

Radim Vařit

List of Publications by Year in descending order

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37
papers

1,064
citations

471509

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docs citations

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times ranked

955
citing authors

#	ARTICLE	IF	CITATIONS
1	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. <i>Science of the Total Environment</i> , 2022, 818, 151805.	8.0	8
2	Prediction of nickel concentration in peri-urban and urban soils using hybridized empirical bayesian kriging and support vector machine regression. <i>Scientific Reports</i> , 2022, 12, 3004.	3.3	11
3	Estimation of the stability of topsoil aggregates in areas affected by water erosion using selected soil and terrain properties. <i>Soil and Tillage Research</i> , 2022, 219, 105348.	5.6	12
4	Prediction of topsoil organic carbon content with Sentinel-2 imagery and spectroscopic measurements under different conditions using an ensemble model approach with multiple pre-treatment combinations. <i>Soil and Tillage Research</i> , 2022, 220, 105379.	5.6	11
5	Using spectral indices and terrain attribute datasets and their combination in the prediction of cadmium content in agricultural soil. <i>Computers and Electronics in Agriculture</i> , 2022, 198, 107077.	7.7	10
6	Can in situ spectral measurements under disturbance-reduced environmental conditions help improve soil organic carbon estimation?. <i>Science of the Total Environment</i> , 2022, 838, 156304.	8.0	7
7	Ecological risk source distribution, uncertainty analysis, and application of geographically weighted regression cokriging for prediction of potentially toxic elements in agricultural soils. <i>Chemical Engineering Research and Design</i> , 2022, 164, 729-746.	5.6	13
8	Source apportionment, contamination levels, and spatial prediction of potentially toxic elements in selected soils of the Czech Republic. <i>Environmental Geochemistry and Health</i> , 2021, 43, 601-620.	3.4	24
9	Does the limited use of orthogonal signal correction pre-treatment approach to improve the prediction accuracy of soil organic carbon need attention?. <i>Geoderma</i> , 2021, 388, 114945.	5.1	17
10	Health risk assessment and the application of CF-PMF: a pollution assessment-based receptor model in an urban soil. <i>Journal of Soils and Sediments</i> , 2021, 21, 3117-3136.	3.0	19
11	Exploring the Suitability of UAS-Based Multispectral Images for Estimating Soil Organic Carbon: Comparison with Proximal Soil Sensing and Spaceborne Imagery. <i>Remote Sensing</i> , 2021, 13, 308.	4.0	21
12	Multi-geochemical background comparison and the identification of the best normalizer for the estimation of PTE contamination in agricultural soil. <i>Environmental Geochemistry and Health</i> , 2021, , 1.	3.4	5
13	A geostatistical approach to estimating source apportionment in urban and peri-urban soils using the Czech Republic as an example. <i>Scientific Reports</i> , 2021, 11, 23615.	3.3	9
14	Human health risk exposure and ecological risk assessment of potentially toxic element pollution in agricultural soils in the district of Frydek Mistek, Czech Republic: a sample location approach. <i>Environmental Sciences Europe</i> , 2021, 33, .	5.5	19
15	Quantifying the pedodiversity-elevation relations. <i>Geoderma</i> , 2020, 373, 114441.	5.1	19
16	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. <i>Geoderma Regional</i> , 2020, 21, e00286.	2.1	6
17	Prediction of soil texture classes through different wavelength regions of reflectance spectroscopy at various soil depths. <i>Catena</i> , 2020, 189, 104485.	5.0	49
18	Ensemble predictive model for more accurate soil organic carbon spectroscopic estimation. <i>Computers and Geosciences</i> , 2017, 104, 75-83.	4.2	24

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19	Combining reflectance spectroscopy and the digital elevation model for soil oxidizable carbon estimation. <i>Geoderma</i> , 2017, 303, 133-142.	5.1	18
20	Simple but efficient signal pre-processing in soil organic carbon spectroscopic estimation. <i>Geoderma</i> , 2017, 298, 46-53.	5.1	66
21	A Memory-Based Learning Approach as Compared to Other Data Mining Algorithms for the Prediction of Soil Texture Using Diffuse Reflectance Spectra. <i>Remote Sensing</i> , 2016, 8, 341.	4.0	44
22	Absorption Features in Soil Spectra Assessment. <i>Applied Spectroscopy</i> , 2015, 69, 1425-1431.	2.2	8
23	Estimation of Potentially Toxic Elements Contamination in Anthropogenic Soils on a Brown Coal Mining Dumpsite by Reflectance Spectroscopy: A Case Study. <i>PLoS ONE</i> , 2015, 10, e0117457.	2.5	65
24	Colluvial soils as a soil organic carbon pool in different soil regions. <i>Geoderma</i> , 2015, 253-254, 122-134.	5.1	35
25	Transformation of iron forms during pedogenesis after tree uprooting in a natural beech-dominated forest. <i>Catena</i> , 2015, 132, 12-20.	5.0	22
26	Predicting oxidizable carbon content via visible- and near-infrared diffuse reflectance spectroscopy in soils heavily affected by water erosion. <i>Soil and Water Research</i> , 2015, 10, 74-77.	1.7	8
27	Modelling the impact of acid deposition on forest soils in North Bohemian Mountains with two dynamic models: the Very Simple Dynamic Model (VSD) and the Model of Acidification of Groundwater in Catchments (MAGIC). <i>Soil and Water Research</i> , 2015, 10, 10-18.	1.7	5
28	Comparing different data preprocessing methods for monitoring soil heavy metals based on soil spectral features. <i>Soil and Water Research</i> , 2015, 10, 218-227.	1.7	125
29	Consideration of peak parameters derived from continuum-removed spectra to predict extractable nutrients in soils with visible and near-infrared diffuse reflectance spectroscopy (VNIR-DRS). <i>Geoderma</i> , 2014, 232-234, 208-218.	5.1	37
30	Uncertainty propagation in VNIR reflectance spectroscopy soil organic carbon mapping. <i>Geoderma</i> , 2013, 199, 54-63.	5.1	49
31	Visible, Near-Infrared, and Mid-Infrared Spectroscopy Applications for Soil Assessment with Emphasis on Soil Organic Matter Content and Quality: State-of-the-Art and Key Issues. <i>Applied Spectroscopy</i> , 2013, 67, 1349-1362.	2.2	139
32	Mapping the topsoil pH and humus quality of forest soils in the North Bohemian JizerskĀ© hory Mts. region with ordinary, universal, and regression kriging: cross-validation comparison. <i>Soil and Water Research</i> , 2013, 8, 97-104.	1.7	11
33	Sampling design optimization for multivariate soil mapping. <i>Geoderma</i> , 2010, 155, 147-153.	5.1	68
34	Delineating Acidified Soils in the Jizera Mountains Region Using Fuzzy Classification. , 2008, , 303-309.		1
35	Forest soil acidification assessment using principal component analysis and geostatistics. <i>Geoderma</i> , 2007, 140, 374-382.	5.1	52
36	Factors influencing distribution of different Al forms in forest soils of the JizerskĀ© hory Mts.. <i>Journal of Forest Science</i> , 2006, 52, S87-S92.	1.1	14

#	ARTICLE	IF	CITATIONS
37	Factors of spatial distribution of forest floor properties in the Jizerské Mountains. Plant, Soil and Environment, 2005, 51, 447-455.	2.2	13