

# Yakov A Pachepsky

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

261  
papers

10,780  
citations

49  
h-index

94  
g-index

297  
ext. papers

12,134  
ext. citations

4.6  
avg, IF

6.27  
L-index

#	Paper	IF	Citations
261	On shapes of cumulative infiltration curves. <i>Geoderma</i> , <b>2022</b> , 412, 115715	6.7	
260	AI4Water v1.0: an open-source python package for modeling hydrological time series using data-driven methods. <i>Geoscientific Model Development</i> , <b>2022</b> , 15, 3021-3039	6.3	0
259	Elucidating spatial patterns of E. coli in two irrigation ponds with empirical orthogonal functions. <i>Journal of Hydrology</i> , <b>2022</b> , 609, 127770	6	0
258	Hierarchical deep learning model to simulate phytoplankton at phylum/class and genus levels and zooplankton at the genus level.. <i>Water Research</i> , <b>2022</b> , 218, 118494	12.5	0
257	Fate and transport in environmental quality. <i>Journal of Environmental Quality</i> , <b>2021</b> , 50, 1282-1289	3.4	
256	Persistent Patterns of E. coli Concentrations in Two Irrigation Ponds from 3 Years of Monitoring. <i>Water, Air, and Soil Pollution</i> , <b>2021</b> , 232, 1	2.6	2
255	Interactions of E. coli with algae and aquatic vegetation in natural waters.. <i>Water Research</i> , <b>2021</b> , 209, 117952	12.5	0
254	The site-specific selection of the infiltration model based on the global dataset and random forest algorithm. <i>Vadose Zone Journal</i> , <b>2021</b> , 20, e20125	2.7	1
253	Water retention and field soil water states in a vertisol under Long-Term direct drill and conventional tillage. <i>European Journal of Soil Science</i> , <b>2021</b> , 72, 667-678	3.4	0
252	Analysis of spatial variability of soil water retention using the cumulative distribution function matching. <i>Canadian Journal of Soil Science</i> , <b>2021</b> , 101, 84-90	1.4	
251	Prediction of Concentrations in Agricultural Pond Waters: Application and Comparison of Machine Learning Algorithms.. <i>Frontiers in Artificial Intelligence</i> , <b>2021</b> , 4, 768650	3	1
250	In-stream &lt;i>Escherichia coli</i> modeling using high-temporal-resolution data with deep learning and process-based models. <i>Hydrology and Earth System Sciences</i> , <b>2021</b> , 25, 6185-6202	5.5	0
249	Analysis of Spatiotemporal Variability of Corn Yields Using Empirical Orthogonal Functions. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 3339	3	1
248	Accounting for the Three-Dimensional Distribution of Escherichia coli Concentrations in Pond Water in Simulations of the Microbial Quality of Water Withdrawn for Irrigation. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 1708	3	2
247	Effect of the time scale on the uncertainty of geometric mean concentrations of fecal indicators in creek under baseflow conditions. <i>Scientific Reports</i> , <b>2020</b> , 10, 1720	4.9	
246	Assessment of a green roof practice using the coupled SWMM and HYDRUS models. <i>Journal of Environmental Management</i> , <b>2020</b> , 261, 109920	7.9	17
245	Impact of marble powder amendment on hydraulic properties of a sandy soil. <i>International Agrophysics</i> , <b>2020</b> , 34, 223-232	2	2

244	Drone-based imaging to assess the microbial water quality in an irrigation pond: A pilot study. <i>Science of the Total Environment</i> , <b>2020</b> , 716, 135757	10.2	10
243	Temporal stability of E. coli and Enterococci concentrations in a Pennsylvania creek. <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 4021-4031	5.1	5
242	Data assimilation in surface water quality modeling: A review. <i>Water Research</i> , <b>2020</b> , 186, 116307	12.5	13
241	Intraseasonal variation of phycocyanin concentrations and environmental covariates in two agricultural irrigation ponds in Maryland, USA. <i>Environmental Monitoring and Assessment</i> , <b>2020</b> , 192, 706 <sup>3.1</sup>	3.1	1
240	Using convolutional neural network for predicting cyanobacteria concentrations in river water. <i>Water Research</i> , <b>2020</b> , 186, 116349	12.5	15
239	Manure Consistency and Weathering Affect the Removal of Fecal Indicator Bacteria from Grass-Covered Soil. <i>Water, Air, and Soil Pollution</i> , <b>2020</b> , 231, 1	2.6	3
238	Modeling the kinetics of manure-borne fecal indicator removal in runoff. <i>Journal of Environmental Quality</i> , <b>2020</b> , 49, 1633-1643	3.4	2
237	Modeling the photoinactivation and transport of somatic and F-specific coliphages at a Great Lakes beach. <i>Journal of Environmental Quality</i> , <b>2020</b> , 49, 1612-1623	3.4	4
236	Hyperspectral Imaging from a Multipurpose Floating Platform to Estimate Chlorophyll-a Concentrations in Irrigation Pond Water. <i>Remote Sensing</i> , <b>2020</b> , 12, 2070	5	6
235	A novel water quality module of the SWMM model for assessing low impact development (LID) in urban watersheds. <i>Journal of Hydrology</i> , <b>2020</b> , 586, 124886	6	29
234	Analysis of Escherichia coli and Enterococci Concentrations Patterns in a Pennsylvania Creek Using Empirical Orthogonal Functions. <i>Journal of Environmental Quality</i> , <b>2019</b> , 48, 1703-1710	3.4	1
233	Seasonality of E. coli and Enterococci Concentrations in Creek Water, Sediment, and Periphyton. <i>Water, Air, and Soil Pollution</i> , <b>2019</b> , 230, 1	2.6	5
232	How Critical Is the Assimilation Frequency of Water Content Measurements for Obtaining Soil Hydraulic Parameters with Data Assimilation?. <i>Vadose Zone Journal</i> , <b>2019</b> , 18, 1-10	2.7	3
231	Upscaling Issues in Ecohydrological Observations. <i>Ecohydrology</i> , <b>2019</b> , 435-454	0.2	4
230	Intraseasonal variation of E. coli and environmental covariates in two irrigation ponds in Maryland, USA. <i>Science of the Total Environment</i> , <b>2019</b> , 670, 732-740	10.2	10
229	On the Information Content of Coarse Data with Respect to the Particle Size Distribution of Complex Granular Media: Rationale Approach and Testing. <i>Entropy</i> , <b>2019</b> , 21,	2.8	1
228	Depth-Dependent Response of Fecal Indicator Bacteria in Sediments to Changes in Water Column Nutrient Levels. <i>Journal of Environmental Quality</i> , <b>2019</b> , 48, 1074-1081	3.4	2
227	The Effect of Temperature Oscillations and Sediment Texture on Fecal Indicator Bacteria Survival in Sediments. <i>Water, Air, and Soil Pollution</i> , <b>2019</b> , 230, 1	2.6	6

226	Evaluating the influence of climate change on the fate and transport of fecal coliform bacteria using the modified SWAT model. <i>Science of the Total Environment</i> , <b>2019</b> , 658, 753-762	10.2	24
225	Simulating seasonal variability of phytoplankton in stream water using the modified SWAT model. <i>Environmental Modelling and Software</i> , <b>2019</b> , 122, 104073	5.2	9
224	MATLAB algorithm to implement soil water data assimilation with the Ensemble Kalman Filter using HYDRUS. <i>MethodsX</i> , <b>2018</b> , 5, 184-203	1.9	4
223	Developing the vegetation drought response index for South Korea (VegDRI-SKorea) to assess the vegetation condition during drought events. <i>International Journal of Remote Sensing</i> , <b>2018</b> , 39, 1548-1574 <sup>1</sup>	2.1	15
222	Obtaining soil hydraulic parameters from soil water content data assimilation under different climatic/soil conditions. <i>Catena</i> , <b>2018</b> , 163, 311-320	5.8	9
221	Development and evaluation of the bacterial fate and transport module for the Agricultural Policy/Environmental eXtender (APEX) model. <i>Science of the Total Environment</i> , <b>2018</b> , 615, 47-58	10.2	12
220	Technical note: Saturated hydraulic conductivity and textural heterogeneity of soils. <i>Hydrology and Earth System Sciences</i> , <b>2018</b> , 22, 3923-3932	5.5	21
219	Development of a Nowcasting System Using Machine Learning Approaches to Predict Fecal Contamination Levels at Recreational Beaches in Korea. <i>Journal of Environmental Quality</i> , <b>2018</b> , 47, 1094-1102 <sup>1</sup>	3.4	24
218	Development and analysis of the Soil Water Infiltration Global database. <i>Earth System Science Data</i> , <b>2018</b> , 10, 1237-1263	10.5	54
217	Upscaling Issues in Ecohydrological Observations. <i>Ecohydrology</i> , <b>2018</b> , 1-21	0.2	1
216	Temporal Stability of Escherichia coli Concentrations in Waters of Two Irrigation Ponds in Maryland. <i>Applied and Environmental Microbiology</i> , <b>2018</b> , 84,	4.8	22
215	Capturing Microbial Sources Distributed in a Mixed-use Watershed within an Integrated Environmental Modeling Workflow. <i>Environmental Modelling and Software</i> , <b>2018</b> , 99, 126-146	5.2	5
214	Spatial Patterns of Concentrations in Sediment before and after High-Flow Events in a First-Order Creek. <i>Journal of Environmental Quality</i> , <b>2018</b> , 47, 958-966	3.4	13
213	Export from Manured Fields Depends on the Time between the Start of Rainfall and Runoff Initiation. <i>Journal of Environmental Quality</i> , <b>2018</b> , 47, 1293-1297	3.4	2
212	Microbial Water Quality: Monitoring and Modeling. <i>Journal of Environmental Quality</i> , <b>2018</b> , 47, 931-938	3.4	17
211	Functional Evaluation of Three Manure-Borne Indicator Bacteria Release Models with Multiyear Field Experiment Data. <i>Water, Air, and Soil Pollution</i> , <b>2018</b> , 229, 1573-2932	2.6	2
210	On soil textural classifications and soil-texture-based estimations. <i>Solid Earth</i> , <b>2018</b> , 9, 159-165	3.3	5
209	Hydrological modeling of Fecal Indicator Bacteria in a tropical mountain catchment. <i>Water Research</i> , <b>2017</b> , 119, 102-113	12.5	33

208	Enrichment of stream water with fecal indicator organisms during baseflow periods. <i>Environmental Monitoring and Assessment</i> , <b>2017</b> , 189, 51	3.1	20
207	Modeling the interannual variability of microbial quality metrics of irrigation water in a Pennsylvania stream. <i>Journal of Environmental Management</i> , <b>2017</b> , 187, 253-264	7.9	6
206	Accuracy of sample dimension-dependent pedotransfer functions in estimation of soil saturated hydraulic conductivity. <i>Catena</i> , <b>2017</b> , 149, 374-380	5.8	18
205	Differential release of manure-borne bioactive phosphorus forms to runoff and leachate under simulated rain. <i>Journal of Environmental Management</i> , <b>2017</b> , 192, 309-318	7.9	2
204	Scale effects on runoff and soil erosion in rangelands: Observations and estimations with predictors of different availability. <i>Catena</i> , <b>2017</b> , 151, 161-173	5.8	27
203	Simpler models in environmental studies and predictions. <i>Critical Reviews in Environmental Science and Technology</i> , <b>2017</b> , 47, 1669-1712	11.1	10
202	Release from Streambed to Water Column during Baseflow Periods: A Modeling Study. <i>Journal of Environmental Quality</i> , <b>2017</b> , 46, 219-226	3.4	18
201	Pedotransfer Functions in Earth System Science: Challenges and Perspectives. <i>Reviews of Geophysics</i> , <b>2017</b> , 55, 1199-1256	23.1	186
200	Concurrent temporal stability of the apparent electrical conductivity and soil water content. <i>Journal of Hydrology</i> , <b>2017</b> , 544, 319-326	6	21
199	Scale and scaling in soils. <i>Geoderma</i> , <b>2017</b> , 287, 4-30	6.7	49
198	Transport of Conservative and Smart Tracers in a First-Order Creek: Role of Transient Storage Type. <i>Water (Switzerland)</i> , <b>2017</b> , 9, 485	3	7
197	Modeling fate and transport of fecally-derived microorganisms at the watershed scale: State of the science and future opportunities. <i>Water Research</i> , <b>2016</b> , 100, 38-56	12.5	96
196	Irrigation waters and pipe-based biofilms as sources for antibiotic-resistant bacteria. <i>Environmental Monitoring and Assessment</i> , <b>2016</b> , 188, 56	3.1	18
195	Modeling seasonal variability of fecal coliform in natural surface waters using the modified SWAT. <i>Journal of Hydrology</i> , <b>2016</b> , 535, 377-385	6	43
194	Chlorophyll-a concentration estimation using three difference bio-optical algorithms, including a correction for the low-concentration range: the case of the Yiam reservoir, Korea. <i>Remote Sensing Letters</i> , <b>2016</b> , 7, 407-416	2.3	11
193	Rainfall intensity effects on removal of fecal indicator bacteria from solid dairy manure applied over grass-covered soil. <i>Science of the Total Environment</i> , <b>2016</b> , 539, 583-591	10.2	29
192	Predicting microbial water quality with models: Over-arching questions for managing risk in agricultural catchments. <i>Science of the Total Environment</i> , <b>2016</b> , 544, 39-47	10.2	44
191	Projected irrigation requirements for upland crops using soil moisture model under climate change in South Korea. <i>Agricultural Water Management</i> , <b>2016</b> , 165, 163-180	5.9	25

190	Can E. coli or thermotolerant coliform concentrations predict pathogen presence or prevalence in irrigation waters?. <i>Critical Reviews in Microbiology</i> , <b>2016</b> , 42, 384-93	7.8	40
189	Survival of Manure-borne and Fecal Coliforms in Soil: Temperature Dependence as Affected by Site-Specific Factors. <i>Journal of Environmental Quality</i> , <b>2016</b> , 45, 949-57	3.4	22
188	Preface to the Special Issue of Vadose Zone Journal on Soil as Complex Systems. <i>Vadose Zone Journal</i> , <b>2016</b> , 15, 1-3	2.7	2
187	The significance of soils and soil science towards realization of the United Nations Sustainable Development Goals. <i>Soil</i> , <b>2016</b> , 2, 111-128	5.8	795
186	Rainfall-induced release of microbes from manure: model development, parameter estimation, and uncertainty evaluation on small plots. <i>Journal of Water and Health</i> , <b>2016</b> , 14, 443-59	2.2	9
185	Spatial and temporal variation of fecal indicator organisms in two creeks in Beltsville, Maryland. <i>Water Quality Research Journal of Canada</i> , <b>2016</b> , 51, 167-179	1.7	21
184	On the role of patterns in understanding the functioning of soil-vegetation-atmosphere systems. <i>Journal of Hydrology</i> , <b>2016</b> , 542, 63-86	6	29
183	Modeling Soil Processes: Review, Key Challenges, and New Perspectives. <i>Vadose Zone Journal</i> , <b>2016</b> , 15, vzj2015.09.0131	2.7	311
182	Sample dimensions effect on prediction of soil water retention curve and saturated hydraulic conductivity. <i>Journal of Hydrology</i> , <b>2015</b> , 528, 127-137	6	38
181	StressorResponse modeling using the 2D water quality model and regression trees to predict chlorophyll-a in a reservoir system. <i>Journal of Hydrology</i> , <b>2015</b> , 529, 805-815	6	22
180	Transport of Water and Solutes in Soils as in Fractal Porous Media. <i>SSSA Special Publication Series</i> , <b>2015</b> , 51-75	0	1
179	Hydropedology: Synergistic integration of soil science and hydrology in the Critical Zone. <i>Hydrological Processes</i> , <b>2015</b> , 29, 4559-4561	3.3	9
178	Soil Surface Curvature and the Spatial and Temporal Variability of Corn Grain Yields on a Hillslope. <i>Assa, Cssa and Sssa</i> , <b>2015</b> , 203-214	0.3	
177	Saturated Hydraulic Conductivity of US Soils Grouped According to Textural Class and Bulk Density. <i>Soil Science Society of America Journal</i> , <b>2015</b> , 79, 1094-1100	2.5	34
176	Release and Removal of Microorganisms from Land-Deposited Animal Waste and Animal Manures: A Review of Data and Models. <i>Journal of Environmental Quality</i> , <b>2015</b> , 44, 1338-54	3.4	24
175	Solid Manure As a Source of Fecal Indicator Microorganisms: Release under Simulated Rainfall. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 7860-9	10.3	18
174	Depth-Dependent Survival of Escherichia coli and Enterococci in Soil after Manure Application and Simulated Rainfall. <i>Applied and Environmental Microbiology</i> , <b>2015</b> , 81, 4801-8	4.8	30
173	Pedotransfer in soil physics: trends and outlook [A review] <i>Agrokemia Es Talajtan</i> , <b>2015</b> , 64, 339-360	0.1	15

172	Rainfall-runoff model parameter estimation and uncertainty evaluation on small plots. <i>Hydrological Processes</i> , <b>2014</b> , 28, 5220-5235	3.3	9
171	Rainfall-induced fecal indicator organisms transport from manured fields: model sensitivity analysis. <i>Environment International</i> , <b>2014</b> , 63, 121-9	12.9	22
170	Comparing temperature effects on Escherichia coli, Salmonella, and Enterococcus survival in surface waters. <i>Letters in Applied Microbiology</i> , <b>2014</b> , 59, 278-83	2.9	32
169	Modeling runoff and microbial overland transport with KINEROS2/STWIR model: Accuracy and uncertainty as affected by source of infiltration parameters. <i>Journal of Hydrology</i> , <b>2014</b> , 519, 644-655	6	9
168	Colloid filtration in surface dense vegetation: experimental results and theoretical predictions. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 3883-90	10.3	16
167	Response of coliform populations in streambed sediment and water column to changes in nutrient concentrations in water. <i>Water Research</i> , <b>2014</b> , 59, 316-24	12.5	31
166	On the spatio-temporal dynamics of soil moisture at the field scale. <i>Journal of Hydrology</i> , <b>2014</b> , 516, 76-96	9.6	27.5
165	Scaling and Pedotransfer in Numerical Simulations of Flow and Transport in Soils. <i>Vadose Zone Journal</i> , <b>2014</b> , 13, vzj2014.02.0020	2.7	15
164	Effects of Soil Hydraulic Properties on the Spatial Variability of Soil Water Content: Evidence from Sensor Network Data and Inverse Modeling. <i>Vadose Zone Journal</i> , <b>2014</b> , 13, vzj2014.07.0099	2.7	28
163	Temporal stability of soil water content as affected by climate and soil hydraulic properties: a simulation study. <i>Hydrological Processes</i> , <b>2014</b> , 28, 1899-1915	3.3	30
162	Performance of Weibull and Linear Semi-logarithmic Models in Simulating Inactivation in Waters. <i>Journal of Environmental Quality</i> , <b>2014</b> , 43, 1559-65	3.4	5
161	Soil Hydraulic Parameters and Surface Soil Moisture of a Tilled Bare Soil Plot Inversely Derived from L-Band Brightness Temperatures. <i>Vadose Zone Journal</i> , <b>2014</b> , 13, vzj2013.04.0075	2.7	20
160	A Hydrophysical Database to Develop Pedotransfer Functions for Brazilian Soils: Challenges and Perspectives <b>2014</b> , 467-494		1
159	Effect of soil hydraulic properties on the relationship between the spatial mean and variability of soil moisture. <i>Journal of Hydrology</i> , <b>2014</b> , 516, 154-160	6	36
158	An integrated environmental modeling framework for performing Quantitative Microbial Risk Assessments. <i>Environmental Modelling and Software</i> , <b>2014</b> , 55, 77-91	5.2	23
157	Sensor Network Data Assimilation in Soil Water Flow Modeling <b>2014</b> , 239-260		
156	Augmentation of groundwater monitoring networks using information theory and ensemble modeling with pedotransfer functions. <i>Journal of Hydrology</i> , <b>2013</b> , 501, 13-24	6	14
155	Coliform retention and release in biofilms formed on new and weathered irrigation pipes. <i>Irrigation Science</i> , <b>2013</b> , 31, 971-981	3.1	3

154	Evaluating manure release parameters for nonpoint contaminant transport model KINEROS2/STWIR. <i>Ecological Modelling</i> , <b>2013</b> , 263, 126-138	3	22
153	Comparison of microbial quality of irrigation water delivered in aluminum and PVC pipes. <i>Agricultural Water Management</i> , <b>2013</b> , 129, 145-151	5.9	4
152	Escherichia coli survival in waters: temperature dependence. <i>Water Research</i> , <b>2013</b> , 47, 569-78	12.5	117
151	Modeling transport of Escherichia coli in a creek during and after artificial high-flow events: three-year study and analysis. <i>Water Research</i> , <b>2013</b> , 47, 2676-88	12.5	33
150	Scaling in Soil and Other Complex Porous Media. <i>Vadose Zone Journal</i> , <b>2013</b> , 12, vzt2013.05.0092	2.7	2
149	Using the Q10 model to simulate E. coli survival in cowpats on grazing lands. <i>Environment International</i> , <b>2013</b> , 54, 1-10	12.9	24
148	Modeling local control effects on the temporal stability of soil water content. <i>Journal of Hydrology</i> , <b>2013</b> , 481, 106-118	6	47
147	Scale effects on information theory-based measures applied to streamflow patterns in two rural watersheds. <i>Journal of Hydrology</i> , <b>2012</b> , 414-415, 99-107	6	18
146	Quasi 3D modeling of water flow in vadose zone and groundwater. <i>Journal of Hydrology</i> , <b>2012</b> , 450-451, 140-149	6	26
145	Persistence of Escherichia coli introduced into streambed sediments with goose, deer and bovine animal waste. <i>Letters in Applied Microbiology</i> , <b>2012</b> , 55, 345-53	2.9	12
144	The modified SWAT model for predicting fecal coliforms in the Wachusett Reservoir Watershed, USA. <i>Water Research</i> , <b>2012</b> , 46, 4750-60	12.5	65
143	Effectiveness of vegetated filter strips in retention of Escherichia coli and Salmonella from swine manure slurry. <i>Journal of Environmental Management</i> , <b>2012</b> , 110, 1-7	7.9	23
142	Single collector attachment efficiency of colloid capture by a cylindrical collector in laminar overland flow. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 8878-86	10.3	19
141	Temporal Stability of Soil Water Contents: A Review of Data and Analyses. <i>Vadose Zone Journal</i> , <b>2012</b> , 11, vzt2011.0178	2.7	142
140	Effect of biofilm in irrigation pipes on microbial quality of irrigation water. <i>Letters in Applied Microbiology</i> , <b>2012</b> , 54, 217-24	2.9	28
139	Data Assimilation with Soil Water Content Sensors and Pedotransfer Functions in Soil Water Flow Modeling. <i>Soil Science Society of America Journal</i> , <b>2012</b> , 76, 829-844	2.5	20
138	Estimating Topsoil Water Content of Clay Soils With Data From Time-Lapse Electrical Conductivity Surveys. <i>Soil Science</i> , <b>2012</b> , 177, 369-376	0.9	14
137	Survival of E. coli O157:H12 in creek sediments after inoculation and re-inoculation. <i>International Journal of Environment and Pollution</i> , <b>2011</b> , 46, 234	0.7	3



136	Pedotransfer functions in soil electrical resistivity estimation. <i>Geoderma</i> , <b>2011</b> , 164, 195-202	6.7	20
135	Escherichia Coli and Fecal Coliforms in Freshwater and Estuarine Sediments. <i>Critical Reviews in Environmental Science and Technology</i> , <b>2011</b> , 41, 1067-1110	11.1	180
134	Relationship between eae and stx virulence genes and Escherichia coli in an agricultural watershed: implications for irrigation water standards and leafy green commodities. <i>Journal of Food Protection</i> , <b>2011</b> , 74, 18-23	2.5	21
133	Prediction of contamination potential of groundwater arsenic in Cambodia, Laos, and Thailand using artificial neural network. <i>Water Research</i> , <b>2011</b> , 45, 5535-44	12.5	83
132	Sensitivity of a Capacitance Sensor to Artificial Macropores. <i>Soil Science</i> , <b>2011</b> , 176, 9-14	0.9	1
131	Sensitivity analysis of unsaturated flow and contaminant transport with correlated parameters. <i>Journal of Hydrology</i> , <b>2011</b> , 397, 238-249	6	34
130	Geometric and Hydrodynamic Characteristics of Three-dimensional Saturated Prefractal Porous Media Determined with Lattice Boltzmann Modeling. <i>Transport in Porous Media</i> , <b>2011</b> , 90, 831-846	3.1	10
129	Uncertainty in modelling of faecal coliform overland transport associated with manure application in Maryland. <i>Hydrological Processes</i> , <b>2011</b> , 25, 2393-2404	3.3	28
128	Information and complexity measures applied to observed and simulated soil moisture time series. <i>Hydrological Sciences Journal</i> , <b>2011</b> , 56, 1027-1039	3.5	19
127	Toward Improving Global Estimates of Field Soil Water Capacity. <i>Soil Science Society of America Journal</i> , <b>2011</b> , 75, 807-812	2.5	33
126	Kirkham's Legacy and Contemporary Challenges in Soil Physics Research. <i>Soil Science Society of America Journal</i> , <b>2011</b> , 75, 1589-1601	2.5	39
125	Irrigation Waters as a Source of Pathogenic Microorganisms in Produce: A Review. <i>Advances in Agronomy</i> , <b>2011</b> , 113, 75-141	7.7	65
124	Event-based estimation of water budget components using a network of multi-sensor capacitance probes. <i>Hydrological Sciences Journal</i> , <b>2011</b> , 56, 1227-1241	3.5	5
123	Using Pedotransfer Functions to Estimate the van Genuchten-Mualem Soil Hydraulic Properties: A Review. <i>Vadose Zone Journal</i> , <b>2010</b> , 9, 795-820	2.7	267
122	Multifractal analysis of discretized X-ray CT images for the characterization of soil macropore structures. <i>Geoderma</i> , <b>2010</b> , 156, 32-42	6.7	99
121	Biofilm morphology as related to the porous media clogging. <i>Water Research</i> , <b>2010</b> , 44, 1193-201	12.5	58
120	Survival of manure-borne E. coli in streambed sediment: effects of temperature and sediment properties. <i>Water Research</i> , <b>2010</b> , 44, 2753-62	12.5	118
119	Average concentration of soluble salts in leached soils inferred from the convective-dispersive equation. <i>Irrigation Science</i> , <b>2010</b> , 28, 431-434	3.1	3

118	Modelling solute transport in soil columns using advective-dispersive equations with fractional spatial derivatives. <i>Advances in Engineering Software</i> , <b>2010</b> , 41, 4-8	3.6	14
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