

# Zoltán Szalai

## List of Publications by Year in descending order

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Version: 2024-02-01

49  
papers

694  
citations

516710

16  
h-index

610901

24  
g-index

64  
all docs

64  
docs citations

64  
times ranked

800  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Effects of Particle Size on the Attenuated Total Reflection Spectrum of Minerals. Applied Spectroscopy, 2017, 71, 1157-1168.   | 2.2 | 58        |
| 2  | Saharan dust deposition in the Carpathian Basin and its possible effects on interglacial soil formation. Aeolian Research, 2016, 22, 1-12.   | 2.7 | 46        |
| 3  | Occurrence of pharmaceuticals in the Danube and drinking water wells: Efficiency of riverbank filtration. Environmental Pollution, 2020, 265, 114893.  | 7.5 | 46        |
| 4  | Application of attenuated total reflectance Fourier transform infrared spectroscopy in the mineralogical study of a landslide area, Hungary. Sedimentary Geology, 2014, 313, 1-14.                                 | 2.1 | 30        |
| 5  | Infiltration and Soil Loss Changes during the Growing Season under Ploughing and Conservation Tillage. Sustainability, 2017, 9, 1726.  | 3.2 | 30        |
| 6  | Long-term effects of conservation tillage on soil erosion in Central Europe: A random forest-based approach. Soil and Tillage Research, 2021, 209, 104959.   | 5.6 | 29        |
| 7  | Granulometric characterization of paleosols in loess series by automated static image analysis. Sedimentary Geology, 2018, 370, 1-14.  | 2.1 | 26        |
| 8  | The dissolved organic matter as a potential soil quality indicator in arable soils of Hungary. Environmental Monitoring and Assessment, 2015, 187, 479.  | 2.7 | 25        |
| 9  | Relationship between iron and trace metal fractionation in soils. Chemical Speciation and Bioavailability, 2014, 26, 21-30.  | 2.0 | 23        |
| 10 | COMPARISON OF PARTICLE-SIZE ANALYZING LABORATORY METHODS. Environmental Engineering and Management Journal, 2015, 14, 1125-1135.   | 0.6 | 23        |
| 11 | Pharmaceuticals in water and sediment of small streams under the pressure of urbanization: Concentrations, interactions, and risks. Science of the Total Environment, 2022, 808, 152160.                           | 8.0 | 22        |
| 12 | On the reliability and comparability of laser diffraction grain size measurements of paleosols in loess records. Sedimentary Geology, 2019, 389, 42-53.  | 2.1 | 21        |
| 13 | Shallow ground temperature measurements on the highest volcano on Earth, Mt. Ojos del Salado, Arid Andes, Chile. Permafrost and Periglacial Processes, 2019, 30, 3-18.   | 3.4 | 20        |
| 14 | Redistribution of Soil Organic Carbon Triggered by Erosion at Field Scale Under Subhumid Climate, Hungary. Pedosphere, 2016, 26, 652-665.  | 4.0 | 19        |
| 15 | Conservation tillage vs. conventional tillage: long-term effects on yields in continental, sub-humid Central Europe, Hungary. International Journal of Agricultural Sustainability, 2016, 14, 408-427.             | 3.5 | 18        |
| 16 | Kinetic parameters of soil organic matter decomposition in soils under forest in Hungary. Geoderma Regional, 2018, 14, e00187.   | 2.1 | 18        |
| 17 | Changes in organic carbon concentration and organic matter compound of erosion-delivered soil aggregates. Environmental Earth Sciences, 2016, 75, 1.   | 2.7 | 16        |
| 18 | Evaluation of the effect of the intrinsic chemical properties of pharmaceutically active compounds (PhACs) on sorption behaviour in soils and goethite. Ecotoxicology and Environmental Safety, 2021, 215, 112120. | 6.0 | 16        |

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|----|--|-----|-----------|
| 19 | Soil erodibility calculations based on different particle size distribution measurements. Hungarian Geographical Bulletin, 2015, 64, 17-23.  | 0.9 | 16        |
| 20 | Fluvial or aeolian grains? Separation of transport agents on Mars using earth analogue observations. Planetary and Space Science, 2018, 163, 56-76.  | 1.7 | 15        |
| 21 | Chemical composition of labile carbon fractions in Hungarian forest soils: Insight into biogeochemical coupling between DOM and POM. Geoderma, 2022, 419, 115867.  | 5.1 | 15        |
| 22 | Comparison of EUROSEM, WEPP, and MEDRUSH model calculations with measured runoff and soil-loss data from rainfall simulations in Hungary. Journal of Plant Nutrition and Soil Science, 2009, 172, 789-797. | 1.9 | 13        |
| 23 | Thermal baths as sources of pharmaceutical and illicit drug contamination. Environmental Science and Pollution Research, 2020, 27, 399-410.  | 5.3 | 13        |
| 24 | Effect of pedogenic clay minerals on the sorption of copper in a Luvisol B horizon. Geoderma, 2011, 160, 509-516.  | 5.1 | 10        |
| 25 | Differences in Mineral Phase Associated Soil Organic Matter Composition due to Varying Tillage Intensity. Agronomy, 2019, 9, 700.  | 3.0 | 10        |
| 26 | Soil Organic Matter Alteration Velocity due to Land-Use Change: A Case Study under Conservation Agriculture. Sustainability, 2018, 10, 943.  | 3.2 | 9         |
| 27 | Cold, Dry, Windy, and UV Irradiated: Surveying Mars-Relevant Conditions in Ojos del Salado Volcano (Andes Mountains, Chile). Astrobiology, 2020, 20, 677-683.  | 3.0 | 9         |
| 28 | Effects of pharmaceutically active compounds (PhACs) on fish body and scale shape in natural waters. PeerJ, 2021, 9, e10642.   | 2.0 | 8         |
| 29 | Comparison of the Applicability of Different Soil Erosion Models to Predict Soil Erodibility Factor and Event Soil Losses on Loess Slopes in Hungary. Water (Switzerland), 2021, 13, 3517.                 | 2.7 | 8         |
| 30 | Examination of sample preparation methods for the laser grain size analysis of soils with high organic matter content. Agrokedemia Es Talajtan, 2012, 61, 381-398.   | 0.2 | 7         |
| 31 | Spatial and Temporal Changes in Infiltration and Aggregate Stability: A Case Study of a Subhumid Irrigated Cropland. Water (Switzerland), 2019, 11, 876.   | 2.7 | 7         |
| 32 | The Use of Various Rainfall Simulators in the Determination of the Driving Forces of Changes in Sediment Concentration and Clay Enrichment. Water (Switzerland), 2020, 12, 2856.                           | 2.7 | 7         |
| 33 | Accelerated soil development due to seasonal water-saturation under hydric conditions. Geoderma, 2021, 401, 115328.  | 5.1 | 7         |
| 34 | Soil organic matter characterisation by photometric indices or photon correlation spectroscopy: are they comparable?. Hungarian Geographical Bulletin, 2018, 67, 109-120.                                  | 0.9 | 7         |
| 35 | The erubáiz volcanic soil of Hungary: Mineralogy and classification. Catena, 2013, 107, 46-56.   | 5.0 | 6         |
| 36 | Comparison of Soil Bacterial Communities from Juvenile Maize Plants of a Long-Term Monoculture and a Natural Grassland. Agronomy, 2020, 10, 341.   | 3.0 | 6         |

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|----|--|-----|-----------|
| 37 | Investigation of the sorption of $^{17}\beta$ -ethynylestradiol (EE2) on soils formed under aerobic and anaerobic conditions. <i>Chemosphere</i> , 2020, 240, 124817.                                | 8.2 | 5         |
| 38 | Carbon Isotope Measurements to Determine the Turnover of Soil Organic Matter Fractions in a Temperate Forest Soil. <i>Agronomy</i> , 2020, 10, 1944.   | 3.0 | 5         |
| 39 | Granulometric properties of particles in Upper Miocene sandstones from thin sections, Szolnok Formation, Hungary. <i>Hungarian Geographical Bulletin</i> , 2019, 68, 341-353.                        | 0.9 | 5         |
| 40 | A 300-year record of sedimentation in a small tilled catena in Hungary based on $\delta^{13}C$ , $\delta^{15}N$ , and C/N distribution. <i>Journal of Soils and Sediments</i> , 2018, 18, 1767-1779. | 3.0 | 4         |
| 41 | Spatial analysis of changes and anomalies of intense rainfalls in Hungary. <i>Hungarian Geographical Bulletin</i> , 0, , 241-253.  | 0.9 | 4         |
| 42 | Vertical differentiation of pedogenic iron forms – a key of hydromorphic soil profile development. <i>Hungarian Geographical Bulletin</i> , 2021, 70, 369-380.                                       | 0.9 | 3         |
| 43 | Rare earth oxide tracking coupled with 3D soil surface modelling: an opportunity to study small-scale soil redistribution. <i>Journal of Soils and Sediments</i> , 2020, 20, 2405-2417.              | 3.0 | 2         |
| 44 | Analog Site Experiment in the High Andes-Atacama Region: Surface Energy Budget Components on Ojos del Salado from Field Measurements and WRF Simulations. <i>Astrobiology</i> , 2020, 20, 684-700.   | 3.0 | 2         |
| 45 | Different land-use intensities and their susceptibility to soil erosion. <i>Agrokemia Es Talajtan</i> , 2019, 68, 14-23.   | 0.2 | 2         |
| 46 | Fallout isotope chronology of the near-surface sediment record of Lake Balaton. <i>Journal of Environmental Radioactivity</i> , 2018, 181, 32-41.  | 1.7 | 1         |
| 47 | Distribution, geochemical fractionation and sorption of Cu and Pb in soils characteristic of Hungary. <i>Central European Geology</i> , 2014, 57, 265-285.   | 0.4 | 1         |
| 48 | Natural and anthropogenic impacts reflected by paleoclimate proxy parameters in a lake-forest system in Bukovina, Romania. <i>Hungarian Geographical Bulletin</i> , 2021, 70, 339-351.               | 0.9 | 1         |
| 49 | Fractionation of iron in some soil types of Hungary as studied by sequential extraction. <i>Agrokemia Es Talajtan</i> , 2012, 61, 291-305.   | 0.2 | 0         |