Philippe C Baveye

List of Publications by Year
in descending order

206 papers	7,841 citations	47 h-index	81 g-index
		47006	60623
219 all docs	219 docs citations	219 times ranked	8292 citing authors

#	Article	IF	Citations
1	Accounting for soil architecture and microbial dynamics in microscale models: Current practices in soil science and the path ahead. European Journal of Soil Science, 2022, 73, .	3.9	22
2	Scenario modelling of carbon mineralization in <scp>3D</scp> soil architecture at the microscale: Toward an accessibility coefficient of organic matter for bacteria. European Journal of Soil Science, 2022, 73, .	3.9	10
3	A holistic perspective on soil architecture is needed as a key to soil functions. European Journal of Soil Science, 2022, 73, .	3.9	62
4	3D Quantum Cuts for automatic segmentation of porous media in tomography images. Computers and Geosciences, 2022, 159, 105017.	4.2	4
5	Lessons from a landmark 1991 article on soil structure: distinct precedence of non-destructive assessment and benefits of fresh perspectives in soil research. Soil Research, 2022, 60, 321-336.	1.1	9
6	Editorial: Searching for Solutions to Soil Pollution: Underlying Soil-Contaminant Interactions and Development of Innovative Land Remediation and Reclamation Techniques. Frontiers in Environmental Science, 2022, 9, .	3.3	2
7	Soil carbon sequestration for climate change mitigation: Mineralization kinetics of organic inputs as an overlooked limitation. European Journal of Soil Science, 2022, 73, .	3.9	34
8	Editorial: Carbon Storage in Agricultural and Forest Soils. Frontiers in Environmental Science, 2022, 10, .	3.3	3
9	Colloidal stability and aggregation kinetics of nanocrystal CdSe/ZnS quantum dots in aqueous systems: Effects of ionic strength, electrolyte type, and natural organic matter. SN Applied Sciences, 2022, 4, 1.	2.9	7
10	Understanding the joint impacts of soil architecture and microbial dynamics on soil functions: Insights derived from microscale models. European Journal of Soil Science, 2022, 73, .	3.9	10
11	Response to â€˜A wellâ€established fact: Rapid mineralization of organic inputs is an important factor for soil carbon sequestrationâ€™ by Angers et al.. European Journal of Soil Science, 2022, 73, .	3.9	2
12	Influence of soil structure on the spread of <scp>Pseudomonas fluorescens</scp> in soil at microscale. European Journal of Soil Science, 2021, 72, 141-153.	3.9	29
13	Bypass and hyperbole in soil research: Worrisome practices critically reviewed through examples. European Journal of Soil Science, 2021, 72, 1-20.	3.9	40
14	To what extent can multifractal measures provide an accurate model of the porosity of soils?. European Journal of Soil Science, 2021, 72, 510-526.	3.9	4
15	Bypass and hyperbole in soil research: A personal view on plausible causes and possible remedies. European Journal of Soil Science, 2021, 72, 21-28.	3.9	14
16	Who put the film in biofilm? The migration of a term from wastewater engineering to medicine and beyond. Npj Biofilms and Microbiomes, 2021, 7, 10.	6.4	62
17	Soil health at a crossroad. Soil Use and Management, 2021, 37, 215-219.	4.9	22
18	Objectivity of the peerâ€review process: Enduring myth, reality, and possible remedies. Learned Publishing, 2021, 34, 696.	1.7	5

#	Article	IF	Citations
19	Comparison of empirical and process-based modelling to quantify soil-supported ecosystem services on the Saclay plateau (France). Ecosystem Services, 2021, 50, 101332.	5.4	6
20	Connectivity and pore accessibility in models of soil carbon cycling. Global Change Biology, 2021, 27, 5405-5406.	9.5	2
21	Editorial: Assessment and Modeling of Soil Functions or Soil-Based Ecosystem Services: Theory and Applications to Practical Problems. Frontiers in Environmental Science, 2021, 9, .	3.3	1
22	Editorial: Microscale Modelling of Soil Processes: Recent Advances, Challenges, and the Path Ahead. Frontiers in Environmental Science, 2021, 9, .	3.3	3
23	The â€œ4p1000â€•initiative: A new name should be adopted. Ambio, 2020, 49, 361-362.	5.5	9
24	Colloidal stability and aggregation kinetics of nanocrystal CdSe/ZnS quantum dots in aqueous systems: effects of pH and organic ligands. Journal of Nanoparticle Research, 2020, 22, 1.	1.9	7
25	Editorial: Innovative Approaches to Learning in Environmental Science. Frontiers in Environmental Science, 2020, 8, .	3.3	2
26	Soil Organic Matter Research and Climate Change: Merely Re-storing Carbon Versus Restoring Soil Functions. Frontiers in Environmental Science, 2020, 8, .	3.3	60
27	Using X-ray microtomography to characterize the burrowing behaviour of earthworms in heterogeneously polluted soils. Pedobiologia, 2020, 83, 150671.	1.2	8
28	â€œSoil biofilmsâ€• Misleading description of the spatial distribution of microbial biomass in soils. Soil Ecology Letters, 2020, 2, 2-5.	4.5	5
29	Direct measurement of selected soil services in a drained agricultural field: Methodology development and case study in Saclay (France). Ecosystem Services, 2020, 42, 101088.	5.4	12
30	Editorial: Interactive Feedbacks Between Soil Fauna and Soil Processes. Frontiers in Environmental Science, 2020, 8, .	3.3	6
31	Combination of techniques to quantify the distribution of bacteria in their soil microhabitats at different spatial scales. Geoderma, 2019, 334, 165-174.	5.1	53
32	Editorial: Elucidating Microbial Processes in Soils and Sediments: Microscale Measurements and Modeling. Frontiers in Environmental Science, 2019, 7, .	3.3	7
33	Ecological risk of combined pollution on soil ecosystem functions: Insight from the functional sensitivity and stability. Environmental Pollution, 2019, 255, 113184.	7.5	15
34	Soil aggregates as biogeochemical reactors: Not a way forward in the research on soilâ€“atmosphere exchange of greenhouse gases. Global Change Biology, 2019, 25, 2205-2208.	9.5	22
35	The (Bio)Chemistry of Soil Humus and Humic Substances: Why Is the â€œNew Viewâ€•Still Considered Novel After More Than 80 Years?. Frontiers in Environmental Science, 2019, 7, .	3.3	43
36	Response: Commentary: Is the Focus on â€œEcosystemsâ€•a Liability in the Research on Nature's Services?. Frontiers in Ecology and Evolution, 2019, 7, .	2.2	1

#	Article	IF	Citations
37	Expanding the Frontier in Education Research: Teacher Education Could Help Promote Activities That Affect Students' Ability to Learn in the Long-Run. Frontiers in Education, 2019, 3, .	2.1	0
38	From spheres to ellipsoids: Speeding up considerably the morphological modeling of pore space and water retention in soils. Computers and Geosciences, 2019, 123, 20-37.	4.2	7
39	An Evolutionary Perspective on Industrial and Sustainable Agriculture. , 2019, , 425-433.		7
40	Microcolumn-based speciation analysis of thallium in soil and green cabbage. Science of the Total Environment, 2018, 630, 146-153.	8.0	21
41	Analysis of metal(loid)s contamination and their continuous input in soils around a zinc smelter: Development of methodology and a case study in South Korea. Environmental Pollution, 2018, 238, 140-149.	7.5	28
42	The â€œ4 per 1000â€•initiative: A credibility issue for the soil science community?. Geoderma, 2018, 309, 118-123.	5.1	82
43	Editorial: Agroecosystems Facing Global Climate Change: The Search for Sustainability. Frontiers in Environmental Science, 2018, 6, .	3.3	2
44	A modified method of separating Tl(I) and Tl(III) in aqueous samples using solid phase extraction. Chemistry Central Journal, 2018, 12, 132.	2.6	6
45	Pore-Scale Monitoring of the Effect of Microarchitecture on Fungal Growth in a Two-Dimensional Soil-Like Micromodel. Frontiers in Environmental Science, 2018, 6, .	3.3	39
46	Control of Pore Geometry in Soil Microcosms and Its Effect on the Growth and Spread of Pseudomonas and Bacillus sp.. Frontiers in Environmental Science, 2018, 6, .	3.3	23
47	Is the Focus on â€œEcosystemsâ€•a Liability in the Research on Nature's Services?. Frontiers in Ecology and Evolution, 2018, 6, .	2.2	11
48	To what extent do uncertainty and sensitivity analyses help unravel the influence of microscale physical and biological drivers in soil carbon dynamics models?. Ecological Modelling, 2018, 383, 10-22.	2.5	13
49	Emergent Properties of Microbial Activity in Heterogeneous Soil Microenvironments: Different Research Approaches Are Slowly Converging, Yet Major Challenges Remain. Frontiers in Microbiology, 2018, 9, 1929.	3.5	168
50	Microscale Heterogeneity of the Spatial Distribution of Organic Matter Can Promote Bacterial Biodiversity in Soils: Insights From Computer Simulations. Frontiers in Microbiology, 2018, 9, 1583.	3.5	60
51	Quantification of ecosystem services: Beyond all the â€œguesstimatesâ€•, how do we get real data?. Ecosystem Services, 2017, 24, 47-49.	5.4	29
52	Optimal organic carbon values for soil structure quality of arable soils. Does clay content matter?. Geoderma, 2017, 302, 14-21.	5.1	114
53	Brazilian Agriculture in Perspective. Advances in Agronomy, 2017, 141, 53-114.	5.2	16
54	Quantification of the pore size distribution of soils: Assessment of existing software using tomographic and synthetic 3D images. Geoderma, 2017, 299, 73-82.	5.1	63

#	Article	IF	Citations
55	Microbial competition and evolution in natural porous environments: Not that simple. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E2802-E2803.	7.1	5
56	Accounting for sub-resolution pores in models of water and solute transport in soils based on computed tomography images: Are we there yet?. Journal of Hydrology, 2017, 555, 253-256.	5.4	23
57	Effect of farmland type on the transport and spatial distribution of metal(loid)s in agricultural lands near an abandoned gold mine site: Confirmation of previous observations. Journal of Geochemical Exploration, 2017, 181, 129-137.	3.2	14
58	Influence of Anionic Surfactant on Saturated Hydraulic Conductivity of Loamy Sand and Sandy Loam Soils. Water (Switzerland), 2017, 9, 433.	2.7	14
59	Movement of Cryptosporidium parvum Oocysts through Soils without Preferential Pathways: Exploratory Test. Frontiers in Environmental Science, 2017, 5, .	3.3	8
60	Soil â€œEcosystemâ€•Services and Natural Capital: Critical Appraisal of Research on Uncertain Ground. Frontiers in Environmental Science, 2016, 4, .	3.3	257
61	Ã‰loge de la MÃ©thode: A Tribute to Garrison Sposito on the Occasion of His Retirement. Frontiers in Environmental Science, 2016, 4, .	3.3	4
62	Modeling Soil Processes: Review, Key Challenges, and New Perspectives. Vadose Zone Journal, 2016, 15, 1-57.	2.2	445
63	Too much or not enough: Reflection on two contrasting perspectives on soil biodiversity. Soil Biology and Biochemistry, 2016, 103, 320-326.	8.8	27
64	How to get your research published: Complementary perspective. International Journal of Nursing Studies, 2016, 64, 96-97.	5.6	0
65	Effect of postmining land use on the spatial distribution of metal(loid)s and their transport in agricultural soils: Analysis of a case study of Chungyang, South Korea. Journal of Geochemical Exploration, 2016, 170, 157-166.	3.2	24
66	Comment on â€œPotential of integrated field spectroscopy and spatial analysis for enhanced assessment of soil contamination: A prospective reviewâ€•by Horta et al.. Geoderma, 2016, 271, 254-255.	5.1	2
67	Dissolution behavior of As and Cd in submerged paddy soil after treatment with stabilizing agents. Geoderma, 2016, 270, 10-20.	5.1	19
68	Effect of Industrial By-Products on Unconfined Compressive Strength of Solidified Organic Marine Clayey Soils. Materials, 2015, 8, 5098-5111.	2.9	9
69	Grand challenges in the research on soil processes. Frontiers in Environmental Science, 2015, 3, .	3.3	28
70	Looming Scarcity of Phosphate Rock and Intensification of Soil Phosphorus Research. Revista Brasileira De Ciencia Do Solo, 2015, 39, 637-642.	1.3	10
71	Microscale Heterogeneity Explains Experimental Variability and Non-Linearity in Soil Organic Matter Mineralisation. PLoS ONE, 2015, 10, e0123774.	2.5	62
72	Three-Dimensional Mapping of Soil Chemical Characteristics at Micrometric Scale by Combining 2D SEM-EDX Data and 3D X-Ray CT Images. PLoS ONE, 2015, 10, e0137205.	2.5	59

#	Article	IF	Citations
73	Three-dimensional distribution of water and air in soil pores: Comparison of two-phase two-relaxation-times lattice-Boltzmann and morphological model outputs with synchrotron X-ray computed tomography data. Advances in Water Resources, 2015, 84, 87-102.	3.8	65
74	Visible and near-infrared reflectance spectroscopy is of limited practical use to monitor soil contamination by heavy metals. Journal of Hazardous Materials, 2015, 285, 137-139.	12.4	23
75	pH-dependent reactive transport of uranium(VI) in unsaturated sand. Journal of Soils and Sediments, 2015, 15, 634-647.	3.0	23
76	Moving away from the geostatistical lamppost: Why, where, and how does the spatial heterogeneity of soils matter?. Ecological Modelling, 2015, 298, 24-38.	2.5	61
77	Potential health risk in areas with high naturally-occurring cadmium background in southwestern China. Ecotoxicology and Environmental Safety, 2015, 112, 122-131.	6.0	84
78	The Characterization of Pyrolysed Biomass Added to Soils Needs to Encompass Its Physical And Mechanical Properties. Soil Science Society of America Journal, 2014, 78, 2112-2113.	2.2	7
79	Perspectives from the Field: Ecological Economic Perspective in Environmental Practice: Much-Needed Common Sense amid Overwhelming Market Rhetoric. Environmental Practice, 2014, 16, 246-248.	0.3	5
80	Proposed Trade Agreements Would Make Policy Implications of Environmental Research Entirely Irrelevant. Environmental Science & Technology, 2014, 48, 1370-1371.	10.0	3
81	Learned publishing: who still has time to read?. Learned Publishing, 2014, 27, 48-51.	1.7	6
82	Research Efforts Involving Several Disciplines: Adherence to a Clear Nomenclature Is Needed. Water, Air, and Soil Pollution, 2014, 225, 1.	2.4	19
83	Addressing key challenges to interdisciplinary research on water-related issues: Biologistsâ€™ engagement and funding structure. Biologia (Poland), 2013, 68, 1087-1088.	1.5	9
84	Comment on â€œEcological engineers ahead of their time: The functioning of pre-Columbian raised-field agriculture and its potential contributions to sustainability todayâ€•by Dephine Renard et al.. Ecological Engineering, 2013, 52, 224-227.	3.6	11
85	Monetary valuation of ecosystem services: It matters to get the timeline right. Ecological Economics, 2013, 95, 231-235.	5.7	93
86	Effect of scanning and image reconstruction settings in X-ray computed microtomography on quality and segmentation of 3D soil images. Geoderma, 2013, 207-208, 154-165.	5.1	77
87	Comment on â€œAveraging theory for description of environmental problems: What have we learned?â€• by William G. Gray, Cass T. Miller, and Bernhard A. Schrefler. Advances in Water Resources, 2013, 52, 328-330.	3.8	10
88	Adaptive-window indicator kriging: A thresholding method for computed tomography images of porous media. Computers and Geosciences, 2013, 54, 239-248.	4.2	55
89	A Short Note on Pointless Reference Formatting. Journal of Scholarly Publishing, 2013, 44, 283-288.	0.6	2
90	Soil fungal dynamics: Parameterisation and sensitivity analysis of modelled physiological processes, soil architecture and carbon distribution. Ecological Modelling, 2013, 248, 165-173.	2.5	20

#	Article	IF	Citations
91	Monetary Valuation of Ecosystem Services. , 2013, , 73-77.		0
92	Jean-Baptiste De Beunie (1717â€“1793). Soil Science, 2013, 178, 55-59.	0.9	5
93	New Local Thresholding Method for Soil Images by Minimizing Grayscale Intraâ€Class Variance. Vadose Zone Journal, 2013, 12, 1-13.	2.2	44
94	Rapid Prototyping and 3â€D Printing of Experimental Equipment in Soil Science Research. Soil Science Society of America Journal, 2013, 77, 54-59.	2.2	12
95	Hydrology and the looming water crisis: It is time to think, and act, outside the box. Journal of Hydrology and Hydromechanics, 2013, 61, 89-96.	2.0	6
96	Wanted: a 'Reviewer Effectiveness Index'. Learned Publishing, 2012, 25, 232-234.	1.7	2
97	Emergent Behavior of Soil Fungal Dynamics. Soil Science, 2012, 177, 111-119.	0.9	61
98	Neurodegenerative diseases and exposure to the environmental metals Mn, Pb, and Hg. Coordination Chemistry Reviews, 2012, 256, 2147-2163.	18.8	78
99	Comment on â€œPhysicochemical controls on adsorbed water film thickness in unsaturated geological mediaâ€•by Tetsu K. Tokunaga. Water Resources Research, 2012, 48, .	4.2	5
100	Reply to Comment by Philippe Baveye on â€œPhysicochemical controls on adsorbed water film thickness in unsaturated geological mediaâ€• Water Resources Research, 2012, 48, .	4.2	8
101	Direct Simulation of Magnetic Resonance Relaxation Rates and Line Shapes from Molecular Trajectories. Journal of Physical Chemistry B, 2012, 116, 6233-6249.	2.6	9
102	Combining X-ray CT and 3D printing technology to produce microcosms with replicable, complex pore geometries. Soil Biology and Biochemistry, 2012, 51, 53-55.	8.8	67
103	Reflections while passing the baton: Hydrologistsâ€™ input is direly needed in ongoing environmental and food-security debates. Journal of Hydrology, 2012, 438-439, 1-2.	5.4	3
104	Automated statistical method to align 2D chemical maps with 3D X-ray computed micro-tomographic images of soils. Geoderma, 2011, 164, 146-154.	5.1	45
105	Hydropedology, biohydrology, and the compartmentalization of hydrology into sub-disciplines: Necessary evolution or dispersal of efforts?. Journal of Hydrology, 2011, 406, 137-140.	5.4	5
106	Peer reviewâ€”Beyond the call of duty?. International Journal of Nursing Studies, 2011, 48, 1-2.	5.6	3
107	Individual-based modelling of carbon and nitrogen dynamics in soils: Parameterization and sensitivity analysis of microbial components. Ecological Modelling, 2011, 222, 1998-2010.	2.5	30
108	From Dust Bowl to Dust Bowl: Soils are Still Very Much a Frontier of Science. Soil Science Society of America Journal, 2011, 75, 2037-2048.	2.2	79

#	Article	IF	Citations
109	Sticker Shock and Looming Tsunami. Journal of Scholarly Publishing, 2010, 41, 191-215.	0.6	17
110	The Discipline of Soil Science Is Not Doing Too Badlyâ€¦ Under Different Skies. Soil Science, 2010, 175, 313-314.	0.9	7
111	Individual-Based Modeling of Carbon and Nitrogen Dynamics in Soils. Soil Science, 2010, 175, 363-374.	0.9	25
112	Comment on â€œThe role of scaling laws in upscalingâ€•by B.D. Wood. Advances in Water Resources, 2010, 33, 123-124.	3.8	11
113	Use of textural measurements to map invasive wetland plants in the Hudson River National Estuarine Research Reserve with IKONOS satellite imagery. Remote Sensing of Environment, 2010, 114, 876-886.	11.0	66
114	How should we deal with the growing peer-review problem?. Biogeochemistry, 2010, 101, 1-3.	3.5	16
115	Surrogate Correlations and Near-Infrared Diffuse Reflectance Sensing of Trace Metal Content in Soils. Water, Air, and Soil Pollution, 2010, 209, 377-390.	2.4	30
116	Comment on â€œComparison of bioclogging effects in saturated porous media within one- and two-dimensional flow systemsâ€•by Martin Thullner. Ecological Engineering, 2010, 36, 835-836.	3.6	4
117	Sticker Shock and Looming Tsunami: The High Cost of Academic Serials in Perspective. Journal of Scholarly Publishing, 2010, 41, 191-215.	0.6	19
118	Brazilian soil science: from its inception to the future, and beyond. Revista Brasileira De Ciencia Do Solo, 2010, 34, 589-599.	1.3	9
119	Battling the Paper Glut. Science, 2010, 329, 1466-1466.	12.6	37
120	Observer-dependent variability of the thresholding step in the quantitative analysis of soil images and X-ray microtomography data. Geoderma, 2010, 157, 51-63.	5.1	151
121	Comment on â€œConservation of protists: Is it needed at all?â€•by Cotterill et al.. Biodiversity and Conservation, 2009, 18, 503-505.	2.6	5
122	To sequence or not to sequence the whole-soil metagenome?. Nature Reviews Microbiology, 2009, 7, 756-756.	28.6	33
123	Development of computer-assisted virtual field trips to support multidisciplinary learning. Computers and Education, 2009, 52, 571-580.	8.3	73
124	Comment on â€œA soil science renaissanceâ€•by A.E. Hartemink and A. McBratney. Geoderma, 2009, 151, 126-127.	5.1	4
125	Accounting for surface roughness effects in the near-infrared reflectance sensing of soils. Geoderma, 2009, 152, 171-180.	5.1	64
126	Influence of Ionic Strength, pH, and Cation Valence on Aggregation Kinetics of Titanium Dioxide Nanoparticles. Environmental Science & Technology, 2009, 43, 1354-1359.	10.0	691

#	Article	IF	Citations
127	Alleviating Moisture Content Effects on the Visible Near-Infrared Diffuse-Reflectance Sensing of Soils. Soil Science, 2009, 174, 456-465.	0.9	43
128	Computational pore network modeling of the influence of biofilm permeability on bioclogging in porous media. Biotechnology and Bioengineering, 2008, 99, 1337-1351.	3.3	97
129	Mapping invasive wetland plants in the Hudson River National Estuarine Research Reserve using quickbird satellite imagery. Remote Sensing of Environment, 2008, 112, 286-300.	11.0	107
130	Aggregation and Toxicology of Titanium Dioxide Nanoparticles. Environmental Health Perspectives, 2008, 116, A152; author reply A152-3.	6.0	59
131	Discussion of â€œSelf-Managed Learning Model for Civil Engineering Continuing Trainingâ€•by S. T. Muench. Journal of Professional Issues in Engineering Education and Practice, 2008, 134, 138-138.	0.9	0
132	Designing university courses to promote lifelong learning. International Journal of Innovation and Learning, 2008, 5, 378.	0.4	6
133	RESPONSE TO A COMMENT ON "WHITHER GOES SOIL SCIENCE IN THE UNITED STATES AND CANADA" BY A. HARTEMINK. Soil Science, 2007, 172, 168-171.	0.9	4
134	Influence of wavelet type on the classification of marsh vegetation from satellite imagery using a combination of wavelet texture and statistical component analyses. Canadian Journal of Remote Sensing, 2007, 33, 260-265.	2.4	5
135	Facilitated Transport of Diuron and Glyphosate in High Copper Vineyard Soils. Environmental Science & Technology, 2007, 41, 8056-8061.	10.0	32
136	Electron Microprobe and Synchrotron X-ray Fluorescence Mapping of the Heterogeneous Distribution of Copper in High-Copper Vineyard Soils. Environmental Science & Technology, 2007, 41, 6343-6349.	10.0	74
137	Comment on â€œSoil structure and management: A reviewâ€•by C.J. Bronick and R. Lal. Geoderma, 2006, 134, 231-232.	5.1	20
138	EPR monitoring of the bioavailability of an organic xenobiotic (4-hydroxy-TEMPO) in model clay suspensions and pastes. Environmental Pollution, 2006, 143, 73-80.	7.5	11
139	WHITHER GOES SOIL SCIENCE IN THE UNITED STATES AND CANADA?. Soil Science, 2006, 171, 501-518.	0.9	76
140	Causes of the apparent scale independence of fractal indices associated with forest fragmentation in Bolivia. ISPRS Journal of Photogrammetry and Remote Sensing, 2006, 61, 84-94.	11.1	11
141	Use of spatial SQL to assess the practical significance of the Modifiable Areal Unit Problem. Computers and Geosciences, 2006, 32, 270-274.	4.2	7
142	Discussion of â€œOptimal In Situ Bioremediation Design by Hybrid Genetic Algorithm-Simulated Annealingâ€•by Horng-Jer Shieh and Richard C. Peralta. Journal of Water Resources Planning and Management - ASCE, 2006, 132, 127-127.	2.6	0
143	ALLEVIATION OF AN INDETERMINACY PROBLEM AFFECTING TWO CLASSICAL ITERATIVE IMAGE THRESHOLDING ALGORITHMS. International Journal of Pattern Recognition and Artificial Intelligence, 2006, 20, 1-14.	1.2	3
144	Potential limitations for potato yields in raised soil field systems near Lake Titicaca. Scientia Agricola, 2006, 63, 444-452.	1.2	4

#	Article	IF	Citations
145	ELECTRON PARAMAGNETIC RESONANCE ANALYSIS OF THE DISTRIBUTION OF A HYDROPHOBIC SPIN PROBE IN SUSPENSIONS OF HUMIC ACIDS, HECTORITE, AND ALUMINUM HYDROXIDEâ€“HUMATEâ€“HECTORITE COMPLEXES. Environmental Toxicology and Chemistry, 2005, 24, 2435.	4.3	10
146	Environmental factors determining the trace-level sorption of silver and thallium to soils. Science of the Total Environment, 2005, 345, 191-205.	8.0	188
147	The desorption of silver and thallium from soils in the presence of a chelating resin with thiol functional groups. Water, Air, and Soil Pollution, 2005, 160, 41-54.	2.4	39
148	Reply to â€œComments on â€˜Poreâ€Scale Visualization of Colloid Transport and Retention in Partly Saturated Porous Mediaâ€™â€• Vadose Zone Journal, 2005, 4, 957-958.	2.2	13
149	Comment on â€œCharacterization of a reference site for quantifying uncertainties related to soil samplingâ€•by S. Barbizzi et al. (2004). Environmental Pollution, 2005, 135, 341-342.	7.5	1
150	Reduction of silver solubility by humic acid and thiol ligands during acanthite (Î²-Ag2S) dissolution. Environmental Pollution, 2005, 135, 1-9.	7.5	21
151	Diuron mobility through vineyard soils contaminated with copper. Environmental Pollution, 2005, 138, 250-259.	7.5	49
152	Poreâ€Scale Visualization of Colloid Transport and Retention in Partly Saturated Porous Media. Vadose Zone Journal, 2004, 3, 444-450.	2.2	85
153	Comment on â€œCritical Evaluation of Desorption Phenomena of Heavy Metals from Natural Sedimentsâ€• Environmental Science & Technology, 2004, 38, 4701-4702.	10.0	4
154	The emergence of a new kind of relativism in environmental modelling: a commentary. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2004, 460, 2141-2146.	2.1	6
155	Coprecipitation of trace metal ions during the synthesis of hectorite. Applied Clay Science, 2004, 27, 129-140.	5.2	13
156	Microbial acidification and pH effects on trace element release from sewage sludge. Environmental Pollution, 2004, 132, 61-71.	7.5	26
157	Preferential Flow and Transport of Cryptosporidium parvum Oocysts through the Vadose Zone: Experiments and Modeling. Vadose Zone Journal, 2004, 3, 262-270.	2.2	53
158	Pore-Scale Visualization of Colloid Transport and Retention in Partly Saturated Porous Media. Vadose Zone Journal, 2004, 3, 444-450.	2.2	43
159	Preferential Flow and Transport of Oocysts through the Vadose Zone. Vadose Zone Journal, 2004, 3, 262.	2.2	30
160	Effect of Microbial Activity on Trace Element Release from Sewage Sludge. Environmental Science & Technology, 2003, 37, 3361-3366.	10.0	36
161	Preferential Transport of Cryptosporidium parvum Oocysts in Variably Saturated Subsurface Environments. Water Environment Research, 2003, 75, 113-120.	2.7	43
162	Temperature and Microbial Activity Effects on Trace Element Leaching from Metalliferous Peats. Journal of Environmental Quality, 2003, 32, 2067-2075.	2.0	19

#	Article	IF	Citations
163	Effect of sampling volume on the measurement of soil physical properties: simulation with x-ray tomography data. Measurement Science and Technology, 2002, 13, 775-784.	2.6	67
164	Comment on â€œModeling soil variation: past, present and futureâ€•by G.B.M. Heuvelink and R. Webster. Geoderma, 2002, 109, 289-293.	5.1	6
165	Comment on â€œEvaluation of biofilm image thresholding methodsâ€• Water Research, 2002, 36, 805-806.	11.3	23
166	Fate of Environmental Pollutants. Water Environment Research, 2002, 74, 1412-1447.	2.7	0
167	Visualization and Measurement of Multiphase Flow in Porous Media Using Light Transmission and Synchrotron Xâ€Rays. Annals of the New York Academy of Sciences, 2002, 972, 103-110.	3.8	6
168	Research Needs to Improve the Understanding of Riverbank Filtration for Pathogenic Microorganism Removal. , 2002, , 311-319.		4
169	WIND VELOCITY TIME SERIES ANALYSIS. , 2002, , .		0
170	To create generalists, teach students how to learn by themselves. Nature, 2000, 404, 329-329.	27.8	0
171	Surface fractal characteristics of preferential flow patterns in field soils: evaluation and effect of image processing. Developments in Soil Science, 2000, 27, 19-46.	0.5	0
172	Use of EPR To Monitor the Distribution and Availability of Organic Xenobiotics in Model Soil Systems. Environmental Science & Technology, 2000, 34, 1259-1264.	10.0	15
173	Surface fractal characteristics of preferential flow patterns in field soils: evaluation and effect of image processing. Geoderma, 1999, 88, 109-136.	5.1	42
174	Mass balance and distribution of sludge-borne trace elements in a silt loam soil following long-term applications of sewage sludge. Science of the Total Environment, 1999, 227, 13-28.	8.0	68
175	Reply [to â€œComment on â€˜Dual-energy synchrotron X ray measurements of rapid soil density and water content changes in swelling soils during infiltrationâ€™ by Patricia Garnier et al.â€]. Water Resources Research, 1999, 35, 3589-3590.	4.2	2
176	Application of fractals to soil properties, landscape patterns, and solute transport in porous media. Geophysical Monograph Series, 1999, , 151-164.	0.1	9
177	Physical scales and spatial predictability of transport processes in the environment. Geophysical Monograph Series, 1999, , 261-280.	0.1	16
178	Transport of Organic Xenobiotics in the Environment. , 1999, , 381-405.		0
179	Heat and moisture dynamics in raised field systems of the lake Titicaca region (Bolivia). Agricultural and Forest Meteorology, 1998, 92, 251-265.	4.8	11
180	Environmental Impact and Mechanisms of the Biological Clogging of Saturated Soils and Aquifer Materials. Critical Reviews in Environmental Science and Technology, 1998, 28, 123-191.	12.8	397

#	Article	IF	Citations
181	Influence of image resolution and thresholding on the apparent mass fractal characteristics of preferential flow patterns in field soils. Water Resources Research, 1998, 34, 2783-2796.	4.2	102
182	Dual-energy synchrotron X ray measurements of rapid soil density and water content changes in swelling soils during infiltration. Water Resources Research, 1998, 34, 2837-2842.	4.2	24
183	Concepts of â€œfractalsâ€•in soil science: demixing apples and oranges. Soil Science Society of America Journal, 1998, 62, 1469-1470.	2.2	23
184	COMMENTS ON "EXPERIMENTAL STUDY ON THE REDUCTION OF SOIL HYDRAULIC CONDUCTIVITY BY ENHANCED BIOMASS GROWTH" BY WU ET AL.. Soil Science, 1998, 163, 759-761.	0.9	5
185	Factors affecting protozoan predation of bacteria clogging laboratory aquifer microcosms. Geomicrobiology Journal, 1997, 14, 127-149.	2.0	51
186	Use of confocal laser scanning microscopy on soil thin-sections for improved characterization of microbial growth in unconsolidated soils and aquifer materials. Journal of Microbiological Methods, 1997, 30, 193-203.	1.6	28
187	Effect of Cation Exchange Hysteresis on a Mixing Procedure Used in the Study of Clay Suspensions. Clays and Clay Minerals, 1995, 43, 637-640.	1.3	7
188	Cation-Exchange Hysteresis and Dynamics of Formation and Breakdown of Montmorillonite Quasi-Crystals. Soil Science Society of America Journal, 1995, 59, 1268-1273.	2.2	14
189	Microbial Clogging of Saturated Soils and Aquifer Materials: Evaluation of Mathematical Models. Water Resources Research, 1995, 31, 2173-2180.	4.2	119
190	Hysteresis in the Binary Exchange of Cations on 2:1 Clay Minerals: A Critical Review. Clays and Clay Minerals, 1994, 42, 207-220.	1.3	95
191	SAMPLING METHOD FOR THE OBSERVATION OF MICROORGANISMS IN UNCONSOLIDATED POROUS MEDIA VIA SCANNING ELECTRON MICROSCOPY. Soil Science, 1992, 153, 482-485.	0.9	24
192	Saturated Hydraulic Conductivity Reduction Caused by Aerobic Bacteria in Sand Columns. Soil Science Society of America Journal, 1992, 56, 1-13.	2.2	240
193	Comment on â€œBiofilm growth and the related changes in the physical properties of a porous medium: 1, Experimental investigationâ€•by S. W. Taylor and P. R. JaffÃ©. Water Resources Research, 1992, 28, 1481-1482.	4.2	18
194	Operational Aspects of the Mechanics of Deforming Porous Media: Theory and Application to Expansive Soils. , 1992, , 79-96.		1
195	Relationship between Transport of Bacteria and Their Clogging Efficiency in Sand Columns. Applied and Environmental Microbiology, 1992, 58, 2523-2530.	3.1	91
196	Reply [to â€œComment on â€˜An evaluation of mathematical models of the transport of biologically reacting solutes in saturated soils and aquifersâ€™ by Philippe Baveye and Albert Valocchiâ€]. Water Resources Research, 1991, 27, 1379-1380.	4.2	13
197	The effect of water movement on the transport of dicyandiamide, ammonium and urea in unsaturated soils. Zeitschrift Fur Pflanzenernahrung Und Bodenkunde = Journal of Plant Nutrition and Plant Science, 1990, 153, 245-247.	0.4	9
198	Solution of the flow at a corner problem with a stagnation zone. Water Resources Research, 1989, 25, 757-763.	4.2	8

#	Article	IF	Citations
199	An evaluation of mathematical models of the transport of biologically reacting solutes in saturated soils and aquifers. Water Resources Research, 1989, 25, 1413-1421.	4.2	175
200	Use of Referential Coordinates in Deforming Soils. Soil Science Society of America Journal, 1989, 53, 1338-1343.	2.2	4
201	Macroscopic Balance Equations in Soils and Aquifers: The Case of Spaceâ€•and Timeâ€Ðependent Instrumental Response. Water Resources Research, 1985, 21, 1116-1120.	4.2	30
202	Reply [to â€œComment on â€˜The Operational Significance of the Continuum Hypothesis in the Theory of Water Movement Through Soils and Aquifersâ€™ by P. Baveye and G. Spositoâ€¦. Water Resources Research, 1985, 21, 1295-1296.	4.2	2
203	The Operational Significance of the Continuum Hypothesis in the Theory of Water Movement Through Soils and Aquifers. Water Resources Research, 1984, 20, 521-530.	4.2	192
204	Discussion of â€œ Volumeâ€Accuracy Relationship in Soil Moisture Sampling â€•by Mark. E. Hawley, Richard H. McCuen, and Thomas J. Jackson (March, 1982). Journal of Irrigation and Drainage Engineering - ASCE, 1983, 109, 287-289.	1.0	0
205	â€œDataâ€drivenâ€•versus â€œquestionâ€drivenâ€•soil research. European Journal of Soil Science, 0, , .	3.9	0
206	Putting things in perspective. Spanish Journal of Soil Science, 0, 6, .	0.0	1