

# Mojtaba Sadegh

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8031210/publications.pdf>

Version: 2024-02-01

65  
papers

3,330  
citations

147566

31  
h-index

155451

55  
g-index

66  
all docs

66  
docs citations

66  
times ranked

3104  
citing authors

#	ARTICLE	IF	CITATIONS
1	Copulas for hydroclimatic analysis: A practice-oriented overview. <i>Wiley Interdisciplinary Reviews: Water</i> , 2022, 9, .	2.8	31
2	Increasing Heat Stress Inequality in a Warming Climate. <i>Earth's Future</i> , 2022, 10, .	2.4	31
3	Groundwater Level Modeling with Machine Learning: A Systematic Review and Meta-Analysis. <i>Water (Switzerland)</i> , 2022, 14, 949.	1.2	35
4	Discrepancies in changes in precipitation characteristics over the contiguous United States based on six daily gridded precipitation datasets. <i>Weather and Climate Extremes</i> , 2022, 36, 100433.	1.6	3
5	Unconventional water resources: Global opportunities and challenges. <i>Science of the Total Environment</i> , 2022, 827, 154429.	3.9	35
6	Anthropogenic stressors compound climate impacts on inland lake dynamics: The case of Hamun Lakes. <i>Science of the Total Environment</i> , 2022, 829, 154419.	3.9	12
7	A Systematic Multiple Studies Review of Low-Income, First-Generation, and Underrepresented, STEM-Degree Support Programs: Emerging Evidence-Based Models and Recommendations. <i>Education Sciences</i> , 2022, 12, 333.	1.4	8
8	A deep learning image segmentation model for agricultural irrigation system classification. <i>Computers and Electronics in Agriculture</i> , 2022, 198, 106977.	3.7	17
9	Coevolution of machine learning and process-based modelling to revolutionize Earth and environmental sciences: A perspective. <i>Hydrological Processes</i> , 2022, 36, .	1.1	20
10	Multi-objective conflict resolution optimization model for reservoirs selective depth water withdrawal considering water quality. <i>Environmental Science and Pollution Research</i> , 2021, 28, 3035-3050.	2.7	11
11	Design of a high-coverage ground-based CO <sub>2</sub> monitoring layout using a novel information theory-based optimization model. <i>Environmental Monitoring and Assessment</i> , 2021, 193, 150.	1.3	1
12	Compound Extremes Drive the Western Oregon Wildfires of September 2020. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092520.	1.5	53
13	Anthropogenic Drought: Definition, Challenges, and Opportunities. <i>Reviews of Geophysics</i> , 2021, 59, e2019RG000683.	9.0	126
14	Pooling Data Improves Multimodel IDF Estimates over Median-Based IDF Estimates: Analysis over the Susquehanna and Florida. <i>Journal of Hydrometeorology</i> , 2021, 22, 971-995.	0.7	12
15	Warming enabled upslope advance in western US forest fires. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	83
16	Anthropogenic depletion of Iran's aquifers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	82
17	Augmented Normalized Difference Water Index for improved surface water monitoring. <i>Environmental Modelling and Software</i> , 2021, 140, 105030.	1.9	38
18	Polar Ice as an Unconventional Water Resource: Opportunities and Challenges. <i>Water (Switzerland)</i> , 2021, 13, 3220.	1.2	9

#	ARTICLE	IF	CITATIONS
19	Multi-type assessment of global droughts and teleconnections. <i>Weather and Climate Extremes</i> , 2021, 34, 100402.	1.6	8
20	Optimizing chute-flip bucket system based on meta-modelling approach. <i>Canadian Journal of Civil Engineering</i> , 2020, 47, 584-595.	0.7	5
21	Pressure sensor placement in water distribution networks for leak detection using a hybrid information-entropy approach. <i>Information Sciences</i> , 2020, 516, 56-71.	4.0	34
22	Probabilistic hazard assessment of contaminated sediment in rivers. <i>Science of the Total Environment</i> , 2020, 703, 134875.	3.9	11
23	The mirage water concept and an index-based approach to quantify causes of hydrological changes in semi-arid regions. <i>Hydrological Sciences Journal</i> , 2020, 65, 311-324.	1.2	19
24	Quantifying increased fire risk in California in response to different levels of warming and drying. <i>Stochastic Environmental Research and Risk Assessment</i> , 2020, 34, 2023-2031.	1.9	14
25	A century of observations reveals increasing likelihood of continental-scale compound dry-hot extremes. <i>Science Advances</i> , 2020, 6, .	4.7	148
26	A novel dynamic hydrant flushing framework facilitated by categorizing contamination events. <i>Urban Water Journal</i> , 2020, 17, 199-211.	1.0	7
27	A novel hybrid entropy-clustering approach for optimal placement of pressure sensors for leakage detection in water distribution systems under uncertainty. <i>Urban Water Journal</i> , 2020, 17, 185-198.	1.0	15
28	A multi-objective optimal allocation of treated wastewater in urban areas using leader-follower game. <i>Journal of Cleaner Production</i> , 2020, 267, 122189.	4.6	21
29	Experimental study and numerical verification of silted-up dam break. <i>Journal of Hydrology</i> , 2020, 590, 125267.	2.3	18
30	Climate Extremes and Compound Hazards in a Warming World. <i>Annual Review of Earth and Planetary Sciences</i> , 2020, 48, 519-548.	4.6	330
31	A Universal Model of Unsaturated Hydraulic Conductivity With Complementary Adsorptive and Diffusive Process Components. <i>Water Resources Research</i> , 2020, 56, e2019WR025884.	1.7	4
32	Changes in the exposure of California's levee-protected critical infrastructure to flooding hazard in a warming climate. <i>Environmental Research Letters</i> , 2020, 15, 064032.	2.2	14
33	Data and analysis toolbox for modeling the nexus of food, energy, and water. <i>Sustainable Cities and Society</i> , 2020, 61, 102281.	5.1	19
34	Increasing concurrence of wildfire drivers tripled megafire critical danger days in Southern California between 1982 and 2018. <i>Environmental Research Letters</i> , 2020, 15, 104002.	2.2	40
35	A dataset on human perception of and response to wildfire smoke. <i>Scientific Data</i> , 2019, 6, 229.	2.4	8
36	A game theoretical low impact development optimization model for urban storm water management. <i>Journal of Cleaner Production</i> , 2019, 241, 118323.	4.6	44

#	ARTICLE	IF	CITATIONS
37	Heat wave Intensity Duration Frequency Curve: A Multivariate Approach for Hazard and Attribution Analysis. <i>Scientific Reports</i> , 2019, 9, 14117.	1.6	46
38	A generalized framework for process-informed nonstationary extreme value analysis. <i>Advances in Water Resources</i> , 2019, 130, 270-282.	1.7	56
39	A fuzzy multi-objective optimization approach for treated wastewater allocation. <i>Environmental Monitoring and Assessment</i> , 2019, 191, 468.	1.3	11
40	A Multi-Model Nonstationary Rainfall-Runoff Modeling Framework: Analysis and Toolbox. <i>Water Resources Management</i> , 2019, 33, 3011-3024.	1.9	18
41	A fuzzy multi-stakeholder socio-optimal model for water and waste load allocation. <i>Environmental Monitoring and Assessment</i> , 2019, 191, 359.	1.3	17
42	A Multi-Objective Risk-Based Game Theoretic Approach to Reservoir Operation Policy in Potential Future Drought Condition. <i>Water Resources Management</i> , 2019, 33, 1999-2014.	1.9	33
43	Climate-induced Changes in the Risk of Hydrological Failure of Major Dams in California. <i>Geophysical Research Letters</i> , 2019, 46, 2130-2139.	1.5	48
44	A robust decision support leader-follower framework for design of contamination warning system in water distribution network. <i>Journal of Cleaner Production</i> , 2019, 214, 666-673.	4.6	32
45	Multihazard simulation for coastal flood mapping: Bathtub versus numerical modelling in an open estuary, Eastern Canada. <i>Journal of Flood Risk Management</i> , 2019, 12, .	1.6	42
46	Compounding effects of human activities and climatic changes on surface water availability in Iran. <i>Climatic Change</i> , 2019, 152, 379-391.	1.7	84
47	The Quest for Hydrological Signatures: Effects of Data Transformation on Bayesian Inference of Watershed Models. <i>Water Resources Management</i> , 2018, 32, 1867-1881.	1.9	24
48	Shuffled Complex-Self Adaptive Hybrid EvoLution (SC-SAHEL) optimization framework. <i>Environmental Modelling and Software</i> , 2018, 104, 215-235.	1.9	29
49	Optimal joint deployment of flow and pressure sensors for leak identification in water distribution networks. <i>Urban Water Journal</i> , 2018, 15, 837-846.	1.0	9
50	Developing a non-cooperative optimization model for water and crop area allocation based on leader-follower game. <i>Journal of Hydrology</i> , 2018, 567, 51-59.	2.3	33
51	How do natural hazards cascade to cause disasters?. <i>Nature</i> , 2018, 561, 458-460.	13.7	165
52	A new normal for streamflow in California in a warming climate: Wetter wet seasons and drier dry seasons. <i>Journal of Hydrology</i> , 2018, 567, 203-211.	2.3	42
53	A hybrid clustering-fusion methodology for land subsidence estimation. <i>Natural Hazards</i> , 2018, 94, 905-926.	1.6	22
54	Multihazard Scenarios for Analysis of Compound Extreme Events. <i>Geophysical Research Letters</i> , 2018, 45, 5470-5480.	1.5	139

#	ARTICLE	IF	CITATIONS
55	Optimal and objective placement of sensors in water distribution systems using information theory. <i>Water Research</i> , 2018, 143, 218-228.	5.3	48
56	Stochastic modeling of suspended sediment load in alluvial rivers. <i>Advances in Water Resources</i> , 2018, 119, 188-196.	1.7	32
57	Climate-informed environmental inflows to revive a drying lake facing meteorological and anthropogenic droughts. <i>Environmental Research Letters</i> , 2018, 13, 084010.	2.2	82
58	GHWR, a multi-method global heatwave and warm-spell record and toolbox. <i>Scientific Data</i> , 2018, 5, 180206.	2.4	46
59	Multivariate Copula Analysis Toolbox (MvCAT): Describing dependence and underlying uncertainty using a Bayesian framework. <i>Water Resources Research</i> , 2017, 53, 5166-5183.	1.7	226
60	Increasing probability of mortality during Indian heat waves. <i>Science Advances</i> , 2017, 3, e1700066.	4.7	247
61	The stationarity paradigm revisited: Hypothesis testing using diagnostics, summary metrics, and DREAM <sub>(ABC)</sub> . <i>Water Resources Research</i> , 2015, 51, 9207-9231.	1.7	38
62	Approximate Bayesian Computation using Markov Chain Monte Carlo simulation: DREAM <sub>(ABC)</sub> . <i>Water Resources Research</i> , 2014, 50, 6767-6787.	1.7	92
63	Toward diagnostic model calibration and evaluation: Approximate Bayesian computation. <i>Water Resources Research</i> , 2013, 49, 4335-4345.	1.7	123
64	Water Resources Allocation Using Solution Concepts of Fuzzy Cooperative Games: Fuzzy Least Core and Fuzzy Weak Least Core. <i>Water Resources Management</i> , 2011, 25, 2543-2573.	1.9	59
65	Optimal Inter-Basin Water Allocation Using Crisp and Fuzzy Shapley Games. <i>Water Resources Management</i> , 2010, 24, 2291-2310.	1.9	120