

# Ali Mirchi

## List of Publications by Year in descending order

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Version: 2024-02-01

58  
papers

2,970  
citations

218381

26  
h-index

174990

52  
g-index

60  
all docs

60  
docs citations

60  
times ranked

2992  
citing authors

#	ARTICLE	IF	CITATIONS
1	The environmental flows implementation challenge: Insights and recommendations across water-limited systems. <i>Wiley Interdisciplinary Reviews: Water</i> , 2022, 9, e1565.	2.8	22
2	Managing Water Stress and Climate Risk in South Florida. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2022, 148, .	1.3	0
3	Vulnerability of a Tunisian Coastal Aquifer to Seawater Intrusion: Insights from the GALDIT Model. <i>Water (Switzerland)</i> , 2022, 14, 1177.	1.2	8
4	A Review on Interpretable and Explainable Artificial Intelligence in Hydroclimatic Applications. <i>Water (Switzerland)</i> , 2022, 14, 1230.	1.2	20
5	Desiccation of the Transboundary Hamun Lakes between Iran and Afghanistan in Response to Hydro-climatic Droughts and Anthropogenic Activities. <i>Journal of Great Lakes Research</i> , 2022, 48, 876-889.	0.8	18
6	Combining downscaled-GRACE data with SWAT to improve the estimation of groundwater storage and depletion variations in the Irrigated Indus Basin (IIB). <i>Science of the Total Environment</i> , 2022, 838, 156044.	3.9	34
7	Urban Water Demand: Statistical Optimization Approach to Modeling Daily Demand. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2021, 147, .	1.3	14
8	System dynamics simulation of regional water supply and demand using a food-energy-water nexus approach: Application to Qazvin Plain, Iran. <i>Journal of Environmental Management</i> , 2021, 280, 111843.	3.8	60
9	Anthropogenic Drought: Definition, Challenges, and Opportunities. <i>Reviews of Geophysics</i> , 2021, 59, e2019RG000683.	9.0	126
10	Battling Water Limits to Growth: Lessons from Water Trends in the Central Plateau of Iran. <i>Environmental Management</i> , 2021, 68, 53-64.	1.2	25
11	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
12	Reliability of functional forms for calculation of longitudinal dispersion coefficient in rivers. <i>Science of the Total Environment</i> , 2021, 791, 148394.	3.9	14
13	A comprehensive uncertainty analysis of model-estimated longitudinal and lateral dispersion coefficients in open channels. <i>Journal of Hydrology</i> , 2021, 603, 126850.	2.3	25
14	Impacts of reduced deposition of atmospheric nitrogen on coastal marine eco-system during substantial shift in human activities in the twenty-first century. <i>Geomatics, Natural Hazards and Risk</i> , 2021, 12, 2023-2047.	2.0	15
15	Explainable AI reveals new hydroclimatic insights for ecosystem-centric groundwater management. <i>Environmental Research Letters</i> , 2021, 16, 114024.	2.2	12
16	Probabilistic hazard assessment of contaminated sediment in rivers. <i>Science of the Total Environment</i> , 2020, 703, 134875.	3.9	11
17	Modeling arid/semi-arid irrigated agricultural watersheds with SWAT: Applications, challenges, and solution strategies. <i>Journal of Hydrology</i> , 2020, 590, 125418.	2.3	53
18	Using Analytical Hierarchy Process and Multi-Influencing Factors to Map Groundwater Recharge Zones in a Semi-Arid Mediterranean Coastal Aquifer. <i>Water (Switzerland)</i> , 2020, 12, 2525.	1.2	60

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19	Sea Level Rise Effect on Groundwater Rise and Stormwater Retention Pond Reliability. Water (Switzerland), 2020, 12, 1129.	1.2	15
20	Training Water Resources Systems Engineers to Communicate: Acting on Observations from On-the-Job Practitioners. Journal of Professional Issues in Engineering Education and Practice, 2019, 145, 04019012.	0.9	2
21	Implications of groundwater development and seawater intrusion for sustainability of a Mediterranean coastal aquifer in Tunisia. Environmental Monitoring and Assessment, 2019, 191, 696.	1.3	22
22	The Groundwaterâ€Energyâ€Food Nexus in Iranâ€™s Agricultural Sector: Implications for Water Security. Water (Switzerland), 2019, 11, 1835.	1.2	83
23	A Multi-Model Nonstationary Rainfall-Runoff Modeling Framework: Analysis and Toolbox. Water Resources Management, 2019, 33, 3011-3024.	1.9	18
24	Iran in transition. Lancet, The, 2019, 393, 1984-2005.	6.3	131
25	Climateâ€Induced Changes in the Risk of Hydrological Failure of Major Dams in California. Geophysical Research Letters, 2019, 46, 2130-2139.	1.5	48
26	Spatiotemporal Dimensions of Water Stress Accounting: Incorporating Groundwaterâ€Surface Water Interactions and Ecological Thresholds. Environmental Science & Technology, 2019, 53, 2316-2323.	4.6	3
27	Compounding effects of human activities and climatic changes on surface water availability in Iran. Climatic Change, 2019, 152, 379-391.	1.7	84
28	A hydro-economic model of South Florida water resources system. Science of the Total Environment, 2018, 628-629, 1531-1541.	3.9	15
29	Value of irrigation water usage in South Florida agriculture. Science of the Total Environment, 2018, 626, 486-496.	3.9	11
30	Ecological-economic assessment of the effects of freshwater flow in the Florida Everglades on recreational fisheries. Science of the Total Environment, 2018, 627, 480-493.	3.9	18
31	Economic impacts of urban flooding in South Florida: Potential consequences of managing groundwater to prevent salt water intrusion. Science of the Total Environment, 2018, 621, 465-478.	3.9	29
32	A new normal for streamflow in California in a warming climate: Wetter wet seasons and drier dry seasons. Journal of Hydrology, 2018, 567, 203-211.	2.3	42
33	Facilitating Integration in Interdisciplinary Research: Lessons from a South Florida Water, Sustainability, and Climate Project. Environmental Management, 2018, 62, 1025-1037.	1.2	12
34	Climate-informed environmental inflows to revive a drying lake facing meteorological and anthropogenic droughts. Environmental Research Letters, 2018, 13, 084010.	2.2	82
35	Reform and renewables in China: The architecture of Yunnan's hydropower dominated electricity market. Renewable and Sustainable Energy Reviews, 2018, 94, 682-693.	8.2	64
36	Hydrologic impacts of drought-adaptive agricultural water management in a semi-arid river basin: Case of Rincon Valley, New Mexico. Agricultural Water Management, 2018, 209, 206-218.	2.4	24

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37	System Archetypes in Water Resource Management. , 2018, , .		6
38	Improving Continuous Hydrologic Modeling of Data-Poor River Basins Using Hydrologic Engineering Center's Hydrologic Modeling System: Case Study of Karkheh River Basin. Journal of Hydrologic Engineering - ASCE, 2017, 22, .	0.8	15
39	System Dynamics Evaluation of Climate Change Adaptation Strategies for Water Resources Management in Central Iran. Water Resources Management, 2017, 31, 1413-1434.	1.9	91
40	Quantifying Anthropogenic Stress on Groundwater Resources. Scientific Reports, 2017, 7, 12910.	1.6	87
41	f-MOPSO: An alternative multi-objective PSO algorithm for conjunctive water use management. Journal of Hydro-Environment Research, 2017, 14, 1-18.	1.0	57
42	Serious games on environmental management. Sustainable Cities and Society, 2017, 29, 1-11.	5.1	106
43	China's Booming Hydropower: Systems Modeling Challenges and Opportunities. Journal of Water Resources Planning and Management - ASCE, 2017, 143, .	1.3	53
44	Simulation and Regulation of Market Operation in Hydro-Dominated Environment: The Yunnan Case. Water (Switzerland), 2017, 9, 623.	1.2	10
45	Iran's Socio-economic Drought: Challenges of a Water-Bankrupt Nation. Iranian Studies, 2016, 49, 997-1016.	0.2	247
46	Climate Change Impacts on Maize Production in the Warm Heart of Africa. Water Resources Management, 2016, 30, 5299-5312.	1.9	69
47	Hydro-Economic Model of South Florida's Water Resources. , 2015, , .		2
48	Aral Sea syndrome desiccates Lake Urmia: Call for action. Journal of Great Lakes Research, 2015, 41, 307-311.	0.8	271
49	Sustainable Energy Planning with Respect to Resource Use Efficiency: Insights for the United States. , 2014, , .		4
50	A negotiation support system for resolving an international trans-boundary natural resource conflict. Environmental Modelling and Software, 2014, 51, 240-249.	1.9	27
51	Water resources management in a homogenizing world: Averting the growth and underinvestment trajectory. Water Resources Research, 2014, 50, 7515-7526.	1.7	24
52	System-Dynamics Approach to Evaluate Climate Change Adaptation Strategies for Iran's Zayandeh-Rud Water System. , 2014, , .		5
53	Water transfer as a solution to water shortage: A fix that can Backfire. Journal of Hydrology, 2013, 491, 23-39.	2.3	263
54	A Systems Approach to Holistic Total Maximum Daily Load Policy: Case of Lake Allegan, Michigan. Journal of Water Resources Planning and Management - ASCE, 2013, 139, 544-553.	1.3	22

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55	Water Transfer: A Fix that May Fail. , 2013, , .		1
56	&#x0D; World Energy Balance Outlook and OPEC Production Capacity: Implications for Global Oil Security. Energies, 2012, 5, 2626-2651.	1.6	46
57	Synthesis of System Dynamics Tools for Holistic Conceptualization of Water Resources Problems. Water Resources Management, 2012, 26, 2421-2442.	1.9	255
58	Climate Change Impacts on Agricultural Water Availability in the Middle Rio Grande Basin. Journal of the American Water Resources Association, 0, , .	1.0	3