

# Amir Pouyan Nejadhashemi

## List of Publications by Year in descending order

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105  
papers

3,275  
citations

218677

26  
h-index

175258

52  
g-index

105  
all docs

105  
docs citations

105  
times ranked

3828  
citing authors

#	ARTICLE	IF	CITATIONS
1	Benefits of sparse population sampling in multi-objective evolutionary computing for large-Scale sparse optimization problems. <i>Swarm and Evolutionary Computation</i> , 2022, 69, 101025.	8.1	15
2	An improved calibration technique to address high dimensionality and non-linearity in integrated groundwater and surface water models. <i>Environmental Modelling and Software</i> , 2022, 149, 105312.	4.5	9
3	Connecting microbial, nutrient, physiochemical, and land use variables for the evaluation of water quality within mixed use watersheds. <i>Water Research</i> , 2022, 219, 118526.	11.3	12
4	Agricultural Innovization: An Optimization-Driven solution for sustainable agricultural intensification in Michigan. <i>Computers and Electronics in Agriculture</i> , 2022, 199, 107143.	7.7	3
5	Would Forest Regrowth Compensate for Climate Change in the Amazon Basin?. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 7052.	2.5	4
6	Opportunities and Challenges of Integrated Large-Scale PFAS Modeling: A Case Study for PFAS Modeling at a Watershed Scale. <i>Journal of Environmental Engineering, ASCE</i> , 2022, 148, .	1.4	5
7	Overview of Modeling, Applications, and Knowledge Gaps for Integrated Large-Scale PFAS Modeling. <i>Journal of Environmental Engineering, ASCE</i> , 2022, 148, .	1.4	2
8	Evaluating the applicability of soil moisture-based metrics for gauging the resiliency of rainfed agricultural systems in the midwestern United States. <i>Soil and Tillage Research</i> , 2021, 205, 104818.	5.6	10
9	Multidimensional Aspects of Sustainable Biofuel Feedstock Production. <i>Sustainability</i> , 2021, 13, 1424.	3.2	7
10	Evaluating the climate resilience in terms of profitability and risk for a long-term corn-soybean-wheat rotation under different treatment systems. <i>Climate Risk Management</i> , 2021, 32, 100284.	3.2	8
11	Quantification of resilience metrics as affected by conservation agriculture at a watershed scale. <i>Agriculture, Ecosystems and Environment</i> , 2021, 320, 107612.	5.3	10
12	A novel multi-objective model calibration method for ecohydrological applications. <i>Environmental Modelling and Software</i> , 2021, 144, 105161.	4.5	8
13	Reducing deep learning network structure through variable reduction methods in crop modeling. <i>Artificial Intelligence in Agriculture</i> , 2021, 5, 196-207.	6.0	4
14	Artificial intelligence models for suspended river sediment prediction: state-of-the art, modeling framework appraisal, and proposed future research directions. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021, 15, 1585-1612.	3.1	21
15	Harnessing Machine Learning Techniques for Mapping Aquaculture Waterbodies in Bangladesh. <i>Remote Sensing</i> , 2021, 13, 4890.	4.0	7
16	Quantitative model of irrigation effect on maize yield by deep neural network. <i>Neural Computing and Applications</i> , 2020, 32, 10679-10692.	5.6	7
17	An investigation of spatial and temporal drinking water quality variation in green residential plumbing. <i>Building and Environment</i> , 2020, 169, 106566.	6.9	46
18	Modeling the persistence of viruses in untreated groundwater. <i>Science of the Total Environment</i> , 2020, 717, 134599.	8.0	7

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19	Impacts of Municipal Waterâ€“Rainwater Source Transitions on Microbial and Chemical Water Quality Dynamics at the Tap. <i>Environmental Science &amp; Technology</i> , 2020, 54, 11453-11463.	10.0	9
20	Drinking water microbiology in a water-efficient building: stagnation, seasonality, and physicochemical effects on opportunistic pathogen and total bacteria proliferation. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 2902-2913.	2.4	40
21	Analyzing the Variability of Remote Sensing and Hydrologic Model Evapotranspiration Products in a Watershed in Michigan. <i>Journal of the American Water Resources Association</i> , 2020, 56, 738-755.	2.4	1
22	Perspectives on Global Water Security. <i>Transactions of the ASABE</i> , 2020, 63, 69-80.	1.1	13
23	Developing a Risk-Based Consensus-Based Decision-Support System Model for Selection of the Desirable Urban Water Strategy: Kashafroud Watershed Study. <i>Water (Switzerland)</i> , 2020, 12, 1305.	2.7	4
24	Multi-site watershed model calibration for evaluating best management practice effectiveness in reducing fecal pollution. <i>Human and Ecological Risk Assessment (HERA)</i> , 2020, 26, 2690-2715.	3.4	3
25	Evaluation of Multi- and Many-Objective Optimization Techniques to Improve the Performance of a Hydrologic Model Using Evapotranspiration Remote-Sensing Data. <i>Journal of Hydrologic Engineering - ASCE</i> , 2020, 25, .	1.9	13
26	Crop yield simulation optimization using precision irrigation and subsurface water retention technology. <i>Environmental Modelling and Software</i> , 2019, 119, 433-444.	4.5	28
27	Land-Based Wastewater Treatment System Modeling Using HYDRUS CW2D to Simulate the Fate, Transport, and Transformation of Soil Contaminants. <i>Journal of Sustainable Water in the Built Environment</i> , 2019, 5, .	1.6	6
28	Multi-Scale Assessment of Relationships between Fragmentation of Riparian Forests and Biological Conditions in Streams. <i>Sustainability</i> , 2019, 11, 5060.	3.2	9
29	Relationships between Riparian Forest Fragmentation and Biological Indicators of Streams. <i>Sustainability</i> , 2019, 11, 2870.	3.2	21
30	Computational modeling of wastewater land application treatment systems to determine strategies to improve carbon and nitrogen removal. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2019, 54, 657-667.	1.7	2
31	A multi-objective approach to water and nutrient efficiency for sustainable agricultural intensification. <i>Agricultural Systems</i> , 2019, 173, 289-302.	6.1	41
32	Simulation Optimization of Water Usage and Crop Yield Using Precision Irrigation. <i>Lecture Notes in Computer Science</i> , 2019, , 695-706.	1.3	2
33	Evaluation of neuro-fuzzy and Bayesian techniques in estimating suspended sediment loads. <i>Sustainable Water Resources Management</i> , 2019, 5, 639-654.	2.1	10
34	Selection of the Best Water Supply Scenario for Urban Demand Based on the Risk Analysis in Decision-Making Model. <i>Green Energy and Technology</i> , 2019, , 942-947.	0.6	0
35	Pasture diversification to combat climate change impacts on grazing dairy production. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2018, 23, 405-431.	2.1	8
36	Case study: Fixture water use and drinking water quality in a new residential green building. <i>Chemosphere</i> , 2018, 195, 80-89.	8.2	46

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37	Evaluating the role of evapotranspiration remote sensing data in improving hydrological modeling predictability. <i>Journal of Hydrology</i> , 2018, 556, 39-49.	5.4	104
38	Food Footprint as a Measure of Sustainability for Grazing Dairy Farms. <i>Environmental Management</i> , 2018, 62, 1073-1088.	2.7	7
39	Evaluation of the effectiveness of conservation practices under implementation site uncertainty. <i>Journal of Environmental Management</i> , 2018, 228, 197-204.	7.8	5
40	Evaluation of the impacts of hydrologic model calibration methods on predictability of ecologically-relevant hydrologic indices. <i>Journal of Hydrology</i> , 2018, 564, 758-772.	5.4	10
41	A review of macroinvertebrate and fish based stream health modelling techniques. <i>Ecohydrology</i> , 2018, 11, e2022.	2.4	14
42	Assessing the relative importance of parameter estimation in stream health based environmental justice modeling. <i>Journal of Hydrology</i> , 2018, 563, 211-222.	5.4	1
43	Applications of computational fluid dynamics in fish and habitat studies. <i>Ecohydrology and Hydrobiology</i> , 2017, 17, 53-62.	2.3	8
44	Climate change and livestock: Impacts, adaptation, and mitigation. <i>Climate Risk Management</i> , 2017, 16, 145-163.	3.2	775
45	Evaluating the significance of wetland restoration scenarios on phosphorus removal. <i>Journal of Environmental Management</i> , 2017, 192, 184-196.	7.8	22
46	Resource use and economic impacts in the transition from small confinement to pasture-based dairies. <i>Agricultural Systems</i> , 2017, 153, 157-171.	6.1	9
47	Response of benthic macroinvertebrate communities to climate change. <i>Ecohydrology and Hydrobiology</i> , 2017, 17, 63-72.	2.3	11
48	Reducing current and future risks: Using climate change scenarios to test an agricultural conservation framework. <i>Journal of Great Lakes Research</i> , 2017, 43, 59-68.	1.9	12
49	Evaluation of wetland implementation strategies on phosphorus reduction at a watershed scale. <i>Journal of Hydrology</i> , 2017, 552, 105-120.	5.4	10
50	Development and evaluation of a comprehensive drought index. <i>Journal of Environmental Management</i> , 2017, 185, 31-43.	7.8	90
51	Multiscale Assessment of the Impacts of Climate Change on Water Resources in Tanzania. <i>Journal of Hydrologic Engineering - ASCE</i> , 2017, 22, .	1.9	16
52	Food System Resilience and Sustainability in Cambodia. <i>International Journal of Applied Geospatial Research</i> , 2017, 8, 53-75.	0.3	1
53	Bayesian Regression and Neuro-Fuzzy Methods Reliability Assessment for Estimating Streamflow. <i>Water (Switzerland)</i> , 2016, 8, 287.	2.7	12
54	Climate Change: A Call for Adaptation and Mitigation Strategies. <i>Transactions of the ASABE</i> , 2016, 59, 1709-1713.	1.1	9

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55	How much conservation is enough? Defining implementation goals for healthy fish communities in agricultural rivers. <i>Journal of Great Lakes Research</i> , 2016, 42, 1302-1321.	1.9	28
56	Evaluating stream health based environmental justice model performance at different spatial scales. <i>Journal of Hydrology</i> , 2016, 538, 500-514.	5.4	10
57	Defining drought in the context of stream health. <i>Ecological Engineering</i> , 2016, 94, 668-681.	3.6	11
58	Regulators' and stakeholders' perspectives in a framework for bioenergy development. <i>Land Use Policy</i> , 2016, 59, 143-153.	5.6	14
59	Large-scale climate change vulnerability assessment of stream health. <i>Ecological Indicators</i> , 2016, 69, 578-594.	6.3	43
60	Optimization of bioenergy crop selection and placement based on a stream health indicator using an evolutionary algorithm. <i>Journal of Environmental Management</i> , 2016, 181, 413-424.	7.8	13
61	Impacts of Climate Change on Water Resources in Malawi. <i>Journal of Hydrologic Engineering - ASCE</i> , 2016, 21, .	1.9	18
62	Two-phase approach to improve stream health modeling. <i>Ecological Informatics</i> , 2016, 34, 13-21.	5.2	10
63	MATLAB Hydrological Index Tool (MHIT): A high performance library to calculate 171 ecologically relevant hydrological indices. <i>Ecological Informatics</i> , 2016, 33, 17-23.	5.2	9
64	Application of risk-based multiple criteria decision analysis for selection of the best agricultural scenario for effective watershed management. <i>Journal of Environmental Management</i> , 2016, 168, 260-272.	7.8	27
65	Ecohydrological modeling for large-scale environmental impact assessment. <i>Science of the Total Environment</i> , 2016, 543, 274-286.	8.0	26
66	Climate change and eastern Africa: a review of impact on major crops. <i>Food and Energy Security</i> , 2015, 4, 110-132.	4.3	360
67	An integrated approach involving EMO and HYDRUS-2D software for SWRT-based precision irrigation. , 2015, , .		1
68	A Review of Climate Change Impacts on Water Resources in East Africa. <i>Transactions of the ASABE</i> , 2015, 58, 1493-1507.	1.1	13
69	Linking watershed-scale stream health and socioeconomic indicators with spatial clustering and structural equation modeling. <i>Environmental Modelling and Software</i> , 2015, 70, 113-127.	4.5	23
70	Ecohydrological model parameter selection for stream health evaluation. <i>Science of the Total Environment</i> , 2015, 511, 341-353.	8.0	29
71	Assessing the significance of wetland restoration scenarios on sediment mitigation plan. <i>Ecological Engineering</i> , 2015, 77, 103-113.	3.6	18
72	Climate change and irrigation demand: Uncertainty and adaptation. <i>Journal of Hydrology: Regional Studies</i> , 2015, 3, 247-264.	2.4	65

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73	Integrating statistical and hydrological models to identify implementation sites for agricultural conservation practices. <i>Environmental Modelling and Software</i> , 2015, 72, 327-340.	4.5	16
74	A review of macroinvertebrate- and fish-based stream health indices. <i>Ecohydrology and Hydrobiology</i> , 2015, 15, 53-67.	2.3	81
75	Optimization of conservation practice implementation strategies in the context of stream health. <i>Ecological Engineering</i> , 2015, 84, 1-12.	3.6	27
76	Assessing uncertainty in best management practice effectiveness under future climate scenarios. <i>Hydrological Processes</i> , 2014, 28, 2550-2566.	2.6	28
77	Application of analytical hierarchy process for effective selection of agricultural best management practices. <i>Journal of Environmental Management</i> , 2014, 132, 165-177.	7.8	34
78	Modeling <i>Escherichia coli</i> removal in constructed wetlands under pulse loading. <i>Water Research</i> , 2014, 50, 441-454.	11.3	12
79	Analysis of best management practice effectiveness and spatiotemporal variability based on different targeting strategies. <i>Hydrological Processes</i> , 2014, 28, 431-445.	2.6	54
80	Modeling the hydrological significance of wetland restoration scenarios. <i>Journal of Environmental Management</i> , 2014, 133, 121-134.	7.8	61
81	Development of a socio-ecological environmental justice model for watershed-based management. <i>Journal of Hydrology</i> , 2014, 518, 162-177.	5.4	29
82	Linking Biological Integrity and Watershed Models to Assess the Impacts of Historical Land Use and Climate Changes on Stream Health. <i>Environmental Management</i> , 2013, 51, 1147-1163.	2.7	34
83	Spatial and Temporal Variabilities of Sediment Delivery Ratio. <i>Water Resources Management</i> , 2013, 27, 2483-2499.	3.9	25
84	Evaluating the impact of field-scale management strategies on sediment transport to the watershed outlet. <i>Journal of Environmental Management</i> , 2013, 128, 735-748.	7.8	16
85	Simulating stream health sensitivity to landscape changes due to bioenergy crops expansion. <i>Biomass and Bioenergy</i> , 2013, 58, 198-209.	5.7	21
86	Optimal water allocation in irrigation networks based on real time climatic data. <i>Agricultural Water Management</i> , 2013, 117, 1-8.	5.6	32
87	Evaluating the capabilities of watershed-scale models in estimating sediment yield at field-scale. <i>Journal of Environmental Management</i> , 2013, 127, 228-236.	7.8	24
88	Cropland management versus dredging: An economic analysis of reservoir sediment management. <i>Lake and Reservoir Management</i> , 2013, 29, 151-164.	1.3	15
89	Application of Fuzzy Logic Techniques in Estimating the Regional Index Flow for Michigan. <i>Transactions of the ASABE</i> , 2013, 56, 103-115.	1.1	11
90	Modeling the effects of conservation practices on stream health. <i>Science of the Total Environment</i> , 2012, 435-436, 380-391.	8.0	45

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91	Large-Scale Hydrologic Modeling of the Michigan and Wisconsin Agricultural Regions to Study Impacts of Land Use Changes. Transactions of the ASABE, 2012, 55, 821-838.	1.1	21
92	Sensitivity Analysis of Best Management Practices Under Climate Change Scenarios <sup>1</sup> . Journal of the American Water Resources Association, 2012, 48, 90-112.	2.4	40
93	Evaluation of targeting methods for implementation of best management practices in the Saginaw River Watershed. Journal of Environmental Management, 2012, 103, 24-40.	7.8	108
94	Comparison of Four Models (STEPL, PLOAD, L-THIA, and SWAT) in Simulating Sediment, Nitrogen, and Phosphorus Loads and Pollutant Source Areas. Transactions of the ASABE, 2011, 54, 875-890.	1.1	23
95	Assessing Best Management Practice Implementation Strategies under Climate Change Scenarios. Transactions of the ASABE, 2011, 54, 171-190.	1.1	45
96	Effects on aquatic and human health due to large scale bioenergy crop expansion. Science of the Total Environment, 2011, 409, 3215-3229.	8.0	43
97	Water quality impact assessment of large-scale biofuel crops expansion in agricultural regions of Michigan. Biomass and Bioenergy, 2011, 35, 2200-2216.	5.7	76
98	Environmental Impact Analysis of Biofuel Crops Expansion in the Saginaw River Watershed. Journal of Biobased Materials and Bioenergy, 2011, 5, 30-54.	0.3	19
99	Evaluating the Impacts of Land Use Changes on Hydrologic Responses in the Agricultural Regions of Michigan and Wisconsin. , 2010, , .		0
100	Assessing the Impacts of Climate Change on Best Management Practices (BMPs) Implementation Strategies. , 2010, , .		0
101	Case Study: Evaluation of Streamflow Partitioning Methods. Journal of Irrigation and Drainage Engineering - ASCE, 2009, 135, 791-801.	1.0	10
102	Watershed Physical and Hydrological Effects on Baseflow Separation. Journal of Hydrologic Engineering - ASCE, 2008, 13, 971-980.	1.9	6
103	Hydrograph Separation by Incorporating Climatological Factors: Application to Small Experimental Watersheds. Journal of the American Water Resources Association, 2007, 43, 744-756.	2.4	7
104	Uncertainty Analysis of Hydrologic and Water Quality Predictions for a Small Watershed Using SWAT2000. Environmental Forensics, 2003, 4, 229-238.	2.6	37
105	A machine learning framework for predicting downstream water end-use events with upstream sensors. Water Science and Technology: Water Supply, 0, , .	2.1	0