Budiman B Minasny

List of Publications by Year
in descending order

367 papers	24,312 citations	9775 73 h-index	9334 143 g-index
389 all docs	389 docs citations	389 times ranked	15124 citing authors

#	Article	IF	Citations
1	On digital soil mapping. Geoderma, 2003, 117, 3-52.	2.3	2,543
2	Soil carbon 4 per mille. Geoderma, 2017, 292, 59-86.	2.3	1,279
3	The knowns, known unknowns and unknowns of sequestration of soil organic carbon. Agriculture, Ecosystems and Environment, 2013, 164, 80-99.	2.5	1,143
4	A conditioned Latin hypercube method for sampling in the presence of ancillary information. Computers and Geosciences, 2006, 32, 1378-1388.	2.0	719
5	Digital Soil Map of the World. Science, 2009, 325, 680-681.	6.0	469
6	Modeling Soil Processes: Review, Key Challenges, and New Perspectives. Vadose Zone Journal, 2016, 15, 1-57.	1.3	445
7	Digital soil mapping: A brief history and some lessons. Geoderma, 2016, 264, 301-311.	2.3	403
8	Mapping continuous depth functions of soil carbon storage and available water capacity. Geoderma, 2009, 154, 138-152.	2.3	365
9	Pedotransfer Functions in Earth System Science: Challenges and Perspectives. Reviews of Geophysics, 2017, 55, 1199-1256.	9.0	316
10	Limited effect of organic matter on soil available water capacity. European Journal of Soil Science, 2018, 69, 39-47.	1.8	315
11	Comparison of different approaches to the development of pedotransfer functions for water-retention curves. Geoderma, 1999, 93, 225-253.	2.3	313
12	From pedotransfer functions to soil inference systems. Geoderma, 2002, 109, 41-73.	2.3	310
13	Colour space models for soil science. Geoderma, 2006, 133, 320-337.	2.3	309
14	Towards a global-scale soil climate mitigation strategy. Nature Communications, 2020, 11, 5427.	5.8	302
15	Digital Mapping of Soil Carbon. Advances in Agronomy, 2013, , 1-47.	2.4	296
16	Convolutional neural network for simultaneous prediction of several soil properties using visible/near-infrared, mid-infrared, and their combined spectra. Geoderma, 2019, 352, 251-267.	2.3	262
17	GlobalSoilMap. Advances in Agronomy, 2014, , 93-134.	2.4	246
18	Digital Mapping of Soil Organic Carbon Contents and Stocks in Denmark. PLoS ONE, 2014, 9, e105519.	1.1	245

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19	Potential of integrated field spectroscopy and spatial analysis for enhanced assessment of soil contamination: A prospective review. Geoderma, 2015, 241-242, 180-209.	2.3	237
20	The MatÃ©rn function as a general model for soil variograms. Geoderma, 2005, 128, 192-207.	2.3	236
21	Removing the effect of soil moisture from NIR diffuse reflectance spectra for the prediction of soil organic carbon. Geoderma, 2011, 167-168, 118-124.	2.3	229
22	Soil Security: Solving the Global Soil Crisis. Global Policy, 2013, 4, 434-441.	1.0	219
23	Machine learning for digital soil mapping: Applications, challenges and suggested solutions. Earth-Science Reviews, 2020, 210, 103359.	4.0	215
24	Digital mapping of soil salinity in Ardakan region, central Iran. Geoderma, 2014, 213, 15-28.	2.3	208
25	Predicting soil properties in the tropics. Earth-Science Reviews, 2011, 106, 52-62.	4.0	198
26	Machine learning and soil sciences: a review aided by machine learning tools. Soil, 2020, 6, 35-52.	2.2	195
27	Spatial prediction of soil properties using EBLUP with the MatÃ©rn covariance function. Geoderma, 2007, 140, 324-336.	2.3	182
28	Highâ€Resolution 3â€D Mapping of Soil Texture in Denmark. Soil Science Society of America Journal, 2013, 77, 860-876.	1.2	180
29	The carbon sequestration potential of terrestrial ecosystems. Journal of Soils and Water Conservation, 2018, 73, 145A-152A.	0.8	180
30	Regression rules as a tool for predicting soil properties from infrared reflectance spectroscopy. Chemometrics and Intelligent Laboratory Systems, 2008, 94, 72-79.	1.8	177
31	Global soil organic carbon assessment. Global Food Security, 2015, 6, 9-16.	4.0	176
32	Using deep learning to predict soil properties from regional spectral data. Geoderma Regional, 2019, 16, e00198.	0.9	176
33	Quantitative models for pedogenesis â€" A review. Geoderma, 2008, 144, 140-157.	2.3	171
34	Prediction and digital mapping of soil carbon storage in the Lower Namoi Valley. Soil Research, 2006, 44, 233.	0.6	169
35	Digital mapping of GlobalSoilMap soil properties at a broad scale: A review. Geoderma, 2022, 409, 115567.	2.3	167
36	Spectral soil analysis and inference systems: A powerful combination for solving the soil data crisis. Geoderma, 2006, 136, 272-278.	2.3	164

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37	Soil Properties Drive Microbial Community Structure in a Large Scale Transect in South Eastern Australia. Scientific Reports, 2018, 8, 11725.	1.6	155
38	Kriging Method Evaluation for Assessing the Spatial Distribution of Urban Soil Lead Contamination. Journal of Environmental Quality, 2002, 31, 1576-1588.	1.0	146
39	Using deep learning for digital soil mapping. Soil, 2019, 5, 79-89.	2.2	144
40	High resolution 3D mapping of soil organic carbon in a heterogeneous agricultural landscape. Geoderma, 2014, 213, 296-311.	2.3	139
41	Utilizing portable X-ray fluorescence spectrometry for in-field investigation of pedogenesis. Catena, 2016, 139, 220-231.	2.2	138
42	Building and testing conceptual and empirical models for predicting soil bulk density. Soil Use and Management, 2007, 23, 437-443.	2.6	136
43	Pedology and digital soil mapping (DSM). European Journal of Soil Science, 2019, 70, 216-235.	1.8	136
44	Towards digital soil morphometrics. Geoderma, 2014, 230-231, 305-317.	2.3	134
45	Empirical estimates of uncertainty for mapping continuous depth functions of soil attributes. Geoderma, 2011, 160, 614-626.	2.3	132
46	An assessment of model averaging to improve predictive power of portable vis-NIR and XRF for the determination of agronomic soil properties. Geoderma, 2016, 279, 31-44.	2.3	124
47	A rudimentary mechanistic model for soil production and landscape development. Geoderma, 1999, 90, 3-21.	2.3	122
48	Disaggregating and harmonising soil map units through resampled classification trees. Geoderma, 2014, 214-215, 91-100.	2.3	122
49	Using model averaging to combine soil property rasters from legacy soil maps and from point data. Geoderma, 2014, 232-234, 34-44.	2.3	113
50	The Method for Fitting Neural Network Parametric Pedotransfer Functions. Soil Science Society of America Journal, 2002, 66, 352.	1.2	104
51	Global pedodiversity, taxonomic distance, and the World Reference Base. Geoderma, 2010, 155, 132-139.	2.3	103
52	Soil legacy data rescue via GlobalSoilMap and other international and national initiatives. GeoResJ, 2017, 14, 1-19.	1.4	102
53	Digital mapping of peatlands â€" A critical review. Earth-Science Reviews, 2019, 196, 102870.	4.0	102
54	Constructing a soil class map of Denmark based on the FAO legend using digital techniques. Geoderma, 2014, 214-215, 101-113.	2.3	101

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55	A quantitative model for integrating landscape evolution and soil formation. Journal of Geophysical Research F: Earth Surface, 2013, 118, 331-347.	1.0	99
56	Regional transferability of mid-infrared diffuse reflectance spectroscopic prediction for soil chemical properties. Geoderma, 2009, 153, 155-162.	2.3	97
57	Open digital mapping as a cost-effective method for mapping peat thickness and assessing the carbon stock of tropical peatlands. Geoderma, 2018, 313, 25-40.	2.3	96
58	Neural Networks Prediction of Soil Hydraulic Functions for Alluvial Soils Using Multistep Outflow Data. Soil Science Society of America Journal, 2004, 68, 417-429.	1.2	94
59	A rudimentary mechanistic model for soil formation and landscape development. Geoderma, 2001, 103, 161-179.	2.3	93
60	Comparing temperature correction models for soil electrical conductivity measurement. Precision Agriculture, 2011, 12, 55-66.	3.1	93
61	How fast does soil grow?. Geoderma, 2014, 216, 48-61.	2.3	91
62	Comparing data mining classifiers to predict spatial distribution of USDA-family soil groups in Baneh region, Iran. Geoderma, 2015, 253-254, 67-77.	2.3	90
63	Transfer learning to localise a continental soil vis-NIR calibration model. Geoderma, 2019, 340, 279-288.	2.3	86
64	Digital soil mapping of soil carbon at the farm scale: A spatial downscaling approach in consideration of measured and uncertain data. Geoderma, 2017, 290, 91-99.	2.3	84
65	The influence of training sample size on the accuracy of deep learning models for the prediction of soil properties with near-infrared spectroscopy data. Soil, 2020, 6, 565-578.	2.2	84
66	Incorporating taxonomic distance into spatial prediction and digital mapping of soil classes. Geoderma, 2007, 142, 285-293.	2.3	82
67	Mapping and identifying basal stem rot disease in oil palms in North Sumatra with QuickBird imagery. Precision Agriculture, 2011, 12, 233-248.	3.1	82
68	Chile and the Chilean soil grid: A contribution to GlobalSoilMap. Geoderma Regional, 2017, 9, 17-28.	0.9	80
69	Soil pH increase under paddy in South Korea between 2000 and 2012. Agriculture, Ecosystems and Environment, 2016, 221, 205-213.	2.5	77
70	POLARIS Soil Properties: 30â€m Probabilistic Maps of Soil Properties Over the Contiguous United States. Water Resources Research, 2019, 55, 2916-2938.	1.7	77
71	Spatial prediction of topsoil salinity in the Chelif Valley, Algeria, using local ordinary kriging with local variograms versus whole-area variogram. Soil Research, 2001, 39, 259.	0.6	76
72	Resolving the integral connection between pedogenesis and landscape evolution. Earth-Science Reviews, 2015, 150, 102-120.	4.0	76

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73	The Australian soil texture boomerang: a comparison of the Australian and USDA/FAO soil particle-size classification systems. Soil Research, 2001, 39, 1443.	0.6	74
74	Mid-infrared spectroscopy and partial least-squares regression to estimate soil arsenic at a highly variable arsenic-contaminated site. International Journal of Environmental Science and Technology, 2015, 12, 1965-1974.	1.8	74
75	Estimation and potential improvement of the quality of legacy soil samples for digital soil mapping. Geoderma, 2007, 141, 1-14.	2.3	73
76	Analysis and prediction of soil properties using local regression-kriging. Geoderma, 2012, 171-172, 16-23.	2.3	73
77	Models relating soil pH measurements in water and calcium chloride that incorporate electrolyte concentration. European Journal of Soil Science, 2011, 62, 728-732.	1.8	72
78	Synergistic Use of Visâ€NIR, MIR, and XRF Spectroscopy for the Determination of Soil Geochemistry. Soil Science Society of America Journal, 2016, 80, 888-899.	1.2	72
79	Mechanistic soilâ€“landscape modelling as an approach to developing pedogenetic classifications. Geoderma, 2006, 133, 138-149.	2.3	71
80	Using Google's cloud-based platform for digital soil mapping. Computers and Geosciences, 2015, 83, 80-88.	2.0	71
81	Convolutional neural network for soil microplastic contamination screening using infrared spectroscopy. Science of the Total Environment, 2020, 702, 134723.	3.9	71
82	Using soil knowledge for the evaluation of midâ€infrared diffuse reflectance spectroscopy for predicting soil physical and mechanical properties. European Journal of Soil Science, 2008, 59, 960-971.	1.8	70
83	Uncertainty analysis for pedotransfer functions. European Journal of Soil Science, 2002, 53, 417-429.	1.8	69
84	Farm-scale soil carbon auditing. Geoderma, 2016, 265, 120-130.	2.3	68
85	More Data or a Better Model? Figuring Out What Matters Most for the Spatial Prediction of Soil Carbon. Soil Science Society of America Journal, 2017, 81, 1413-1426.	1.2	67
86	Mapping key soil properties to support agricultural production in Eastern China. Geoderma Regional, 2017, 10, 144-153.	0.9	66
87	Multi-source data integration for soil mapping using deep learning. Soil, 2019, 5, 107-119.	2.2	66
88	Comparing regression-based digital soil mapping and multiple-point geostatistics for the spatial extrapolation of soil data. Geoderma, 2016, 262, 243-253.	2.3	64
89	Game theory interpretation of digital soil mapping convolutional neural networks. Soil, 2020, 6, 389-397.	2.2	64
90	On measuring pedodiversity. Geoderma, 2007, 141, 149-154.	2.3	63

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91	The variance quadtree algorithm: Use for spatial sampling design. Computers and Geosciences, 2007, 33, 383-392.	2.0	62
92	Mapping soil organic carbon content over New South Wales, Australia using local regression kriging. Geoderma Regional, 2016, 7, 38-48.	0.9	62
93	Evaluation and development of hydraulic conductivity pedotransfer functions for Australian soil. Soil Research, 2000, 38, 905.	0.6	59
94	Digital mapping for cost-effective and accurate prediction of the depth and carbon stocks in Indonesian peatlands. Geoderma, 2016, 272, 20-31.	2.3	59
95	Simulation of soil thickness evolution in a complex agricultural landscape at fine spatial and temporal scales. Geoderma, 2006, 133, 71-86.	2.3	58
96	A complete soil hydraulic model accounting for capillary and adsorptive water retention, capillary and film conductivity, and hysteresis. Water Resources Research, 2015, 51, 8757-8772.	1.7	58
97	Using R for Digital Soil Mapping. Progress in Soil Science, 2017, , .	0.4	58
98	Automated Near-Real-Time Mapping and Monitoring of Rice Extent, Cropping Patterns, and Growth Stages in Southeast Asia Using Sentinel-1 Time Series on a Google Earth Engine Platform. Remote Sensing, 2019, 11, 1666.	1.8	58
99	Confronting uncertainty in model-based geostatistics using Markov Chain Monte Carlo simulation. Geoderma, 2011, 163, 150-162.	2.3	57
100	Integral energy as a measure of soil-water availability. Plant and Soil, 2003, 249, 253-262.	1.8	55
101	Drainage increases CO₂ and N₂O emissions from tropical peat soils. Global Change Biology, 2020, 26, 4583-4600.	4.2	55
102	Predicting and mapping soil available water capacity in Korea. PeerJ, 2013, 1, e71.	0.9	54
103	Estimating the Water Retention Shape Parameter from Sand and Clay Content. Soil Science Society of America Journal, 2007, 71, 1105-1110.	1.2	53
104	Modelling longâ€term <i>in situ </i>soil profile evolution: application to the genesis of soil profiles containing stone layers. European Journal of Soil Science, 2007, 58, 1535-1548.	1.8	53
105	Soil slaking assessment using image recognition. Soil and Tillage Research, 2016, 163, 119-129.	2.6	53
106	Global soil science research collaboration in the 21st century: Time to end helicopter research. Geoderma, 2020, 373, 114299.	2.3	53
107	Citations and the<i>h</i>index of soil researchers and journals in the Web of Science, Scopus, and Google Scholar. PeerJ, 2013, 1, e183.	0.9	53
108	Modelling how carbon affects soil structure. Geoderma, 2009, 149, 19-26.	2.3	52

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109	Digital soil assessment of agricultural suitability, versatility and capital in Tasmania, Australia. Geoderma Regional, 2015, 6, 7-21.	0.9	52
110	Ensuring planetary survival: the centrality of organic carbon in balancing the multifunctional nature of soils. Critical Reviews in Environmental Science and Technology, 2022, 52, 4308-4324.	6.6	52
111	The efficiency of various approaches to obtaining estimates of soil hydraulic properties. Geoderma, 2002, 107, 55-70.	2.3	48
112	Estimating soil hydraulic properties and their uncertainty: the use of stochastic simulation in the inverse modelling of the evaporation method. Geoderma, 2005, 126, 277-290.	2.3	48
113	Is soil carbon disappearing? The dynamics of soil organic carbon in Java. Global Change Biology, 2011, 17, 1917-1924.	4.2	48
114	Some practical aspects of predicting texture data in digital soil mapping. Soil and Tillage Research, 2019, 194, 104289.	2.6	48
115	The <i>Neuroâ€m</i> Method for Fitting Neural Network Parametric Pedotransfer Functions. Soil Science Society of America Journal, 2002, 66, 352-361.	1.2	47
116	Monitoring and modelling soil water dynamics using electromagnetic conductivity imaging and the ensemble Kalman filter. Geoderma, 2017, 285, 76-93.	2.3	47
117	Evaluating a Bayesian modelling approach (INLA-SPDE) for environmental mapping. Science of the Total Environment, 2017, 609, 621-632.	3.9	46
118	Crops for increasing soil organic carbon stocks â€" A global meta analysis. Geoderma, 2020, 367, 114230.	2.3	45
119	Digital soil property mapping and uncertainty estimation using soil class probability rasters. Geoderma, 2015, 237-238, 190-198.	2.3	44
120	Continuous rice cropping has been sequestering carbon in soils in Java and South Korea for the past 30Âyears. Global Biogeochemical Cycles, 2012, 26, .	1.9	43
121	Rapid assessment of petroleum-contaminated soils with infrared spectroscopy. Geoderma, 2017, 289, 150-160.	2.3	43
122	Addressing the issue of digital mapping of soil classes with imbalanced class observations. Geoderma, 2019, 350, 84-92.	2.3	43
123	Merging country, continental and global predictions of soil texture: Lessons from ensemble modelling in France. Geoderma, 2019, 337, 99-110.	2.3	43
124	Digital Mapping of Soil Classes Using Decision Tree and Auxiliary Data in the Ardakan Region, Iran. Arid Land Research and Management, 2014, 28, 147-168.	0.6	42
125	Harmonizing legacy soil data for digital soil mapping in Indonesia. Geoderma, 2013, 192, 77-85.	2.3	41
126	Microbial processing of organic matter drives stability and pore geometry of soil aggregates. Geoderma, 2020, 360, 114033.	2.3	41

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127	Legacy data-based national-scale digital mapping of key soil properties in India. Geoderma, 2021, 381, 114684.	2.3	41
128	Uncertainty analysis for soilâ€terrain models. International Journal of Geographical Information Science, 2006, 20, 117-134.	2.2	40
129	A general method for downscaling earth resource information. Computers and Geosciences, 2012, 41, 119-125.	2.0	40
130	Estimation of sorptivity from disc-permeameter measurements. Geoderma, 2000, 95, 305-324.	2.3	39
131	Evaluating near infrared spectroscopy for field prediction of soil properties. Soil Research, 2009, 47, 664.	0.6	39
132	Bottom-up digital soil mapping. I. Soil layer classes. Geoderma, 2011, 163, 38-44.	2.3	39
133	Spatial Scaling for Digital Soil Mapping. Soil Science Society of America Journal, 2013, 77, 890-902.	1.2	39
134	Volcanic Ash, Insecurity for the People but Securing Fertile Soil for the Future. Sustainability, 2019, 11, 3072.	1.6	39
135	Evaluating low-cost portable near infrared sensors for rapid analysis of soils from South Eastern Australia. Geoderma Regional, 2020, 20, e00240.	0.9	39
136	Necessary meta-data for pedotransfer functions. Geoderma, 2011, 160, 627-629.	2.3	38
137	Operational sampling challenges to digital soil mapping in Tasmania, Australia. Geoderma Regional, 2015, 4, 1-10.	0.9	38
138	Quantifying and predicting spatio-temporal variability of soil CH 4 and N 2 O fluxes from a seemingly homogeneous Australian agricultural field. Agriculture, Ecosystems and Environment, 2017, 240, 182-193.	2.5	38
139	Elucidation of physiographic and hydrogeological features of the lower Namoi valley using fuzzy k-means classification of EM34 data. Environmental Modelling and Software, 2003, 18, 667-680.	1.9	37
140	Evaluating a lowâ€cost portable <scp>NIR</scp> spectrometer for the prediction of soil organic and total carbon using different calibration models. Soil Use and Management, 2019, 35, 607-616.	2.6	37
141	Soil carbon determination by thermogravimetrics. PeerJ, 2013, 1, e6.	0.9	37
142	Predicting soil properties in 3D: Should depth be a covariate?. Geoderma, 2021, 383, 114794.	2.3	36
143	A description of aggregate liberation and dispersion in A horizons of Australian Vertisols by ultrasonic agitation. Geoderma, 1999, 91, 11-26.	2.3	35
144	Spatial evaluation of pedotransfer functions using wavelet analysis. Journal of Hydrology, 2007, 333, 182-198.	2.3	35

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145	Evaluating the spatial and vertical distribution of agriculturally important nutrients â€” nitrogen, phosphorous and boron â€” in North West Iran. Catena, 2019, 173, 71-82.	2.2	35
146	Mid-infrared spectroscopy for accurate measurement of an extensive set of soil properties for assessing soil functions. Soil Security, 2022, 6, 100043.	1.2	35
147	Understanding the process of fascial unwinding. International Journal of Therapeutic Massage & Bodywork, 2009, 2, 10-7.	0.1	34
148	Long-term variability of the leading seasonal modes of rainfall in south-eastern Australia. Weather and Climate Extremes, 2016, 13, 1-14.	1.6	34
149	Rejoinder to Comments on Minasny et al., 2017 Soil carbon 4 per mille Geoderma 292, 59â€“86. Geoderma, 2018, 309, 124-129.	2.3	34
150	In search of an optimum sampling algorithm for prediction of soil properties from infrared spectra. PeerJ, 2018, 6, e5722.	0.9	34
151	Eighty-metre resolution 3D soil-attribute maps for Tasmania, Australia. Soil Research, 2015, 53, 932.	0.6	33
152	Improved disaggregation of conventional soil maps. Geoderma, 2019, 341, 148-160.	2.3	33
153	A Framework for the Development of Wetland for Agricultural Use in Indonesia. Resources, 2019, 8, 34.	1.6	33
154	Optimizing wavelength selection by using informative vectors for parsimonious infrared spectra modelling. Computers and Electronics in Agriculture, 2019, 158, 201-210.	3.7	33
155	Digital Mapping of Soil Classes Using Ensemble of Models in Isfahan Region, Iran. Soil Systems, 2019, 3, 37.	1.0	32
156	Near infrared (NIR) spectroscopy as a rapid and cost-effective method for nutrient analysis of plant leaf tissues. Advances in Agronomy, 2020, , 1-49.	2.4	32
157	Land-use affects soil microbial co-occurrence networks and their putative functions. Applied Soil Ecology, 2022, 169, 104184.	2.1	32
158	Bottom-up digital soil mapping. II. Soil series classes. Geoderma, 2011, 163, 30-37.	2.3	31
159	An integrated framework for software to provide yield data cleaning and estimation of an opportunity index for site-specific crop management. Precision Agriculture, 2013, 14, 376-391.	3.1	31
160	Predicting and mapping the soil available water capacity of Australian wheatbelt. Geoderma Regional, 2014, 2-3, 110-118.	0.9	31
161	The location- and scale- specific correlation between temperature and soil carbon sequestration across the globe. Science of the Total Environment, 2018, 615, 540-548.	3.9	31
162	Neural Networks Prediction of Soil Hydraulic Functions for Alluvial Soils Using Multistep Outflow Data. Soil Science Society of America Journal, 2004, 68, 417.	1.2	31

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163	Homosoil, a Methodology for Quantitative Extrapolation of Soil Information Across the Globe. , 2010, , 137-150.		30
164	Digital soil property mapping and uncertainty estimation using soil class probability rasters. , 2014, , 341-346.		30
165	Modelling aggregate liberation and dispersion of three soil types exposed to ultrasonic agitation. Soil Research, 2006, 44, 497.	0.6	29
166	Estimating Pedotransfer Function Prediction Limits Using Fuzzy <i>k</i>â€Means with Extragrades. Soil Science Society of America Journal, 2010, 74, 1967-1975.	1.2	29
167	Applicability of Richards' equation models to predict deep percolation under surface irrigation. Geoderma, 2011, 160, 569-578.	2.3	29
168	Digital soil mapping and assessment for Australia and beyond: A propitious future. Geoderma Regional, 2021, 24, e00359.	0.9	29
169	The GlobalSoilMap project specifications. , 2014, , 9-12.		29
170	Measurement of aggregate bond energy using ultrasonic dispersion. European Journal of Soil Science, 2009, 60, 695-705.	1.8	28
171	Methodologies for Global Soil Mapping. , 2010, , 429-436.		28
172	A model for the identification of terrons in the Lower Hunter Valley, Australia. Geoderma Regional, 2014, 1, 31-47.	0.9	28
173	Challenges for Soil Organic Carbon Research. , 2014, , 3-16.		28
174	Using distance metrics to determine the appropriate domain of pedotransfer function predictions. Geoderma, 2009, 149, 421-425.	2.3	27
175	Mapping and comparing the distribution of soil carbon under cropping and grazing management practices in Narrabri, north-west New South Wales. Soil Research, 2010, 48, 248.	0.6	27
176	Digital mapping of a soil drainage index for irrigated enterprise suitability in Tasmania, Australia. Soil Research, 2014, 52, 107.	0.6	27
177	Trends in soil science education: Looking beyond the number of students. Journal of Soils and Water Conservation, 2008, 63, 76A-83A.	0.8	26
178	Comparisons between USDA Soil Taxonomy and the Australian Soil Classification System I: Data harmonization, calculation of taxonomic distance and inter-taxa variation. Geoderma, 2017, 307, 198-209.	2.3	26
179	Developing a soil spectral library using a low-cost NIR spectrometer for precision fertilization in Indonesia. Geoderma Regional, 2020, 22, e00319.	0.9	26
180	Soil science and the h index. Scientometrics, 2007, 73, 257-264.	1.6	25

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181	A geostatistical analysis of geostatistics. Scientometrics, 2009, 80, 491-514.	1.6	25
182	Pedometrics Research in the Vadose Zoneâ€"Review and Perspectives. Vadose Zone Journal, 2013, 12, 1-20.	1.3	25
183	Quantifying processes of pedogenesis using optically stimulated luminescence. European Journal of Soil Science, 2013, 64, 145-160.	1.8	25
184	Mapping imbalanced soil classes using Markov chain random fields models treated with data resampling technique. Computers and Electronics in Agriculture, 2019, 159, 110-118.	3.7	25
185	To spike or to localize? Strategies to improve the prediction of local soil properties using regional spectral library. Geoderma, 2022, 406, 115501.	2.3	25
186	Comparing Spectral Soil Inference Systems and Midâ€Infrared Spectroscopic Predictions of Soil Moisture Retention. Soil Science Society of America Journal, 2008, 72, 1394-1400.	1.2	24
187	Advances in Agronomy Quantifying Processes of Pedogenesis. Advances in Agronomy, 2011, 113, 1-74.	2.4	24
188	The feasibility of predicting the spatial pattern of soil particle-size distribution using a pedogenesis model. Geoderma, 2019, 341, 195-205.	2.3	24
189	Simple functions for describing soil water retention and the unsaturated hydraulic conductivity from saturation to complete dryness. Journal of Hydrology, 2020, 588, 125041.	2.3	24
190	Regenerative Agriculture and Its Potential to Improve Farmscape Function. Sustainability, 2022, 14, 5815.	1.6	24
191	Using Additional Criteria for Measuring the Quality of Predictions and Their Uncertainties in a Digital Soil Mapping Framework. Soil Science Society of America Journal, 2011, 75, 1032-1043.	1.2	23
192	Unravelling scale- and location-specific variations in soil properties using the 2-dimensional empirical mode decomposition. Geoderma, 2017, 307, 139-149.	2.3	23
193	Spatial changes in soil chemical properties in an agricultural zone in southeastern China due to land consolidation. Soil and Tillage Research, 2019, 187, 152-160.	2.6	23
194	Human-induced changes in Indonesian peatlands increase drought severity. Environmental Research Letters, 2020, 15, 084013.	2.2	23
195	Precocious 19th century soil carbon science. Geoderma Regional, 2020, 22, e00306.	0.9	23
196	Individual, country, and journal self-citation in soil science. Geoderma, 2010, 155, 434-438.	2.3	22
197	Spatial variability of Australian soil texture: A multiscale analysis. Geoderma, 2018, 309, 60-74.	2.3	22
198	Modeling Soil Salinity along a Hillslope in Iran by Inversion of EM38 Data. Soil Science Society of America Journal, 2015, 79, 1142-1153.	1.2	21

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199	Two-dimensional empirical mode decomposition of heavy metal spatial variation in agricultural soils, Southeast China. Environmental Science and Pollution Research, 2017, 24, 8302-8314.	2.7	21
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