

# Kaveh Madani

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

151  
papers

5,160  
citations

39  
h-index

67  
g-index

167  
ext. papers

6,247  
ext. citations

5.9  
avg, IF

6.65  
L-index

#	Paper	IF	Citations
151	How much water did Iran lose over the last two decades?. <i>Journal of Hydrology: Regional Studies</i> , <b>2022</b> , 41, 101095	3.6	2
150	Have International Sanctions Impacted Iran's Environment?. <i>World</i> , <b>2021</b> , 2, 231-252	1.7	7
149	Anthropogenic Drought: Definition, Challenges, and Opportunities. <i>Reviews of Geophysics</i> , <b>2021</b> , 59, e2019RG000683	13.9	9
148	Battling Water Limits to Growth: Lessons from Water Trends in the Central Plateau of Iran. <i>Environmental Management</i> , <b>2021</b> , 68, 53-64	3.1	10
147	The overlooked environmental footprint of increasing Internet use. <i>Resources, Conservation and Recycling</i> , <b>2021</b> , 167, 105389	11.9	23
146	Anthropogenic depletion of Iran's aquifers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	24
145	Are we ready for more dam removals in the United States?. <i>Environmental Research: Infrastructure and Sustainability</i> , <b>2021</b> , 1, 013001		4
144	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> , <b>2021</b> , 280, 111843	7.9	21
143	Beyond Carbon Emissions: A System of Systems Approach to Sustainable Energy Development in East Africa <b>2020</b> , 323-349		
142	Preparing for proactive dam removal decisions. <i>Science</i> , <b>2020</b> , 369, 150	33.3	6
141	Developing a sustainability science approach for water systems. <i>Ecology and Society</i> , <b>2020</b> , 25,	4.1	11
140	Sea Level Rise Effect on Groundwater Rise and Stormwater Retention Pond Reliability. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 1129	3	3
139	Dealing with Trade-offs in Sustainable Energy Planning: Insight for Indonesia <b>2020</b> , 243-266		
138	A Multi-attribute Assessment of Electricity Supply Options in Lebanon <b>2020</b> , 1-27		0
137	The contribution of anthropogenic influence to more anomalous extreme precipitation in Europe. <i>Environmental Research Letters</i> , <b>2020</b> , 15, 104077	6.2	11
136	Caspian Sea is eutrophying: the alarming message of satellite data. <i>Environmental Research Letters</i> , <b>2020</b> , 15, 124047	6.2	14
135	The importance of considering resource availability restrictions in energy planning: What is the footprint of electricity generation in the Middle East and North Africa (MENA)?. <i>Science of the Total Environment</i> , <b>2020</b> , 717, 135035	10.2	17

134	Socio-Hydrology: A New Understanding to Unite or a New Science to Divide?. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 1941	3	21
133	Iran's Agriculture in the Anthropocene. <i>Earth's Future</i> , <b>2020</b> , 8, e2020EF001547	7.9	33
132	How International Economic Sanctions Harm the Environment. <i>Earth's Future</i> , <b>2020</b> , 8, e2020EF001829	7.9	6
131	The Groundwater-Energy-Food Nexus in Iran's Agricultural Sector: Implications for Water Security. <i>Water (Switzerland)</i> , <b>2019</b> , 11, 1835	3	41
130	Strategic Analyses of the Hydropolitical Conflicts Surrounding the Grand Ethiopian Renaissance Dam. <i>Group Decision and Negotiation</i> , <b>2019</b> , 28, 305-340	2.5	8
129	The relative aggregate footprint of electricity generation technologies in the European Union (EU): A system of systems approach. <i>Resources, Conservation and Recycling</i> , <b>2019</b> , 143, 282-290	11.9	18
128	The value of extreme events: What doesn't exterminate your water system makes it more resilient. <i>Journal of Hydrology</i> , <b>2019</b> , 575, 269-272	6	11
127	Iran in transition. <i>Lancet, The</i> , <b>2019</b> , 393, 1984-2005	40	64
126	A Game Theory Warning to Blind Drivers Playing Chicken With Public Goods. <i>Water Resources Research</i> , <b>2019</b> , 55, 2000-2013	5.4	6
125	Training Water Resources Systems Engineers to Communicate: Acting on Observations from On-the-Job Practitioners. <i>Journal of Professional Issues in Engineering Education and Practice</i> , <b>2019</b> , 145, 04019012	0.7	2
124	Energy storage race: Has the monopoly of pumped-storage in Europe come to an end?. <i>Energy Policy</i> , <b>2019</b> , 126, 22-29	7.2	25
123	Climatic or regionally induced by humans? Tracing hydro-climatic and land-use changes to better understand the Lake Urmia tragedy. <i>Journal of Hydrology</i> , <b>2019</b> , 569, 203-217	6	122
122	Compounding effects of human activities and climatic changes on surface water availability in Iran. <i>Climatic Change</i> , <b>2019</b> , 152, 379-391	4.5	49
121	Facilitating the transition to sustainable green chemistry. <i>Current Opinion in Green and Sustainable Chemistry</i> , <b>2018</b> , 13, 130-136	7.9	6
120	Regionalization of precipitation characteristics in Iran's Lake Urmia basin. <i>Theoretical and Applied Climatology</i> , <b>2018</b> , 132, 363-373	3	34
119	Urban water security: Emerging discussion and remaining challenges. <i>Sustainable Cities and Society</i> , <b>2018</b> , 41, 925-928	10.1	44
118	The water footprint of water conservation using shade balls in California. <i>Nature Sustainability</i> , <b>2018</b> , 1, 358-360	22.1	22
117	Climate-informed environmental inflows to revive a drying lake facing meteorological and anthropogenic droughts. <i>Environmental Research Letters</i> , <b>2018</b> , 13, 084010	6.2	63

116	Reform and renewables in China: The architecture of Yunnan's hydropower dominated electricity market. <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 94, 682-693	16.2	32
115	System Archetypes in Water Resource Management <b>2018</b> ,		3
114	Defining the Role of Water Resources Systems Analysis in a Changing Future. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2018</b> , 144, 01818003	2.8	9
113	Techno-economic feasibility of grid-independent residential roof-top solar PV systems in Muscat, Oman. <i>Energy Conversion and Management</i> , <b>2018</b> , 178, 322-334	10.6	20
112	Decision making under deep uncertainty for adapting urban drainage systems to change. <i>Urban Water Journal</i> , <b>2018</b> , 15, 552-560	2.3	14
111	Adaptive water infrastructure planning for nonstationary hydrology. <i>Advances in Water Resources</i> , <b>2018</b> , 118, 83-94	4.7	34
110	Game theory and corporate governance: conditions for effective stewardship of companies exposed to climate change risks. Prepared for the 1st Global Conference of Stranded Assets and the Environment September 24 and 25, 2015; Oxford, UK. View all notes. <i>Journal of Sustainable Finance and Investment</i> , <b>2017</b> , 7, 14-36	3	8
109	Improving Continuous Hydrologic Modeling of Data-Poor River Basins Using Hydrologic Engineering Center's Hydrologic Modeling System: Case Study of Karkheh River Basin. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2017</b> , 22, 05017011	1.8	10
108	System Dynamics Evaluation of Climate Change Adaptation Strategies for Water Resources Management in Central Iran. <i>Water Resources Management</i> , <b>2017</b> , 31, 1413-1434	3.7	63
107	Feasibility of adopting smart water meters in aquifer management: An integrated hydro-economic analysis. <i>Agricultural Water Management</i> , <b>2017</b> , 181, 85-93	5.9	17
106	Quantifying Anthropogenic Stress on Groundwater Resources. <i>Scientific Reports</i> , <b>2017</b> , 7, 12910	4.9	60
105	More Integrated Formal Education and Practice in Water Resources Systems Analysis. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2017</b> , 143, 02517001	2.8	5
104	Iran's Land Suitability for Agriculture. <i>Scientific Reports</i> , <b>2017</b> , 7, 7670	4.9	78
103	Stakeholder-driven multi-attribute analysis for energy project selection under uncertainty. <i>Energy</i> , <b>2017</b> , 119, 744-753	7.9	19
102	f-MOPSO: An alternative multi-objective PSO algorithm for conjunctive water use management. <i>Journal of Hydro-Environment Research</i> , <b>2017</b> , 14, 1-18	2.3	44
101	Serious games on environmental management. <i>Sustainable Cities and Society</i> , <b>2017</b> , 29, 1-11	10.1	64
100	China's Booming Hydropower: Systems Modeling Challenges and Opportunities. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2017</b> , 143, 02516002	2.8	32
99	California drought increases CO2 footprint of energy. <i>Sustainable Cities and Society</i> , <b>2017</b> , 28, 450-452	10.1	28

98	How Much Are Floridians Willing to Pay for Protecting Sea Turtles from Sea Level Rise?. <i>Environmental Management</i> , <b>2016</b> , 57, 176-88	3.1	10
97	Climate Change Impacts on Maize Production in the Warm Heart of Africa. <i>Water Resources Management</i> , <b>2016</b> , 30, 5299-5312	3.7	44
96	Game theory and risk-based leveed river system planning with noncooperation. <i>Water Resources Research</i> , <b>2016</b> , 52, 119-134	5.4	15
95	Future climate impacts on maize farming and food security in Malawi. <i>Scientific Reports</i> , <b>2016</b> , 6, 36241	4.9	52
94	Multi-level multi-criteria analysis of alternative fuels for waste collection vehicles in the United States. <i>Science of the Total Environment</i> , <b>2016</b> , 550, 349-361	10.2	39
93	Understanding Drought Dynamics during Dry Season in Eastern Northeast Brazil. <i>Frontiers in Earth Science</i> , <b>2016</b> , 4,	3.5	12
92	Iran's Socio-economic Drought: Challenges of a Water-Bankrupt Nation. <i>Iranian Studies</i> , <b>2016</b> , 49, 997-1016	16.4	156
91	An environmental-economic assessment of residential curbside collection programs in Central Florida. <i>Waste Management</i> , <b>2016</b> , 54, 27-38	8.6	9
90	Successful Collaborative Negotiation over Water Policy: Substance versus Process. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2015</b> , 141, 04015009	2.8	7
89	Water for Energy: Inconsistent Assessment Standards and Inability to Judge Properly. <i>Current Sustainable/Renewable Energy Reports</i> , <b>2015</b> , 2, 10-16	2.8	28
88	A robust unsupervised consensus control chart pattern recognition framework. <i>Expert Systems With Applications</i> , <b>2015</b> , 42, 6767-6776	7.8	19
87	Risk-Based Levee System Design: Rational vs. Optimal <b>2015</b> ,		1
86	A Game Theoretic Analysis of the Conflict over Iran's Nuclear Program <b>2015</b> ,		4
85	The Nile and the Grand Ethiopian Renaissance Dam: Is There a Meeting Point between Nationalism and Hydrosolidarity?. <i>Journal of Contemporary Water Research and Education</i> , <b>2015</b> , 155, 73-82	1.2	24
84	The Water Footprint of Data Centers. <i>Sustainability</i> , <b>2015</b> , 7, 11260-11284	3.6	14
83	A system of systems approach to energy sustainability assessment: Are all renewables really green?. <i>Ecological Indicators</i> , <b>2015</b> , 52, 194-206	5.8	95
82	Aral Sea syndrome desiccates Lake Urmia: Call for action. <i>Journal of Great Lakes Research</i> , <b>2015</b> , 41, 307-311	311	196
81	Bargaining Under Uncertainty: A Monte-Carlo Fallback Bargaining Method for Predicting the Likely Outcomes of Environmental Conflicts <b>2015</b> , 201-212		3

80	Climate change impacts on high-elevation hydroelectricity in California. <i>Journal of Hydrology</i> , <b>2014</b> , 510, 153-163	6	46
79	A negotiation support system for resolving an international trans-boundary natural resource conflict. <i>Environmental Modelling and Software</i> , <b>2014</b> , 51, 240-249	5.2	21
78	Online Gaming for Understanding Agents' Behavior in Water-Sharing Problems <b>2014</b> ,		1
77	Enhanced crane operations in construction using service request optimization. <i>Automation in Construction</i> , <b>2014</b> , 47, 69-77	9.6	22
76	Water resources management in a homogenizing world: Averting the Growth and Underinvestment trajectory. <i>Water Resources Research</i> , <b>2014</b> , 50, 7515-7526	5.4	20
75	A game theory reinforcement learning (GTBL) method to develop optimal operation policies for multi-operator reservoir systems. <i>Journal of Hydrology</i> , <b>2014</b> , 519, 732-742	6	63
74	Social Planner Solution for the Caspian Sea Conflict. <i>Group Decision and Negotiation</i> , <b>2014</b> , 23, 579-596	2.5	39
73	System-Dynamics Approach to Evaluate Climate Change Adaptation Strategies for Iran's Zayandeh-Rud Water System <b>2014</b> ,		5
72	Water management in Iran: what is causing the looming crisis?. <i>Journal of Environmental Studies and Sciences</i> , <b>2014</b> , 4, 315-328	0.9	298
71	Optimality versus stability in water resource allocation. <i>Journal of Environmental Management</i> , <b>2014</b> , 133, 343-54	7.9	64
70	Adaptation of surface water supply to climate change in central Iran. <i>Journal of Water and Climate Change</i> , <b>2014</b> , 5, 391-407	2.3	24
69	A new framework for resolving conflicts over transboundary rivers using bankruptcy methods. <i>Hydrology and Earth System Sciences</i> , <b>2014</b> , 18, 3055-3068	5.5	43
68	Cooperative Game Theoretic Framework for Joint Resource Management in Construction. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2014</b> , 140, 04013066	4.2	40
67	Sustainable Energy Planning with Respect to Resource Use Efficiency: Insights for the United States <b>2014</b> ,		3
66	Evaluating the Effects of Climate Change on Water Reliability in Iran's Karkheh River Basin <b>2014</b> ,		6
65	Climate Change Impacts on Rainfed Corn Production in Malawi's Lilongwe District <b>2014</b> ,		1
64	The significance of game structure evolution for deriving game-theoretic policy insights <b>2014</b> ,		6
63	Nash-reinforcement learning (N-RL) for developing coordination strategies in non-transferable utility games <b>2014</b> ,		6

62	New Finance-Based Portfolio Analysis Framework for Sustainable Energy Planning <b>2014</b> ,		3
61	Water Resources Systems Analysis: A Bright Past and a Challenging but Promising Future. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2014</b> , 140, 407-409	2.8	23
60	Sustainability Monitoring and Assessment: New Challenges Require New Thinking. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2014</b> , 140, 133-135	2.8	26
59	The value of cooperation in coastal aquifer management: Lessons for Oman <b>2014</b> ,		1
58	Voting Under Uncertainty: A Stochastic Framework for Analyzing Group Decision Making Problems. <i>Water Resources Management</i> , <b>2014</b> , 28, 1839-1856	3.7	39
57	Climate change impacts on crop production in Iran's Zayandeh-Rud River Basin. <i>Science of the Total Environment</i> , <b>2013</b> , 442, 405-19	10.2	139
56	Exogenous regulatory institutions for sustainable common pool resource management: Application to groundwater. <i>Water Resources and Economics</i> , <b>2013</b> , 2-3, 57-76	2	30
55	Stability Analysis of the Proposed Caspian Sea Governance Methods <b>2013</b> ,		2
54	Online Gaming for Sustainable Common Pool Resource Management and Tragedy of the Commons Prevention <b>2013</b> ,		4
53	Modeling international climate change negotiations more responsibly: Can highly simplified game theory models provide reliable policy insights?. <i>Ecological Economics</i> , <b>2013</b> , 90, 68-76	5.6	56
52	Integrated modeling framework for leasing urban roads: A case study of Fresno, California. <i>Transportation Research Part B: Methodological</i> , <b>2013</b> , 48, 17-30	7.2	12
51	Water transfer as a solution to water shortage: A fix that can Backfire. <i>Journal of Hydrology</i> , <b>2013</b> , 491, 23-39	6	183
50	Climate Change and Hydropower Planning in the Middle East: Implications for Iran's Karkheh Hydropower Systems. <i>Journal of Energy Engineering - ASCE</i> , <b>2013</b> , 139, 153-160	1.7	35
49	Assessing the Stability of Social Planner Solutions in Multi-Participant Water Conflicts <b>2013</b> ,		1
48	Water Transfer: A Fix that May Fail <b>2013</b> ,		1
47	A Multi-Participant, Multi-Criteria Analysis of Energy Supply Sources for Fairbanks, Alaska <b>2013</b> ,		4
46	A Systems Approach to Energy Efficiency Assessment <b>2013</b> ,		2
45	The Water Demand of Energy: Implications for Sustainable Energy Policy Development. <i>Sustainability</i> , <b>2013</b> , 5, 4674-4687	3.6	41

44	Response of California Summer Hydroelectricity Generation to Spring Temperature. <i>British Journal of Environment and Climate Change</i> , <b>2013</b> , 3, 316-332		5
43	Climate Change Impacts on California's Water Resources <b>2013</b> , 301-319		16
42	Non-cooperative institutions for sustainable common pool resource management: Application to groundwater. <i>Ecological Economics</i> , <b>2012</b> , 74, 34-45	5.6	72
41	Developing a module for estimating climate warming effects on hydropower pricing in California. <i>Energy Policy</i> , <b>2012</b> , 42, 261-271	7.2	25
40	Bankruptcy Methods for Resolving Water Resources Conflicts <b>2012</b> ,		11
39	Cooperative institutions for sustainable common pool resource management: Application to groundwater. <i>Water Resources Research</i> , <b>2012</b> , 48,	5.4	61
38	Multi-Criteria Decision Making under Uncertainty: Application to California's Sacramento-San Joaquin Delta Problem <b>2012</b> ,		8
37	Toward More Efficient Global Warming Policy Solutions: The Necessity for Multi-Criteria Selection of Energy Sources <b>2012</b> ,		4
36	Climate Change and Hydropower in Iran's Karkheh River Basin <b>2012</b> ,		6
35	Synthesis of System Dynamics Tools for Holistic Conceptualization of Water Resources Problems. <i>Water Resources Management</i> , <b>2012</b> , 26, 2421-2442	3.7	193
34	Resolving Transboundary Water Conflicts: Lessons Learned from the Qezelozan-Sefidrood River Bankruptcy Problem <b>2012</b> ,		7
33	Water allocation under climate change in the Qezelozan-Sefidrood Watershed <b>2012</b> ,		3
32	Bringing Environmental Benefits into Caspian Sea Negotiations for Resources Allocation: Cooperative Game Theory Insights <b>2012</b> ,		4
31	California's Sacramento-San Joaquin Delta Conflict: From Cooperation to Chicken. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2012</b> , 138, 90-99	2.8	47
30	Stochastic Fuzzy Assessment for Managing Hydro-Environmental Systems under Uncertainty and Ambiguity <b>2012</b> ,		3
29	World Energy Balance Outlook and OPEC Production Capacity: Implications for Global Oil Security. <i>Energies</i> , <b>2012</b> , 5, 2626-2651	3.1	35
28	Game Theory Insights for the Caspian Sea Conflict <b>2011</b> ,		5
27	Modeling and analysis of the conflict over the Triple Islands in the Persian Gulf <b>2011</b> ,		4



26	Can We Rely on Renewable Energy Sources to Overcome Global Warming? <b>2011</b> ,		6
25	Adapting California's water system to warm vs. dry climates. <i>Climatic Change</i> , <b>2011</b> , 109, 133-149	4.5	57
24	Non-Cooperative Stability Definitions for Strategic Analysis of Generic Water Resources Conflicts. <i>Water Resources Management</i> , <b>2011</b> , 25, 1949-1977	3.7	109
23	A Monte-Carlo game theoretic approach for Multi-Criteria Decision Making under uncertainty. <i>Advances in Water Resources</i> , <b>2011</b> , 34, 607-616	4.7	131
22	Finding the best legal governance regime for the Caspian Sea through Multi-Criteria Decision-Making methods <b>2011</b> ,		3
21	Energy-Water Meter: A Novel Solution for Groundwater Monitoring and Management <b>2011</b> ,		4
20	Hydropower licensing and climate change: Insights from cooperative game theory. <i>Advances in Water Resources</i> , <b>2011</b> , 34, 174-183	4.7	84
19	Finding the Socially Optimal Solution for California's Sacramento-San Joaquin Delta Problem <b>2011</b> ,		10
18	Strategic Multi-Criteria Decision Making under Uncertainty <b>2011</b> ,		2
17	Policy Implications of Institutional Arrangements for Sustainable Management of Common Pool Resources: The Case of Groundwater <b>2011</b> ,		2
16	Economic Costs and Adaptations for Alternative Regulations of Californias Sacramento-San Joaquin Delta. <i>San Francisco Estuary and Watershed Science</i> , <b>2011</b> , 9,	1.4	9
15	The Sacramento-San Joaquin Delta Conflict: Chicken or Prisoner's Dilemma? <b>2010</b> ,		1
14	Caspian Sea Negotiation Support System <b>2010</b> ,		5
13	Estimated impacts of climate warming on California's high-elevation hydropower. <i>Climatic Change</i> , <b>2010</b> , 102, 521-538	4.5	89
12	Game theory and water resources. <i>Journal of Hydrology</i> , <b>2010</b> , 381, 225-238	6	362
11	System Dynamics Analysis for Managing Iran's Zayandeh-Rud River Basin. <i>Water Resources Management</i> , <b>2009</b> , 23, 2163-2187	3.7	140
10	Modeling California's high-elevation hydropower systems in energy units. <i>Water Resources Research</i> , <b>2009</b> , 45,	5.4	54
9	Sharing a Multi-National Resource through Bankruptcy Procedures <b>2008</b> ,		18

8	An Ancient Struggle: A Game Theory Approach to Resolving the Nile Conflict <b>2008</b> ,		10
7	Different Approaches to Study the Adaptability of High-Elevation Hydropower Systems to Climate Change: The Case of SMUD's Upper American River Project <b>2008</b> ,		5
6	Bargaining over the Caspian Sea [The Largest Lake on the Earth <b>2008</b> ,		31
5	Reasons behind Failure of Qanats in the 20th Century <b>2008</b> ,		9
4	Adaptability and adaptations of California's water supply system to dry climate warming. <i>Climatic Change</i> , <b>2008</b> , 87, 75-90	4-5	128
3	Water Transfer and Watershed Development: A System Dynamics Approach <b>2007</b> , 1		1
2	Strategic Insights into the Jordan River Conflict <b>2007</b> ,		20
1	Systems Analysis to Promote Frames and Mental Models for Sustainable Water Management		6