Yakov A Pachepsky

List of Publications by Year
in descending order

272	13,673	28190 55	28224 105
papers	citations	h-index	g-index

297	297	297	11629
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The significance of soils and soil science towards realization of the United Nations Sustainable Development Goals. Soil, 2016, 2, 111-128.	2.2	1,077
2	Pedotransfer functions: bridging the gap between available basic soil data and missing soil hydraulic characteristics. Journal of Hydrology, 2001, 251, 123-150.	2.3	778
3	Effect of soil organic carbon on soil water retention. Geoderma, 2003, 116, 61-76.	2.3	758
4	Modeling Soil Processes: Review, Key Challenges, and New Perspectives. Vadose Zone Journal, 2016, 15, 1-57.	1.3	445
5	On the spatio-temporal dynamics of soil moisture at the field scale. Journal of Hydrology, 2014, 516, 76-96.	2.3	369
6	Using Pedotransfer Functions to Estimate the van Genuchtenâ€“Mualem Soil Hydraulic Properties: A Review. Vadose Zone Journal, 2010, 9, 795-820.	1.3	344
7	Pedotransfer Functions in Earth System Science: Challenges and Perspectives. Reviews of Geophysics, 2017, 55, 1199-1256.	9.0	316
8	Artificial Neural Networks to Estimate Soil Water Retention from Easily Measurable Data. Soil Science Society of America Journal, 1996, 60, 727-733.	1.2	285
9	Escherichia Coliand Fecal Coliforms in Freshwater and Estuarine Sediments. Critical Reviews in Environmental Science and Technology, 2011, 41, 1067-1110.	6.6	230
10	Fractal models for predicting soil hydraulic properties: a review. Engineering Geology, 1997, 48, 161-183.	2.9	206
11	Transport and fate of manure-borne pathogens: Modeling perspective. Agricultural Water Management, 2006, 86, 81-92.	2.4	206
12	Soil Water Retention as Related to Topographic Variables. Soil Science Society of America Journal, 2001, 65, 1787-1795.	1.2	179
13	Temporal Stability of Soil Water Contents: A Review of Data and Analyses. Vadose Zone Journal, 2012, 11, vzj2011.0178.	1.3	159
14	MODELING BACTERIA FATE AND TRANSPORT IN WATERSHEDS TO SUPPORT TMDLS. Transactions of the ASABE, 2006, 49, 987-1002.	1.1	156
15	Hydropedology: Synergistic integration of pedology and hydrology. Water Resources Research, 2006, 42, .	1.7	153
16	Accuracy and Reliability of Pedotransfer Functions as Affected by Grouping Soils. Soil Science Society of America Journal, 1999, 63, 1748-1757.	1.2	150
17	Escherichia coli survival in waters: Temperature dependence. Water Research, 2013, 47, 569-578.	5.3	150
18	Hydropedology and pedotransfer functions. Geoderma, 2006, 131, 308-316.	2.3	140

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19	Survival of manure-borne E. coli in streambed sediment: Effects of temperature and sediment properties. Water Research, 2010, 44, 2753-2762.	5.3	136
20	Multifractal analysis of discretized X-ray CT images for the characterization of soil macropore structures. Geoderma, 2010, 156, 32-42.	2.3	135
21	Comparison of Two Techniques to Develop Pedotransfer Functions for Water Retention. Soil Science Society of America Journal, 2003, 67, 1085-1092.	1.2	132
22	Generalized Richards' equation to simulate water transport in unsaturated soils. Journal of Hydrology, 2003, 272, 3-13.	2.3	131
23	Spatial and Temporal Variability of Corn Grain Yield on a Hillslope. Soil Science Society of America Journal, 1998, 62, 764-773.	1.2	130
24	Temporal stability in soil water content patterns across agricultural fields. Catena, 2008, 73, 125-133.	2.2	125
25	Influence of Organic Matter on the Estimation of Saturated Hydraulic Conductivity. Soil Science Society of America Journal, 2005, 69, 1330-1337.	1.2	119
26	Prediction of contamination potential of groundwater arsenic in Cambodia, Laos, and Thailand using artificial neural network. Water Research, 2011, 45, 5535-5544.	5.3	115
27	Modeling fate and transport of fecally-derived microorganisms at the watershed scale: State of the science and future opportunities. Water Research, 2016, 100, 38-56.	5.3	114
28	Simulating Scaleâ€Dependent Solute Transport in Soils with the Fractional Advectiveâ€“Dispersive Equation. Soil Science Society of America Journal, 2000, 64, 1234-1243.	1.2	111
29	Use of the Nonparametric Nearest Neighbor Approach to Estimate Soil Hydraulic Properties. Soil Science Society of America Journal, 2006, 70, 327-336.	1.2	109
30	Effect of streambed bacteria release on E. coli concentrations: Monitoring and modeling with the modified SWAT. Ecological Modelling, 2010, 221, 1592-1604.	1.2	106
31	Soil structure and pedotransfer functions. European Journal of Soil Science, 2003, 54, 443-452.	1.8	105
32	Using Support Vector Machines to Develop Pedotransfer Functions for Water Retention of Soils in Poland. Soil Science Society of America Journal, 2008, 72, 1243-1247.	1.2	104
33	TEMPORAL PERSISTENCE IN VERTICAL DISTRIBUTIONS OF SOIL MOISTURE CONTENTS. Soil Science Society of America Journal, 2005, 69, 347-352.	1.2	99
34	Release of Escherichia coli from the bottom sediment in a first-order creek: Experiment and reach-specific modeling. Journal of Hydrology, 2010, 391, 322-332.	2.3	99
35	Reconstructing missing daily precipitation data using regression trees and artificial neural networks for SWAT streamflow simulation. Journal of Hydrology, 2010, 394, 305-314.	2.3	96
36	A comparative modeling study of soil water dynamics in a desert ecosystem. Water Resources Research, 1997, 33, 73-90.	1.7	91

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37	Development and analysis of the Soil Water Infiltration Global database. Earth System Science Data, 2018, 10, 1237-1263.	3.7	85
38	Fractal parameters of pore surfaces as derived from micromorphological data: effect of long-term management practices. Geoderma, 1996, 74, 305-319.	2.3	84
39	Irrigation Waters as a Source of Pathogenic Microorganisms in Produce: A Review. Advances in Agronomy, 2011, 113, 75-141.	2.4	84
40	Performance of TDR calibration models as affected by soil texture. Journal of Hydrology, 1999, 218, 35-43.	2.3	78
41	Fractal Parameters of Pore Surface Area as Influenced by Simulated Soil Degradation. Soil Science Society of America Journal, 1995, 59, 68-75.	1.2	77
42	The modified SWAT model for predicting fecal coliforms in the Wachusett Reservoir Watershed, USA. Water Research, 2012, 46, 4750-4760.	5.3	76
43	Effect of Bovine Manure on Fecal Coliform Attachment to Soil and Soil Particles of Different Sizes. Applied and Environmental Microbiology, 2007, 73, 3363-3370.	1.4	74
44	USING FIELD TOPOGRAPHIC DESCRIPTORS TO ESTIMATE SOIL WATER RETENTION. Soil Science, 2002, 167, 423-435.	0.9	71
45	Fieldâ€Scale Water Flow Simulations Using Ensembles of Pedotransfer Functions for Soil Water Retention. Vadose Zone Journal, 2006, 5, 234-247.	1.3	71
46	Biofilm morphology as related to the porous media clogging. Water Research, 2010, 44, 1193-1201.	5.3	67
47	Scale and scaling in soils. Geoderma, 2017, 287, 4-30.	2.3	67
48	Rainfall-Induced Release of Fecal Coliforms and Other Manure Constituents: Comparison and Modeling. Applied and Environmental Microbiology, 2006, 72, 7531-7539.	1.4	66
49	A Modified Number-based Method for Estimating Fragmentation Fractal Dimensions of Soils. Soil Science Society of America Journal, 1996, 60, 1291-1297.	1.2	62
50	Effect of Manure on Escherichia coli Attachment to Soil. Journal of Environmental Quality, 2005, 34, 2086-2090.	1.0	61
51	A novel water quality module of the SWMM model for assessing low impact development (LID) in urban watersheds. Journal of Hydrology, 2020, 586, 124886.	2.3	61
52	Maximum compactibility of Argentine soils from the Proctor test;. Soil and Tillage Research, 2000, 56, 197-204.	2.6	60
53	CanE. colior thermotolerant coliform concentrations predict pathogen presence or prevalence in irrigation waters?. Critical Reviews in Microbiology, 2016, 42, 1-10.	2.7	60
54	Using convolutional neural network for predicting cyanobacteria concentrations in river water. Water Research, 2020, 186, 116349.	5.3	57

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55	Use of Brooksâ€Corey Parameters to Improve Estimates of Saturated Conductivity from Effective Porosity. Soil Science Society of America Journal, 1999, 63, 1086-1092.	1.2	56
56	Comparison of soil water retention at field and laboratory scales. Soil Science Society of America Journal, 2001, 65, 460-462.	1.2	56
57	Modeling local control effects on the temporal stability of soil water content. Journal of Hydrology, 2013, 481, 106-118.	2.3	54
58	Predicting microbial water quality with models: Over-arching questions for managing risk in agricultural catchments. Science of the Total Environment, 2016, 544, 39-47.	3.9	54
59	Sample dimensions effect on prediction of soil water retention curve and saturated hydraulic conductivity. Journal of Hydrology, 2015, 528, 127-137.	2.3	51
60	Effect of climate and atmospheric change on soybean water stress: a study of Iowa. Ecological Modelling, 2000, 135, 265-277.	1.2	50
61	Soil Consistence and Structure as Predictors of Water Retention. Soil Science Society of America Journal, 2002, 66, 1115-1126.	1.2	50
62	Information content and complexity of simulated soil water fluxes. Geoderma, 2006, 134, 253-266.	2.3	49
63	Survival ofEscherichia coliin cowpats in pasture and in laboratory conditions. Journal of Applied Microbiology, 2007, 103, 1122-1127.	1.4	48
64	Saturated Hydraulic Conductivity of US Soils Grouped According to Textural Class and Bulk Density. Soil Science Society of America Journal, 2015, 79, 1094-1100.	1.2	48
65	Modeling seasonal variability of fecal coliform in natural surface waters using the modified SWAT. Journal of Hydrology, 2016, 535, 377-385.	2.3	48
66	Predicting crop yields under climate change conditions from monthly GCM weather projections. Environmental Modelling and Software, 2000, 15, 79-86.	1.9	46
67	Transport ofGiardiaand Manure Suspensions in Saturated Porous Media. Journal of Environmental Quality, 2006, 35, 749-757.	1.0	46
68	Stochastic imaging of soil parameters to assess variability and uncertainty of crop yield estimates. Geoderma, 1998, 85, 213-229.	2.3	44
69	Comparison of release and transport of manure-borne Escherichia coli and enterococci under grass buffer conditions. Letters in Applied Microbiology, 2007, 44, 161-167.	1.0	44
70	Effect of soil hydraulic properties on the relationship between the spatial mean and variability of soil moisture. Journal of Hydrology, 2014, 516, 154-160.	2.3	44
71	Statistical properties of soil moisture images revisited. Journal of Hydrology, 2002, 255, 12-24.	2.3	43
72	Modeling transport of Escherichia coli in a creek during and after artificial high-flow events: Three-year study and analysis. Water Research, 2013, 47, 2676-2688.	5.3	43

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73	Hydrological modeling of Fecal Indicator Bacteria in a tropical mountain catchment. Water Research, 2017, 119, 102-113.	5.3	43
74	A Design for a Modular, Generic Soil Simulator to Interface with Plant Models. Agronomy Journal, 1996, 88, 162-169.	0.9	42
75	The Current status of pedotransfer functions: Their accuracy, reliability, and utility in field- and regional-scale modeling. Geophysical Monograph Series, 1999, , 223-234.	0.1	42
76	Toward Improving Global Estimates of Field Soil Water Capacity. Soil Science Society of America Journal, 2011, 75, 807-812.	1.2	41
77	Comparing temperature effects on Escherichia coli ,Salmonella , and Enterococcus survival in surface waters. Letters in Applied Microbiology, 2014, 59, 278-283.	1.0	41
78	Sensitivity analysis of unsaturated flow and contaminant transport with correlated parameters. Journal of Hydrology, 2011, 397, 238-249.	2.3	40
79	Kirkham's Legacy and Contemporary Challenges in Soil Physics Research. Soil Science Society of America Journal, 2011, 75, 1589-1601.	1.2	40
80	Depth-Dependent Survival of Escherichia coli and Enterococci in Soil after Manure Application and Simulated Rainfall. Applied and Environmental Microbiology, 2015, 81, 4801-4808.	1.4	40
81	On the role of patterns in understanding the functioning of soil-vegetation-atmosphere systems. Journal of Hydrology, 2016, 542, 63-86.	2.3	39
82	Evaluating the influence of climate change on the fate and transport of fecal coliform bacteria using the modified SWAT model. Science of the Total Environment, 2019, 658, 753-762.	3.9	39
83	Evaluation of Global Ozone Monitoring Experiment (GOME) ozone profiles from nine different algorithms. Journal of Geophysical Research, 2006, 111, .	3.3	38
84	Water transport in soils as in fractal media. Journal of Hydrology, 1998, 204, 98-107.	2.3	37
85	Software to estimate â˜33 and â˜1500kPa soil water retention using the non-parametric k-Nearest Neighbor technique. Environmental Modelling and Software, 2008, 23, 254-255.	1.9	37
86	Modeling manure-borne bromide and fecal coliform transport with runoff and infiltration at a hillslope. Journal of Environmental Management, 2007, 84, 336-346.	3.8	36
87	Assessment of a green roof practice using the coupled SWMM and HYDRUS models. Journal of Environmental Management, 2020, 261, 109920.	3.8	36
88	The use of a water budget model and yield maps to characterize water availability in a landscape. Soil and Tillage Research, 2001, 58, 219-231.	2.6	35
89	Using GIS in passive microwave soil moisture mapping and geostatistical analysis. International Journal of Geographical Information Science, 2002, 16, 681-698.	2.2	35
90	Uncertainty Evaluation of Coliform Bacteria Removal from Vegetated Filter Strip under Overland Flow Condition. Journal of Environmental Quality, 2009, 38, 1636-1644.	1.0	35

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91	Response of coliform populations in streambed sediment and water column to changes in nutrient concentrations in water. Water Research, 2014, 59, 316-324.	5.3	35
92	Projected irrigation requirements for upland crops using soil moisture model under climate change in South Korea. Agricultural Water Management, 2016, 165, 163-180.	2.4	34
93	Scale effects on runoff and soil erosion in rangelands: Observations and estimations with predictors of different availability. Catena, 2017, 151, 161-173.	2.2	34
94	Technical note: Saturated hydraulic conductivity and textural heterogeneity of soils. Hydrology and Earth System Sciences, 2018, 22, 3923-3932.	1.9	34
95	Effects of Soil Hydraulic Properties on the Spatial Variability of Soil Water Content: Evidence from Sensor Network Data and Inverse Modeling. Vadose Zone Journal, 2014, 13, vzj2014.07.0099.	1.3	33
96	Survival of Manure-borne Escherichia coli and Fecal Coliforms in Soil: Temperature Dependence as Affected by Site-Specific Factors. Journal of Environmental Quality, 2016, 45, 949-957.	1.0	33
97	Rainfall intensity effects on removal of fecal indicator bacteria from solid dairy manure applied over grass-covered soil. Science of the Total Environment, 2016, 539, 583-591.	3.9	33
98	Data assimilation in surface water quality modeling: A review. Water Research, 2020, 186, 116307.	5.3	33
99	Influence of root density on the critical soil water potential. Plant and Soil, 1995, 171, 351-357.	1.8	32
100	FECAL COLIFORM TRANSPORT AS AFFECTED BY SURFACE CONDITION. Transactions of the American Society of Agricultural Engineers, 2005, 48, 1055-1061.	0.9	32
101	Sensitivity Analysis of the Nonparametric Nearest Neighbor Technique to Estimate Soil Water Retention. Vadose Zone Journal, 2006, 5, 1222-1235.	1.3	32
102	Uncertainty in modelling of faecal coliform overland transport associated with manure application in Maryland. Hydrological Processes, 2011, 25, 2393-2404.	1.1	32
103	Temporal stability of soil water content as affected by climate and soil hydraulic properties: a simulation study. Hydrological Processes, 2014, 28, 1899-1915.	1.1	32
104	Temporal Stability of Escherichia coli Concentrations in Waters of Two Irrigation Ponds in Maryland. Applied and Environmental Microbiology, 2018, 84, .	1.4	32
105	Development of a Nowcasting System Using Machine Learning Approaches to Predict Fecal Contamination Levels at Recreational Beaches in Korea. Journal of Environmental Quality, 2018, 47, 1094-1102.	1.0	32
106	Indirect estimation of soil hydraulic properties to predict soybean yield using GLYCIM. Agricultural Systems, 1996, 52, 331-353.	3.2	31
107	Testing soil water retention estimation with the MUUF pedotransfer model using data from the southern United States. Journal of Hydrology, 2001, 251, 177-185.	2.3	31
108	Effect of biofilm in irrigation pipes on microbial quality of irrigation water. Letters in Applied Microbiology, 2012, 54, 217-224.	1.0	31

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109	Accuracy of sample dimension-dependent pedotransfer functions in estimation of soil saturated hydraulic conductivity. Catena, 2017, 149, 374-380.	2.2	31
110	Soil water dynamics in row and interrow positions in soybean (Glycine max L.). Plant and Soil, 2001, 237, 25-35.	1.8	30
111	Error analysis of soil temperature simulations using measured and estimated hourly weather data with 2DSOIL. Agricultural Systems, 2002, 72, 215-239.	3.2	30
112	Release and Removal of Microorganisms from Land-Deposited Animal Waste and Animal Manures: A Review of Data and Models. Journal of Environmental Quality, 2015, 44, 1338-1354.	1.0	30
113	Estimation of viable Escherichia coli O157 in surface waters using enrichment in conjunction with immunological detection. Journal of Microbiological Methods, 2004, 58, 223-231.	0.7	29
114	Runoff transport of faecal coliforms and phosphorus released from manure in grass buffer conditions. Letters in Applied Microbiology, 2005, 41, 230-234.	1.0	29
115	Quasi 3D modeling of water flow in vadose zone and groundwater. Journal of Hydrology, 2012, 450-451, 140-149.	2.3	29
116	Microbial Water Quality: Monitoring and Modeling. Journal of Environmental Quality, 2018, 47, 931-938.	1.0	29
117	An integrated environmental modeling framework for performing Quantitative Microbial Risk Assessments. Environmental Modelling and Software, 2014, 55, 77-91.	1.9	28
118	Spatial and temporal variation of fecal indicator organisms in two creeks in Beltsville, Maryland. Water Quality Research Journal of Canada, 2016, 51, 167-179.	1.2	28
119	Estimation of Soybean Yields at County and State Levels Using GLYCIM: A Case Study for Iowa. Agronomy Journal, 1995, 87, 926-931.	0.9	27
120	Pedotransfer functions in soil electrical resistivity estimation. Geoderma, 2011, 164, 195-202.	2.3	27
121	Using the Q10 model to simulate E. coli survival in cowpats on grazing lands. Environment International, 2013, 54, 1-10.	4.8	27
122	Rainfall-induced fecal indicator organisms transport from manured fields: Model sensitivity analysis. Environment International, 2014, 63, 121-129.	4.8	27
123	Stressorâ€“response modeling using the 2D water quality model and regression trees to predict chlorophyll-a in a reservoir system. Journal of Hydrology, 2015, 529, 805-815.	2.3	27
124	Relation of lead exposure to sediment ingestion in mute swans on the Chesapeake Bay, USA. Environmental Toxicology and Chemistry, 1998, 17, 2298-2301.	2.2	26
125	Soil pore surface properties in managed grasslands. Soil and Tillage Research, 2000, 55, 63-70.	2.6	26
126	PREDICTION OF A PORE DISTRIBUTION FACTOR FROM SOIL TEXTURAL AND MECHANICAL PARAMETERS. Soil Science, 2001, 166, 79-88.	0.9	26

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127	Effectiveness of vegetated filter strips in retention of Escherichia coli and Salmonella from swine manure slurry. Journal of Environmental Management, 2012, 110, 1-7.	3.8	26
128	Release Rates of Manureâ€Borne Coliform Bacteria from Data on Leaching through Stony Soil. Vadose Zone Journal, 2003, 2, 34-39.	1.3	26
129	Allometric Relationships in Field-grown Soybean. Annals of Botany, 1998, 82, 125-131.	1.4	25
130	Data Assimilation with Soil Water Content Sensors and Pedotransfer Functions in Soil Water Flow Modeling. Soil Science Society of America Journal, 2012, 76, 829-844.	1.2	25
131	Fractal modeling of airborne laser altimetry data. Remote Sensing of Environment, 1997, 61, 150-161.	4.6	24
132	INFILTRATION MEASUREMENT USING A VERTICAL TIME-DOMAIN REFLECTOMETRY PROBE AND A REFLECTION SIMULATION MODEL. Soil Science, 2002, 167, 1-8.	0.9	24
133	Effect of Bovine Manure on Cryptosporidium parvum Oocyst Attachment to Soil. Applied and Environmental Microbiology, 2005, 71, 6394-6397.	1.4	24
134	Irrigation waters and pipe-based biofilms as sources for antibiotic-resistant bacteria. Environmental Monitoring and Assessment, 2016, 188, 56.	1.3	24
135	Enrichment of stream water with fecal indicator organisms during baseflow periods. Environmental Monitoring and Assessment, 2017, 189, 51.	1.3	24
136	Escherichia coli Release from Streambed to Water Column during Baseflow Periods: A Modeling Study. Journal of Environmental Quality, 2017, 46, 219-226.	1.0	24
137	Use of the beta distribution for parameterizing variability of soil properties at the regional level for crop yield estimation. Agricultural Systems, 1995, 48, 73-86.	3.2	23
138	Water Budget Approach to Quantify Corn Grain Yields Under Variable Rooting Depths. Soil Science Society of America Journal, 2001, 65, 1219-1226.	1.2	23
139	Continuous time random walks for analyzing the transport of a passive tracer in a single fissure. Water Resources Research, 2005, 41, .	1.7	23
140	Revitalizing pedology through hydrology and connecting hydrology to pedology. Geoderma, 2006, 131, 255-256.	2.3	23
141	Single Collector Attachment Efficiency of Colloid Capture by a Cylindrical Collector in Laminar Overland Flow. Environmental Science & Technology, 2012, 46, 8878-8886.	4.6	23
142	Evaluating manure release parameters for nonpoint contaminant transport model KINEROS2/STWIR. Ecological Modelling, 2013, 263, 126-138.	1.2	23
143	Concurrent temporal stability of the apparent electrical conductivity and soil water content. Journal of Hydrology, 2017, 544, 319-326.	2.3	23
144	ESTIMATING SATURATED SOIL HYDRAULIC CONDUCTIVITY USING WATER RETENTION DATA AND NEURAL NETWORKS. Soil Science, 1999, 164, 552-560.	0.9	23

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145	Scale effects on information theory-based measures applied to streamflow patterns in two rural watersheds. Journal of Hydrology, 2012, 414-415, 99-107.	2.3	22
146	Solid Manure As a Source of Fecal Indicator Microorganisms: Release under Simulated Rainfall. Environmental Science & Technology, 2015, 49, 7860-7869.	4.6	22
147	Spatial Patterns of Escherichia coli Concentrations in Sediment before and after Highâ€Flow Events in a Firstâ€Order Creek. Journal of Environmental Quality, 2018, 47, 958-966.	1.0	22
148	Increase of CO 2 and Climate Change Effects on Iowa Soybean Yield, Simulated Using GLYCIM. Agronomy Journal, 1997, 89, 167-176.	0.9	21
149	Relationship between eae and stx Virulence Genes and Escherichia coli in an Agricultural Watershed: Implications for Irrigation Water Standards and Leafy Green Commoditiesâ€. Journal of Food Protection, 2011, 74, 18-23.	0.8	21
150	Soil Hydraulic Parameters and Surface Soil Moisture of a Tilled Bare Soil Plot Inversely Derived from Lâ€Band Brightness Temperatures. Vadose Zone Journal, 2014, 13, 1-18.	1.3	21
151	Developing the vegetation drought response index for South Korea (VegDRI-SKorea) to assess the vegetation condition during drought events. International Journal of Remote Sensing, 2018, 39, 1548-1574.	1.3	21
152	Fractal massâ€“size scaling of wetting soil aggregates. Ecological Modelling, 2005, 182, 317-322.	1.2	20
153	METHANE OXIDATION POTENTIAL OF RECLAIMED GRASSLAND SOILS AS AFFECTED BY MANAGEMENT. Soil Science, 2006, 171, 772-783.	0.9	20
154	LOSS OF BIOACTIVE PHOSPHORUS AND ENTERIC BACTERIA IN RUNOFF FROM DAIRY MANURE APPLIED TO SOD. Soil Science, 2008, 173, 511-521.	0.9	20
155	Modelling solute transport in soil columns using advectiveâ€“dispersive equations with fractional spatial derivatives. Advances in Engineering Software, 2010, 41, 4-8.	1.8	20
156	Information and complexity measures applied to observed and simulated soil moisture time series. Hydrological Sciences Journal, 2011, 56, 1027-1039.	1.2	20
157	Colloid Filtration in Surface Dense Vegetation: Experimental Results and Theoretical Predictions. Environmental Science & Technology, 2014, 48, 3883-3890.	4.6	20
158	Scaling and Pedotransfer in Numerical Simulations of Flow and Transport in Soils. Vadose Zone Journal, 2014, 13, vzj2014.02.0020.	1.3	20
159	Scaling, fractals and diversity in soils and ecohydrology. Ecological Modelling, 2005, 182, 217-220.	1.2	19
160	Storm Water Pollutant Removal Performance of Compost Filter Socks. Journal of Environmental Quality, 2009, 38, 1233-1239.	1.0	19
161	Pedotransfer in soil physics: trends and outlook â€” A review â€”. Agrokemia Es Talajtan, 2015, 64, 339-360.	0.1	19
162	Multifractal modeling of soil microtopography with multiple transects data. Ecological Complexity, 2009, 6, 240-245.	1.4	18

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163	Impact of Sedimentation on Wetland Carbon Sequestration in an Agricultural Watershed. Journal of Environmental Quality, 2009, 38, 804-813.	1.0	18
164	Fractal and Multifractal Models Applied to Porous Media. Vadose Zone Journal, 2009, 8, 174-176.	1.3	18
165	A ONE-PARAMETER RELATIONSHIP BETWEEN UNSATURATED HYDRAULIC CONDUCTIVITY AND WATER RETENTION. Soil Science, 2000, 165, 911-919.	0.9	18
166	A modular soil and root process simulator. Ecological Modelling, 1997, 94, 67-80.	1.2	17
167	Estimating Topsoil Water Content of Clay Soils With Data From Time-Lapse Electrical Conductivity Surveys. Soil Science, 2012, 177, 369-376.	0.9	17
168	GUICS: A Generic User Interface for Onâ€Farm Crop Simulations. Agronomy Journal, 1999, 91, 657-665.	0.9	16
169	Augmentation of groundwater monitoring networks using information theory and ensemble modeling with pedotransfer functions. Journal of Hydrology, 2013, 501, 13-24.	2.3	16
170	Interactions of E. coli with algae and aquatic vegetation in natural waters. Water Research, 2022, 209, 117952.	5.3	16
171	Seasonal changes in fractal landscape surface roughness estimated from airborne laser altimetry data. International Journal of Remote Sensing, 1998, 19, 2509-2516.	1.3	15
172	Association of Fecal Coliforms With Soil Aggregates. Soil Science, 2009, 174, 543-548.	0.9	15
173	Seasonality of E. coli and Enterococci Concentrations in Creek Water, Sediment, and Periphyton. Water, Air, and Soil Pollution, 2019, 230, 1.	1.1	15
174	AI4Water v1.0: an open-source python package for modeling hydrological time series using data-driven methods. Geoscientific Model Development, 2022, 15, 3021-3039.	1.3	15
175	Testing a Convective-dispersive Model of Two-dimensional Root Growth and Proliferation in a Greenhouse Experiment with Maize Plants. Annals of Botany, 2001, 87, 759-768.	1.4	14
176	BALANCED ENTROPY INDEX TO CHARACTERIZE SOIL TEXTURE FOR SOIL WATER RETENTION ESTIMATION. Soil Science, 2005, 170, 759-766.	0.9	14
177	Size distributions of manure particles released under simulated rainfall. Journal of Environmental Management, 2009, 90, 1365-1369.	3.8	14
178	Persistence ofEscherichia coliintroduced into streambed sediments with goose, deer and bovine animal waste. Letters in Applied Microbiology, 2012, 55, 345-353.	1.0	14
179	Chlorophyll-aconcentration estimation using three difference bio-optical algorithms, including a correction for the low-concentration range: the case of the Yiam reservoir, Korea. Remote Sensing Letters, 2016, 7, 407-416.	0.6	14
180	Simpler models in environmental studies and predictions. Critical Reviews in Environmental Science and Technology, 2017, 47, 1669-1712.	6.6	14

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