Karel Nemecek

List of Publications by Citations

31 papers	**411** citations
11 h-index	**20** g-index
32 ext. papers	**553** ext. citations
4 avg, IF	**3.47** L-index

#	Paper	IF	Citations
31	Comparing different data preprocessing methods for monitoring soil heavy metals based on soil spectral features. *Soil and Water Research*, **2016**, 10, 218-227	2.5	81
30	Comparison of water-soluble and exchangeable forms of Al in acid forest soils. *Journal of Inorganic Biochemistry*, **2005**, 99, 1788-95	4.2	65
29	Isotopic Tracing of Thallium Contamination in Soils Affected by Emissions from Coal-Fired Power Plants. *Environmental Science & Technology*, **2016**, 50, 9864-71	10.3	42
28	Using Dye Tracer for Visualization of Preferential Flow at Macro- and Microscales. *Vadose Zone Journal*, **2012**, 11,	2.7	38
27	Effect of covering with natural topsoil as a reclamation measure on brown-coal mining dumpsites. *Journal of Geochemical Exploration*, **2012**, 113, 118-123	3.8	29
26	Lead isotope composition and risk elements distribution in urban soils of historically different cities Ostrava and Prague, the Czech Republic. *Journal of Geochemical Exploration*, **2014**, 147, 215-221	3.8	24
25	Profile distribution and temporal changes of sulphate and nitrate contents and related soil properties under beech and spruce forests. *Science of the Total Environment*, **2013**, 442, 165-71	10.2	18
24	Using dye tracer for visualizing roots impact on soil structure and soil porous system. *Biologia (Poland)*, **2015**, 70, 1439-1443	1.5	13
23	Comparison of multivariate methods for arsenic estimation and mapping in floodplain soil via portable X-ray fluorescence spectroscopy. *Geoderma*, **2021**, 384, 114792	6.7	13
22	Comparison of Field and Laboratory Wet Soil Spectra in the Vis-NIR Range for Soil Organic Carbon Prediction in the Absence of Laboratory Dry Measurements. *Remote Sensing*, **2020**, 12, 3082	5	12
21	Transformation of iron forms during pedogenesis after tree uprooting in a natural beech-dominated forest. *Catena*, **2015**, 132, 12-20	5.8	11
20	Self-organizing map artificial neural networks and sequential Gaussian simulation technique for mapping potentially toxic element hotspots in polluted mining soils. *Journal of Geochemical Exploration*, **2021**, 222, 106680	3.8	10
19	Fractionation and distribution of risk elements in soil profiles at a Czech shooting range . *Plant, Soil and Environment*, **2013**, 59, 121-129	2.2	8
18	The variations of aluminium species in mountainous forest soils and its implications to soil acidification. *Environmental Science and Pollution Research*, **2015**, 22, 16676-87	5.1	6
17	Contents of Potentially Toxic Elements in Forest Soils of the Jizera Mountains Region. *Environmental Modeling and Assessment*, **2015**, 20, 183-195	2	5
16	Health risk assessment and the application of CF-PMF: a pollution assessment based receptor model in an urban soil. *Journal of Soils and Sediments*, **2021**, 21, 3117-3136	3.4	5
15	The impact of the permanent grass cover or conventional tillage on hydraulic properties of Haplic Cambisol developed on paragneiss substrate. *Biologia (Poland)*, **2016**, 71, 1144-1150	1.5	5

List of Publications

#	Publication	IF	Citations
14	Degradation of forest soils in the vicinity of an industrial zone. *Soil and Water Research*, **2016**, 10, 65-73	2.5	4
13	An in-depth human health risk assessment of potentially toxic elements in highly polluted riverine soils, Příbram (Czech Republic). *Environmental Geochemistry and Health*, **2021**, 1	4.7	4
12	Behaviour of aluminium in forest soils with different lithology and herb vegetation cover. *Journal of Inorganic Biochemistry*, **2018**, 181, 139-144	4.2	3
11	Litter Decomposition as a Source of Active Phosphates in Spruce and Beech Mountainous Forests Affected by Acidification. *Procedia Earth and Planetary Science*, **2014**, 10, 130-132		3
10	Litter chemical quality and bacterial community structure influenced decomposition in acidic forest soil. *European Journal of Soil Biology*, **2021**, 103, 103271	2.9	3
9	vis-NIR and XRF Data Fusion and Feature Selection to Estimate Potentially Toxic Elements in Soil. *Sensors*, **2021**, 21,	3.8	3
8	Application of regression-kriging and sequential Gaussian simulation for the delineation of forest areas potentially suitable for liming in the Jizera Mountains region, Czech Republic. *Geoderma Regional*, **2020**, 21, e00286	2.7	2
7	Using an ensemble model coupled with portable X-ray fluorescence and visible near-infrared spectroscopy to explore the viability of mapping and estimating arsenic in an agricultural soil. *Science of the Total Environment*, **2021**, 151805	10.2	1
6	Multi-geochemical background comparison and the identification of the best normalizer for the estimation of PTE contamination in agricultural soil. *Environmental Geochemistry and Health*, **2021**, 1	4.7	1
5	The influence of land-use on tropical soil chemical characteristics with emphasis on aluminium. *Journal of Inorganic Biochemistry*, **2020**, 204, 110962	4.2	1
4	Profile distribution and soil health implication of some oxides in agrarian soils overlying geologic formations in Southeast Nigeria. *Modeling Earth Systems and Environment*, 1	3.2	1
3	Effect of clay on the fractions of potentially toxic elements in contaminated soil. *Soil and Water Research*, **2020**, 16, 1-10	2.5	0
2	Shallow depositional basins as potential archives of palaeoenvironmental changes in southwestern Greenland over the last 800 years. *Boreas*, **2021**, 50, 262-278	2.4	0
1	Industrial zones and their benefits for society. *Soil and Water Research*, **2020**, 15, 258-272	2.5	