

Patricia Culligan

List of Publications by Year in descending order

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75
papers

3,090
citations

147801

31
h-index

161849

54
g-index

79
all docs

79
docs citations

79
times ranked

3860
citing authors

#	ARTICLE	IF	CITATIONS
1	Forecasting energy consumption of multi-family residential buildings using support vector regression: Investigating the impact of temporal and spatial monitoring granularity on performance accuracy. <i>Applied Energy</i> , 2014, 123, 168-178.	10.1	467
2	Meta-principles for developing smart, sustainable, and healthy cities. <i>Science</i> , 2016, 352, 940-943.	12.6	267
3	Nanoscale Fluid Transport: Size and Rate Effects. <i>Nano Letters</i> , 2008, 8, 2988-2992.	9.1	225
4	Comparison of fecal indicators with pathogenic bacteria and rotavirus in groundwater. <i>Science of the Total Environment</i> , 2012, 431, 314-322.	8.0	122
5	Can social influence drive energy savings? Detecting the impact of social influence on the energy consumption behavior of networked users exposed to normative eco-feedback. <i>Energy and Buildings</i> , 2013, 66, 119-127.	6.7	96
6	Investigating the impact eco-feedback information representation has on building occupant energy consumption behavior and savings. <i>Energy and Buildings</i> , 2013, 64, 408-414.	6.7	95
7	Scale dynamics of extensive green roofs: Quantifying the effect of drainage area and rainfall characteristics on observed and modeled green roof hydrologic performance. <i>Ecological Engineering</i> , 2014, 73, 494-508.	3.6	92
8	Real values of the W -function. <i>ACM Transactions on Mathematical Software</i> , 1995, 21, 161-171.	2.9	90
9	Fecal Contamination of Shallow Tubewells in Bangladesh Inversely Related to Arsenic. <i>Environmental Science & Technology</i> , 2011, 45, 1199-1205.	10.0	74
10	Visualization of particle behavior within a porous medium: Mechanisms for particle filtration and retardation during downward transport. <i>Water Resources Research</i> , 2006, 42, .	4.2	73
11	Mass transfer in soils with local stratification of hydraulic conductivity. <i>Water Resources Research</i> , 1994, 30, 2891-2900.	4.2	68
12	Temporal discretisation errors in non-iterative split-operator approaches to solving chemical reaction/groundwater transport models. <i>Journal of Contaminant Hydrology</i> , 1996, 22, 1-17.	3.3	66
13	Bridging barriers to advance global sustainability. <i>Nature Sustainability</i> , 2018, 1, 324-326.	23.7	64
14	The impact of place-based affiliation networks on energy conservation: An holistic model that integrates the influence of buildings, residents and the neighborhood context. <i>Energy and Buildings</i> , 2012, 55, 637-646.	6.7	63
15	Energy Saving Alignment Strategy: Achieving energy efficiency in urban buildings by matching occupant temperature preferences with a building's indoor thermal environment. <i>Applied Energy</i> , 2014, 123, 209-219.	10.1	54
16	Short-term apartment-level load forecasting using a modified neural network with selected auto-regressive features. <i>Applied Energy</i> , 2021, 287, 116509.	10.1	53
17	Analysis of split operator methods for nonlinear and multispecies groundwater chemical transport models. <i>Mathematics and Computers in Simulation</i> , 1997, 43, 331-341.	4.4	45
18	Evaluation of common evapotranspiration models based on measurements from two extensive green roofs in New York City. <i>Ecological Engineering</i> , 2015, 84, 451-462.	3.6	45

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19	Mechanisms of water infiltration into conical hydrophobic nanopores. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 6520.	2.8	43
20	Unsealed tubewells lead to increased fecal contamination of drinking water. <i>Journal of Water and Health</i> , 2012, 10, 565-578.	2.6	43
21	Assessing methods for predicting green roof rainfall capture: A comparison between full-scale observations and four hydrologic models. <i>Urban Water Journal</i> , 2017, 14, 589-603.	2.1	43
22	Implications of Fecal Bacteria Input from Latrine-Polluted Ponds for Wells in Sandy Aquifers. <i>Environmental Science & Technology</i> , 2012, 46, 1361-1370.	10.0	42
23	Quantifying Evapotranspiration from Urban Green Roofs: A Comparison of Chamber Measurements with Commonly Used Predictive Methods. <i>Environmental Science & Technology</i> , 2014, 48, 10273-10281.	10.0	42
24	Citizen science-based water quality monitoring: Constructing a large database to characterize the impacts of combined sewer overflow in New York City. <i>Science of the Total Environment</i> , 2017, 580, 168-177.	8.0	39
25	Identifying linkages between urban green infrastructure and ecosystem services using an expert opinion methodology. <i>Ambio</i> , 2020, 49, 569-583.	5.5	38
26	Experimental Study on Energy Dissipation of Electrolytes in Nanopores. <i>Langmuir</i> , 2009, 25, 12687-12696.	3.5	37
27	Hand-pumps as reservoirs for microbial contamination of well water. <i>Journal of Water and Health</i> , 2011, 9, 708-717.	2.6	37
28	Accelerated physical modelling of hazardous-waste transport. <i>Geotechnique</i> , 1991, 41, 447-466.	4.0	32
29	Centrifuge modeling of air sparging – a study of air flow through saturated porous media. <i>Journal of Hazardous Materials</i> , 2000, 72, 179-215.	12.4	32
30	Sorptivity and liquid infiltration into dry soil. <i>Advances in Water Resources</i> , 2005, 28, 1010-1020.	3.8	32
31	Increase in Diarrheal Disease Associated with Arsenic Mitigation in Bangladesh. <i>PLoS ONE</i> , 2011, 6, e29593.	2.5	30
32	Thermally Responsive Fluid Behaviors in Hydrophobic Nanopores. <i>Langmuir</i> , 2009, 25, 11862-11868.	3.5	29
33	Stormwater performance of a full scale rooftop farm: Runoff water quality. <i>Ecological Engineering</i> , 2016, 91, 195-206.	3.6	29
34	Infiltration with controlled air escape. <i>Water Resources Research</i> , 2000, 36, 781-785.	4.2	27
35	Thermal effect on the dynamic infiltration of water into single-walled carbon nanotubes. <i>Physical Review E</i> , 2009, 80, 061206.	2.1	27
36	Illuminating reactive microbial transport in saturated porous media: Demonstration of a visualization method and conceptual transport model. <i>Journal of Contaminant Hydrology</i> , 2005, 77, 233-245.	3.3	25

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37	Design and Modeling of an Adaptively Controlled Rainwater Harvesting System. <i>Water (Switzerland)</i> , 2017, 9, 974.	2.7	25
38	Stormwater infiltration capacity of street tree pits: Quantifying the influence of different design and management strategies in New York City. <i>Ecological Engineering</i> , 2018, 111, 157-166.	3.6	22
39	Electrolyte solution transport in electropolar nanotubes. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 315301.	1.8	20
40	The Soil Water Apportioning Method (SWAM): An approach for long-term, low-cost monitoring of green roof hydrologic performance. <i>Ecological Engineering</i> , 2016, 93, 207-220.	3.6	20
41	Transport of <i>E. coli</i> in aquifer sediments of Bangladesh: Implications for widespread microbial contamination of groundwater. <i>Water Resources Research</i> , 2013, 49, 3897-3911.	4.2	19
42	Impacts of COVID-19 related stay-at-home restrictions on residential electricity use and implications for future grid stability. <i>Energy and Buildings</i> , 2021, 251, 111330.	6.7	19
43	Data-Enabled Building Energy Savings (D-E BES). <i>Proceedings of the IEEE</i> , 2018, 106, 661-679.	21.3	15
44	More than nature: Linkages between well-being and greenspace influenced by a combination of elements of nature and non-nature in a New York City urban park. <i>Urban Forestry and Urban Greening</i> , 2021, 61, 127081.	5.3	14
45	MFRED, 10 th second interval real and reactive power for groups of 390 US apartments of varying size and vintage. <i>Scientific Data</i> , 2020, 7, 375.	5.3	13
46	Plant Spike: A Low-Cost, Low-Power Beacon for Smart City Soil Health Monitoring. <i>IEEE Internet of Things Journal</i> , 2020, 7, 9080-9090.	8.7	12
47	Use of the geotechnical centrifuge as a tool to model dense nonaqueous phase liquid migration in fractures. <i>Water Resources Research</i> , 2002, 38, 34-1-34-12.	4.2	11
48	Green infrastructure and urban sustainability: A discussion of recent advances and future challenges based on multiyear observations in New York City. <i>Science and Technology for the Built Environment</i> , 2019, 25, 1113-1120.	1.7	11
49	Use of NMR relaxation times to differentiate mobile and immobile pore fractions in a wetland soil. <i>Water Resources Research</i> , 2001, 37, 837-842.	4.2	9
50	Comment on "Cavitation during desaturation of porous media under tension" by Dani Or and Markus Tuller. <i>Water Resources Research</i> , 2003, 39, .	4.2	9
51	Confined Liquid Flow in Nanotube: A Numerical Study and Implications for Energy Absorption. <i>Journal of Computational and Theoretical Nanoscience</i> , 2010, 7, 379-387.	0.4	9
52	Studying the effect of bioswales on nutrient pollution in urban combined sewer systems. <i>Science of the Total Environment</i> , 2019, 665, 944-958.	8.0	9
53	Preferential Flow of a Nonaqueous Phase Liquid in Dry Sand. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2002, 128, 327-337.	3.0	8
54	Urban policy adaptation toward managing increasing pluvial flooding events under climate change. <i>Journal of Environmental Planning and Management</i> , 2021, 64, 1408-1427.	4.5	7

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55	Effective Stress and Shear Strength of Moist Uniform Spheres. <i>Vadose Zone Journal</i> , 2014, 13, 1-13.	2.2	6
56	Quantifying Urban Bioswale Nitrogen Cycling in the Soil, Gas, and Plant Phases. <i>Water (Switzerland)</i> , 2018, 10, 1627.	2.7	6
57	Modelling of DNAPL behavior in vertical fractures. <i>International Journal of Physical Modelling in Geotechnics</i> , 2003, 3, 01-18.	0.6	5
58	Intrinsic Sorptivity and Water Infiltration into Dry Soil at Different Degrees of Saturation. , 2007, , .		5
59	Observations of the seasonal buildup and washout of salts in urban bioswale soil. <i>Science of the Total Environment</i> , 2020, 722, 137834.	8.0	5
60	Residential electricity conservation in response to auto-generated, multi-featured, personalized eco-feedback designed for large scale applications with utilities. <i>Energy and Buildings</i> , 2021, 232, 110652.	6.7	5
61	Comparing the hydrological performance of an irrigated native vegetation green roof with a conventional <i>Sedum</i> spp. green roof in New York City. <i>PLoS ONE</i> , 2022, 17, e0266593.	2.5	5
62	Can varying velocity conditions be one possible explanation for differences between laboratory and field observations of bacterial transport in porous media?. <i>Advances in Water Resources</i> , 2016, 88, 97-108.	3.8	4
63	Non-aqueous phase liquid behavior in the subsurface. , 2006, , .		4
64	An Optical Soil Sensor for NPK Nutrient Detection in Smart Cities. , 2022, , .		4
65	Spinning Drop Tensiometry Using a Square Section Sample Tube. <i>Journal of Colloid and Interface Science</i> , 2001, 234, 442-444.	9.4	3
66	The Role of Geotechnics in Addressing New World Problems. <i>Springer Series in Geomechanics and Geoengineering</i> , 2019, , 1-27.	0.1	3
67	Urban Pluvial Flood Management Part 2: Global Perceptions and Priorities in Urban Stormwater Adaptation Management and Policy Alternatives. <i>Water (Switzerland)</i> , 2021, 13, 2433.	2.7	3
68	Testing of Intrinsic Sorptivity for Liquid Infiltration into Initially Dry, Millerâ€™s Similar Silica Sands. <i>Vadose Zone Journal</i> , 2009, 8, 462-469.	2.2	2
69	A new technique for rapid measurement of continuous soil moisture characteristic curves. <i>Geotechnique</i> , 2004, 54, 179-186.	4.0	2
70	Understanding Two-Phase Transport in Porous Media: What Challenges Still Remain?. , 2008, , .		1
71	Intrinsic Sorptivity for Soils with Different Average Grain Size Diameters. , 2008, , .		1
72	An approximate solution to contaminant transport by parabolic isochrones. <i>Geotechnique</i> , 1990, 40, 285-291.	4.0	0

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73	Design of an Instrumented Model Green Roof Experiment. , 2008, , .		0
74	Method for Visualizing Coupled Particle and Fluid Transport in Porous Media. , 2008, , .		0
75	A LoRaWAN-Based Environmental Sensor System for Urban Tree Health Monitoring. , 2021, , .		0