

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	Pharmaceuticals in water and sediment of small streams under the pressure of urbanization: Concentrations, interactions, and risks. <i>Science of the Total Environment</i> , 2022, 808, 152160.	8.0	22
2	Chemical composition of labile carbon fractions in Hungarian forest soils: Insight into biogeochemical coupling between DOM and POM. <i>Geoderma</i> , 2022, 419, 115867.	5.1	15
3	Effects of pharmaceutically active compounds (PhACs) on fish body and scale shape in natural waters. <i>PeerJ</i> , 2021, 9, e10642.	2.0	8
4	Long-term effects of conservation tillage on soil erosion in Central Europe: A random forest-based approach. <i>Soil and Tillage Research</i> , 2021, 209, 104959.	5.6	29
5	Evaluation of the effect of the intrinsic chemical properties of pharmaceutically active compounds (PhACs) on sorption behaviour in soils and goethite. <i>Ecotoxicology and Environmental Safety</i> , 2021, 215, 112120.	6.0	16
6	Accelerated soil development due to seasonal water-saturation under hydric conditions. <i>Geoderma</i> , 2021, 401, 115328.	5.1	7
7	Comparison of the Applicability of Different Soil Erosion Models to Predict Soil Erodibility Factor and Event Soil Losses on Loess Slopes in Hungary. <i>Water (Switzerland)</i> , 2021, 13, 3517.	2.7	8
8	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
9	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
10	Investigation of the sorption of 17 β -ethynylestradiol (EE2) on soils formed under aerobic and anaerobic conditions. <i>Chemosphere</i> , 2020, 240, 124817.	8.2	5
11	Thermal baths as sources of pharmaceutical and illicit drug contamination. <i>Environmental Science and Pollution Research</i> , 2020, 27, 399-410.	5.3	13
12	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
13	The Use of Various Rainfall Simulators in the Determination of the Driving Forces of Changes in Sediment Concentration and Clay Enrichment. <i>Water (Switzerland)</i> , 2020, 12, 2856.	2.7	7
14	Cold, Dry, Windy, and UV Irradiated: Surveying Mars-Relevant Conditions in Ojos del Salado Volcano (Andes Mountains, Chile). <i>Astrobiology</i> , 2020, 20, 677-683.	3.0	9
15	Occurrence of pharmaceuticals in the Danube and drinking water wells: Efficiency of riverbank filtration. <i>Environmental Pollution</i> , 2020, 265, 114893.	7.5	46
16	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
17	Comparison of Soil Bacterial Communities from Juvenile Maize Plants of a Long-Term Monoculture and a Natural Grassland. <i>Agronomy</i> , 2020, 10, 341.	3.0	6
18	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

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19	On the reliability and comparability of laser diffraction grain size measurements of paleosols in loess records. <i>Sedimentary Geology</i> , 2019, 389, 42-53.	2.1	21
20	Spatial and Temporal Changes in Infiltration and Aggregate Stability: A Case Study of a Subhumid Irrigated Cropland. <i>Water (Switzerland)</i> , 2019, 11, 876.	2.7	7
21	Differences in Mineral Phase Associated Soil Organic Matter Composition due to Varying Tillage Intensity. <i>Agronomy</i> , 2019, 9, 700.	3.0	10
22	Shallow ground temperature measurements on the highest volcano on Earth, Mt. Ojos del Salado, Arid Andes, Chile. <i>Permafrost and Periglacial Processes</i> , 2019, 30, 3-18.	3.4	20
23	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
24	Different land-use intensities and their susceptibility to soil erosion. <i>Agrokemia Es Talajtan</i> , 2019, 68, 14-23.	0.2	2
25	Granulometric characterization of paleosols in loess series by automated static image analysis. <i>Sedimentary Geology</i> , 2018, 370, 1-14.	2.1	26
26	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
27	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
28	Soil Organic Matter Alteration Velocity due to Land-Use Change: A Case Study under Conservation Agriculture. <i>Sustainability</i> , 2018, 10, 943.	3.2	9
29	Kinetic parameters of soil organic matter decomposition in soils under forest in Hungary. <i>Geoderma Regional</i> , 2018, 14, e00187.	2.1	18
30	Fluvial or aeolian grains? Separation of transport agents on Mars using earth analogue observations. <i>Planetary and Space Science</i> , 2018, 163, 56-76.	1.7	15
31	Soil organic matter characterisation by photometric indices or photon correlation spectroscopy: are they comparable?. <i>Hungarian Geographical Bulletin</i> , 2018, 67, 109-120.	0.9	7
32	Effects of Particle Size on the Attenuated Total Reflection Spectrum of Minerals. <i>Applied Spectroscopy</i> , 2017, 71, 1157-1168.	2.2	58
33	Infiltration and Soil Loss Changes during the Growing Season under Ploughing and Conservation Tillage. <i>Sustainability</i> , 2017, 9, 1726.	3.2	30
34	Redistribution of Soil Organic Carbon Triggered by Erosion at Field Scale Under Subhumid Climate, Hungary. <i>Pedosphere</i> , 2016, 26, 652-665.	4.0	19
35	Saharan dust deposition in the Carpathian Basin and its possible effects on interglacial soil formation. <i>Aeolian Research</i> , 2016, 22, 1-12.	2.7	46
36	Changes in organic carbon concentration and organic matter compound of erosion-delivered soil aggregates. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	2.7	16

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37	Conservation tillage vs. conventional tillage: long-term effects on yields in continental, sub-humid Central Europe, Hungary. <i>International Journal of Agricultural Sustainability</i> , 2016, 14, 408-427.	3.5	18
38	The dissolved organic matter as a potential soil quality indicator in arable soils of Hungary. <i>Environmental Monitoring and Assessment</i> , 2015, 187, 479.	2.7	25
39	Soil erodibility calculations based on different particle size distribution measurements. <i>Hungarian Geographical Bulletin</i> , 2015, 64, 17-23.	0.9	16
40	COMPARISON OF PARTICLE-SIZE ANALYZING LABORATORY METHODS. <i>Environmental Engineering and Management Journal</i> , 2015, 14, 1125-1135.	0.6	23
41	Application of attenuated total reflectance Fourier transform infrared spectroscopy in the mineralogical study of a landslide area, Hungary. <i>Sedimentary Geology</i> , 2014, 313, 1-14.	2.1	30
42	Relationship between iron and trace metal fractionation in soils. <i>Chemical Speciation and Bioavailability</i> , 2014, 26, 21-30.	2.0	23
43	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
44	The erubáz volcanic soil of Hungary: Mineralogy and classification. <i>Catena</i> , 2013, 107, 46-56.	5.0	6
45	Examination of sample preparation methods for the laser grain size analysis of soils with high organic matter content. <i>Agrokemia Es Talajtan</i> , 2012, 61, 381-398.	0.2	7
46	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
47	Effect of pedogenic clay minerals on the sorption of copper in a Luvisol B horizon. <i>Geoderma</i> , 2011, 160, 509-516.	5.1	10
48	Comparison of EUROSEM, WEPP, and MEDRUSH model calculations with measured runoff and soil-loss data from rainfall simulations in Hungary. <i>Journal of Plant Nutrition and Soil Science</i> , 2009, 172, 789-797.	1.9	13
49	Spatial analysis of changes and anomalies of intense rainfalls in Hungary. <i>Hungarian Geographical Bulletin</i> , 0, , 241-253.	0.9	4