Maria Knadel

List of Publications by Year
in descending order

42 papers	1,791 citations	361296 20 h-index	289141 40 g-index
42 all docs	42 docs citations	42 times ranked	1819 citing authors

#	Article	IF	Citations
1	A global spectral library to characterize the world's soil. Earth-Science Reviews, 2016, 155, 198-230.	4.0	546
2	Soil Spectroscopy: An Alternative to Wet Chemistry for Soil Monitoring. Advances in Agronomy, 2015, , 139-159.	2.4	288
3	Modeling Soil Organic Carbon at Regional Scale by Combining Multi-Spectral Images with Laboratory Spectra. PLoS ONE, 2015, 10, e0142295.	1.1	69
4	Environment versus dispersal in the assembly of western Amazonian palm communities. Journal of Biogeography, 2012, 39, 1318-1332.	1.4	61
5	Visible-Near Infrared Spectra as a Proxy for Topsoil Texture and Glacial Boundaries. Soil Science Society of America Journal, 2013, 77, 568-579.	1.2	55
6	Digital Mapping of Toxic Metals in Qatari Soils Using Remote Sensing and Ancillary Data. Remote Sensing, 2016, 8, 1003.	1.8	51
7	Comparing Predictive Abilities of Three Visible-Near Infrared Spectrophotometers for Soil Organic Carbon and Clay Determination. Journal of Near Infrared Spectroscopy, 2013, 21, 67-80.	0.8	44
8	Comparing predictive ability of laser-induced breakdown spectroscopy to visible near-infrared spectroscopy for soil property determination. Biosystems Engineering, 2017, 156, 157-172.	1.9	43
9	Applicability of the Guggenheimâ€"Andersonâ€"Boer water vapour sorption model for estimation of soil specific surface area. European Journal of Soil Science, 2018, 69, 245-255.	1.8	43
10	The Effects of Moisture Conditions-From Wet to Hyper dry-On Visible Near-Infrared Spectra of Danish Reference Soils. Soil Science Society of America Journal, 2014, 78, 422-433.	1.2	39
11	Multisensor On-The-Go Mapping of Soil Organic Carbon Content. Soil Science Society of America Journal, 2011, 75, 1799-1806.	1.2	37
12	Soil organic carbon and particle sizes mapping using visâ€"NIR, EC and temperature mobile sensor platform. Computers and Electronics in Agriculture, 2015, 114, 134-144.	3.7	37
13	Predicting Soil Organic Carbon at Field Scale Using a National Soil Spectral Library. Journal of Near Infrared Spectroscopy, 2013, 21, 213-222.	0.8	32
14	Quantification of SOC and Clay Content Using Visible Near-Infrared Reflectanceâ€"Mid-Infrared Reflectance Spectroscopy With Jack-Knifing Partial Least Squares Regression. Soil Science, 2014, 179, 325-332.	0.9	32
15	Complete Soil Texture is Accurately Predicted by Visible Near-Infrared Spectroscopy. Soil Science Society of America Journal, 2017, 81, 758-769.	1.2	31
16	Predicting the dry bulk density of soils across Denmark: Comparison of single-parameter, multi-parameter, and visâ€"NIR based models. Geoderma, 2020, 361, 114080.	2.3	31
17	Visibleâ€"Nearâ€Infrared Spectroscopy Can Predict the Clay/Organic Carbon and Mineral Fines/Organic Carbon Ratios. Soil Science Society of America Journal, 2016, 80, 1486-1495.	1.2	29
18	Visibleâ€Nearâ€Infrared Spectroscopy Prediction of Soil Characteristics as Affected by Soilâ€Water Content. Soil Science Society of America Journal, 2018, 82, 1333-1346.	1.2	29

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19	Combining Xâ€ray Computed Tomography and Visible Nearâ€Infrared Spectroscopy for Prediction of Soil Structural Properties. Vadose Zone Journal, 2018, 17, 1-13.	1.3	23
20	Visibleâ€"Near-Infrared Spectroscopy can predict Mass Transport of Dissolved Chemicals through Intact Soil. Scientific Reports, 2018, 8, 11188.	1.6	21
21	Predicting glyphosate sorption across New Zealand pastoral soils using basic soil properties or Visâ€"NIR spectroscopy. Geoderma, 2020, 360, 114009.	2.3	21
22	Field-Scale Predictions of Soil Contaminant Sorption Using Visibleâ€"Near Infrared Spectroscopy. Journal of Near Infrared Spectroscopy, 2016, 24, 281-291.	0.8	20
23	Assessing Soil Water Repellency of a Sandy Field with Visible near Infrared Spectroscopy. Journal of Near Infrared Spectroscopy, 2016, 24, 215-224.	0.8	19
24	Predicting the Campbell Soil Water Retention Function: Comparing Visibleâ€"Nearâ€Infrared Spectroscopy with Classical Pedotransfer Function. Vadose Zone Journal, 2018, 17, 1-12.	1.3	19
25	Comparison of Cation Exchange Capacity Estimated from Visâ€"NIR Spectral Reflectance Data and a Pedotransfer Function. Vadose Zone Journal, 2019, 18, 1-8.	1.3	18
26	Combining Laser-Induced Breakdown Spectroscopy (LIBS) and Visible Near-Infrared Spectroscopy (Vis-NIRS) for Soil Phosphorus Determination. Sensors, 2020, 20, 5419.	2.1	18
27	Soil Specific Surface Area Determination by Visible Nearâ€Infrared Spectroscopy. Soil Science Society of America Journal, 2018, 82, 1046-1056.	1.2	17
28	Using Vis-NIR Spectroscopy for Monitoring Temporal Changes in Soil Organic Carbon. Soil Science, 2013, 178, 389-399.	0.9	15
29	Development of a Danish national Vis-NIR soil spectral library for soil organic carbon determination. , 2012, , 403-408.		14
30	Total Phosphorus Determination in Soils Using Laser-Induced Breakdown Spectroscopy: Evaluating Different Sources of Matrix Effects. Applied Spectroscopy, 2021, 75, 22-33.	1.2	12
31	Estimating Soil Particle Density using Visible Nearâ€Infrared Spectroscopy and a Simple, Twoâ€compartment Pedotransfer Function. Soil Science Society of America Journal, 2019, 83, 37-47.	1.2	10
32	The Relation between Soil Water Repellency and Water Content Can Be Predicted by Visâ€NIR Spectroscopy. Soil Science Society of America Journal, 2019, 83, 1616-1627.	1.2	9
33	Onâ€theâ€Go Sensor Fusion for Prediction of Clay and Organic Carbon Using Preâ€processing Survey, Different Validation Methods, and Variable Selection. Soil Science Society of America Journal, 2019, 83, 300-310.	1.2	9
34	Comparing Visibleâ€"Nearâ€Infrared Spectroscopy and a Pedotransfer Function for Predicting the Dry Region of the Soilâ€Water Retention Curve. Vadose Zone Journal, 2019, 18, 1-13.	1.3	8
35	Soil organic carbon predictions in Subarctic Greenland by visibleâ€"near infrared spectroscopy. Arctic, Antarctic, and Alpine Research, 2019, 51, 490-505.	0.4	8
36	Estimating Atterberg Limits of Fineâ€Grained Soils by Visibleâ€"Nearâ€Infrared Spectroscopy. Vadose Zone Journal, 2019, 18, 190039.	1.3	7

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37	Combining visible nearâ€infrared spectroscopy and water vapor sorption for soil specific surface area estimation. Vadose Zone Journal, 2020, 19, e20007.	1.3	7
38	Combining Visâ€"NIR spectroscopy and advanced statistical analysis for estimation of soil chemical properties relevant for forest road construction. Soil Science Society of America Journal, 2021, 85, 1073-1090.	1.2	6
39	Water repellency prediction in highâ€organic Greenlandic soils: Comparing visâ€"NIRS to pedotransfer functions. Soil Science Society of America Journal, 2022, 86, 643-657.	1.2	6
40	Soil profile organic carbon prediction with visible-near infrared reflectance spectroscopy based on a national database. , 2012, , 409-413.		3
41	Estimating coefficient of linear extensibility using Visâ€"NIR reflectance spectral data: Comparison of model validation approaches. Vadose Zone Journal, 2020, 19, e20057.	1.3	2
42	Estimating Atterberg limits of soils from reflectance spectroscopy and pedotransfer functions. Geoderma, 2021, 402, 115300.	2.3	2