, Dong JJ (2025) The Influence of Matedness, Roughness, and Surface Configuration of Smooth to Slightly Rough Joints on Stress-dependent Apertures. International Journal of Rock Mechanics and Mining Sciences, 193, 106159. <https://doi.org/10.1016/j.ijrmms.2025.106159>

Loche M, Scaringi G (2025) Assessing the Influence of Temperature on Slope Stability in a Temperate Climate: A Nationwide Spatial Probability Analysis in Italy. Environmental Modelling and Software 183: 106217. <https://doi.org/10.1016/j.envsoft.2024.106217>

Marmoni GM, **Blahůt J**, Martino S, Bakun-Mazor D (2025) Editorial: Environmental processes driving to slope failures: investigations, monitoring, and modelling through natural field laboratories. Frontiers in Earth Science. <https://doi.org/10.3389/feart.2025.1556839>

Nguyen XX, Truong MH, Nguyen DT, Nguyen TMT, Bui TTL (2025) Collapse Behavior and Geotechnical Properties of Sandy Loess-like Deposit in Southern Vietnam. Geotechnical and Geological Engineering, 43, 326. <https://doi.org/10.1007/s10706-025-03288-8>

Nguyen XX, Yeh CW, Le TM, Dong JJ, Liu CH, Pan CP (2025) Estimating the Permeability–Depth Relation of Slate Formation for Geothermal Project. Rock Mechanics and Rock Engineering, 1-16. <https://doi.org/10.1007/s00603-025-04590-w>

Šilhán K, Balek J, Klimeš J, **Blahůt J**, Hartvich F, Raška P, Riezner P, Šťastný M (2025) Complete historical chronology of complex landslide movements? Improving the tree-ring based results using multidisciplinary approaches. Catena 252: 108877. <https://doi.org/10.1016/j.catena.2025.108877>

Lokajíček T, Přikryl R, Racek M, Řimnáčová D, Natherová V, Petružálek M, ... , Aminzadeh A (2025) Influence of Thermal Loading on Microcrack Evolution and Elastic Anisotropy in Westerly Granite. Rock Mechanics and Rock Engineering, 1-25. <https://doi.org/10.1007/s00603-025-04939-1>

Vavryčuk V, Petružálek M, **Lokajíček T** (2025) Anisotropic properties of fracture zone in sandstone inferred from seismic moment tensors of acoustic emissions. Ultrasonics, 107832. <https://doi.org/10.1016/j.ultras.2025.107832>

Řimnáčová D, Natherová V, **Lokajíček T**, Petružálek M, Aminzadeh A, Racek M, Přikryl R (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>

Loche M, Usmanova D, **Racek O**, Avcioglu A, Görüm T, Adamovič J, **Blahůt J** (accepted) Response of rock material properties of quartzose sandstones to wildfire: a case study from Bohemian Switzerland National Park, Czechia. Bulletin of Engineering Geology and the Environment

Racek O, Morcioni A, **Blahůt J**, Apuani T, Štěpánek P, Scaringi G (accepted) Atmospheric warming drives shallow rock slope instability via irreversible joint opening. Landslides.