

Radim Vařit

List of Publications by Year in descending order

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Version: 2024-02-01

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 | 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 |
| 2 | 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 |
| 3 | Sampling design optimization for multivariate soil mapping. <i>Geoderma</i> , 2010, 155, 147-153. | 5.1 | 68 |
| 4 | Simple but efficient signal pre-processing in soil organic carbon spectroscopic estimation. <i>Geoderma</i> , 2017, 298, 46-53. | 5.1 | 66 |
| 5 | 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 |
| 6 | Forest soil acidification assessment using principal component analysis and geostatistics. <i>Geoderma</i> , 2007, 140, 374-382. | 5.1 | 52 |
| 7 | Uncertainty propagation in VNIR reflectance spectroscopy soil organic carbon mapping. <i>Geoderma</i> , 2013, 199, 54-63. | 5.1 | 49 |
| 8 | 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 |
| 9 | 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 |
| 10 | 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 |
| 11 | Colluvial soils as a soil organic carbon pool in different soil regions. <i>Geoderma</i> , 2015, 253-254, 122-134. | 5.1 | 35 |
| 12 | Ensemble predictive model for more accurate soil organic carbon spectroscopic estimation. <i>Computers and Geosciences</i> , 2017, 104, 75-83. | 4.2 | 24 |
| 13 | 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 |
| 14 | 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 |
| 15 | 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 |
| 16 | Quantifying the pedodiversity-elevation relations. <i>Geoderma</i> , 2020, 373, 114441. | 5.1 | 19 |
| 17 | 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 |
| 18 | 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 |

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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 | 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 |
| 21 | Factors influencing distribution of different Al forms in forest soils of the Jizerská hory Mts.. <i>Journal of Forest Science</i> , 2006, 52, S87-S92. | 1.1 | 14 |
| 22 | Factors of spatial distribution of forest floor properties in the Jizerská Mountains. <i>Plant, Soil and Environment</i> , 2005, 51, 447-455. | 2.2 | 13 |
| 23 | 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 |
| 24 | 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 |
| 25 | Mapping the topsoil pH and humus quality of forest soils in the North Bohemian Jizerská 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 |
| 26 | 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 |
| 27 | 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 |
| 28 | 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 |
| 29 | 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 |
| 30 | Absorption Features in Soil Spectra Assessment. <i>Applied Spectroscopy</i> , 2015, 69, 1425-1431. | 2.2 | 8 |
| 31 | 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 |
| 32 | 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 |
| 33 | 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 |
| 34 | 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 |
| 35 | 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 |
| 36 | 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 |

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|----|---|----|-----------|
| 37 | Delineating Acidified Soils in the Jizera Mountains Region Using Fuzzy Classification. , 2008, , 303-309. | | 1 |