

# Kaveh Madani

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/7361738/kaveh-madani-publications-by-citations.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Game theory and water resources. <i>Journal of Hydrology</i> , <b>2010</b> , 381, 225-238	6	362
150	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
149	Aral Sea syndrome desiccates Lake Urmia: Call for action. <i>Journal of Great Lakes Research</i> , <b>2015</b> , 41, 307-311		196
148	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
147	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
146	Iran's Socio-economic Drought: Challenges of a Water-Bankrupt Nation. <i>Iranian Studies</i> , <b>2016</b> , 49, 997-1016	4	156
145	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
144	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
143	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
142	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
141	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
140	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
139	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
138	Estimated impacts of climate warming on California's high-elevation hydropower. <i>Climatic Change</i> , <b>2010</b> , 102, 521-538	4.5	89
137	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
136	Iran's Land Suitability for Agriculture. <i>Scientific Reports</i> , <b>2017</b> , 7, 7670	4.9	78
135	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

134	Iran in transition. <i>Lancet, The</i> , <b>2019</b> , 393, 1984-2005	40	64
133	Optimality versus stability in water resource allocation. <i>Journal of Environmental Management</i> , <b>2014</b> , 133, 343-54	7.9	64
132	Serious games on environmental management. <i>Sustainable Cities and Society</i> , <b>2017</b> , 29, 1-11	10.1	64
131	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
130	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
129	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
128	Cooperative institutions for sustainable common pool resource management: Application to groundwater. <i>Water Resources Research</i> , <b>2012</b> , 48,	5.4	61
127	Quantifying Anthropogenic Stress on Groundwater Resources. <i>Scientific Reports</i> , <b>2017</b> , 7, 12910	4.9	60
126	Adapting California's water system to warm vs. dry climates. <i>Climatic Change</i> , <b>2011</b> , 109, 133-149	4.5	57
125	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
124	Modeling California's high-elevation hydropower systems in energy units. <i>Water Resources Research</i> , <b>2009</b> , 45,	5.4	54
123	Future climate impacts on maize farming and food security in Malawi. <i>Scientific Reports</i> , <b>2016</b> , 6, 36241	4.9	52
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	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
120	Climate change impacts on high-elevation hydroelectricity in California. <i>Journal of Hydrology</i> , <b>2014</b> , 510, 153-163	6	46
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	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
117	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

116	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
115	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
114	The Water Demand of Energy: Implications for Sustainable Energy Policy Development. <i>Sustainability</i> , <b>2013</b> , 5, 4674-4687	3.6	41
113	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
112	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
111	Social Planner's Solution for the Caspian Sea Conflict. <i>Group Decision and Negotiation</i> , <b>2014</b> , 23, 579-596	2.5	39
110	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
109	Anthropogenic Drought: Definition, Challenges, and Opportunities. <i>Reviews of Geophysics</i> , <b>2021</b> , 59, e2019RG000683	1.9	39
108	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
107	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
106	Regionalization of precipitation characteristics in Iran's Lake Urmia basin. <i>Theoretical and Applied Climatology</i> , <b>2018</b> , 132, 363-373	3	34
105	Adaptive water infrastructure planning for nonstationary hydrology. <i>Advances in Water Resources</i> , <b>2018</b> , 118, 83-94	4.7	34
104	Iran's Agriculture in the Anthropocene. <i>Earth's Future</i> , <b>2020</b> , 8, e2020EF001547	7.9	33
103	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
102	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
101	Bargaining over the Caspian Sea - The Largest Lake on the Earth <b>2008</b> ,		31
100	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
99	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

98	California drought increases CO2 footprint of energy. <i>Sustainable Cities and Society</i> , <b>2017</b> , 28, 450-452	10.1	28
97	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
96	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
95	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
94	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
93	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
92	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
91	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
90	The overlooked environmental footprint of increasing Internet use. <i>Resources, Conservation and Recycling</i> , <b>2021</b> , 167, 105389	11.9	23
89	The water footprint of water conservation using shade balls in California. <i>Nature Sustainability</i> , <b>2018</b> , 1, 358-360	22.1	22
88	Enhanced crane operations in construction using service request optimization. <i>Automation in Construction</i> , <b>2014</b> , 47, 69-77	9.6	22
87	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
86	Socio-Hydrology: A New Understanding to Unite or a New Science to Divide?. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 1941	3	21
85	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
84	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
83	Strategic Insights into the Jordan River Conflict <b>2007</b> ,		20
82	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
81	A robust unsupervised consensus control chart pattern recognition framework. <i>Expert Systems With Applications</i> , <b>2015</b> , 42, 6767-6776	7.8	19

80	Stakeholder-driven multi-attribute analysis for energy project selection under uncertainty. <i>Energy</i> , <b>2017</b> , 119, 744-753	7.9	19
79	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
78	Sharing a Multi-National Resource through Bankruptcy Procedures <b>2008</b> ,		18
77	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
76	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
75	Climate Change Impacts on California's Water Resources <b>2013</b> , 301-319		16
74	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
73	The Water Footprint of Data Centers. <i>Sustainability</i> , <b>2015</b> , 7, 11260-11284	3.6	14
72	Caspian Sea is eutrophying: the alarming message of satellite data. <i>Environmental Research Letters</i> , <b>2020</b> , 15, 124047	6.2	14
71	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
70	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
69	Understanding Drought Dynamics during Dry Season in Eastern Northeast Brazil. <i>Frontiers in Earth Science</i> , <b>2016</b> , 4,	3.5	12
68	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
67	Developing a sustainability science approach for water systems. <i>Ecology and Society</i> , <b>2020</b> , 25,	4.1	11
66	Bankruptcy Methods for Resolving Water Resources Conflicts <b>2012</b> ,		11
65	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
64	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
63	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

62	Finding the Socially Optimal Solution for California's Sacramento-San Joaquin Delta Problem <b>2011</b> ,		10
61	An Ancient Struggle: A Game Theory Approach to Resolving the Nile Conflict <b>2008</b> ,		10
60	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
59	Reasons behind Failure of Qanats in the 20th Century <b>2008</b> ,		9
58	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
57	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
56	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
55	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
54	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
53	Multi-Criteria Decision Making under Uncertainty: Application to California's Sacramento-San Joaquin Delta Problem <b>2012</b> ,		8
52	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
51	Resolving Transboundary Water Conflicts: Lessons Learned from the Qezelozan-Sefidrood River Bankruptcy Problem <b>2012</b> ,		7
50	Have International Sanctions Impacted Iran's Environment?. <i>World</i> , <b>2021</b> , 2, 231-252	1.7	7
49	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
48	Preparing for proactive dam removal decisions. <i>Science</i> , <b>2020</b> , 369, 150	33.3	6
47	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
46	Evaluating the Effects of Climate Change on Water Reliability in Iran's Karkheh River Basin <b>2014</b> ,		6
45	The significance of game structure evolution for deriving game-theoretic policy insights <b>2014</b> ,		6

44	Nash-reinforcement learning (N-RL) for developing coordination strategies in non-transferable utility games <b>2014</b> ,		6
43	Climate Change and Hydropower in Iran's Karkheh River Basin <b>2012</b> ,		6
42	Can We Rely on Renewable Energy Sources to Overcome Global Warming? <b>2011</b> ,		6
41	Systems Analysis to Promote Frames and Mental Models for Sustainable Water Management		6
40	How International Economic Sanctions Harm the Environment. <i>Earth's Future</i> , <b>2020</b> , 8, e2020EF001829	7.9	6
39	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
38	System-Dynamics Approach to Evaluate Climate Change Adaptation Strategies for Iran's Zayandeh-Rud Water System <b>2014</b> ,		5
37	Game Theory Insights for the Caspian Sea Conflict <b>2011</b> ,		5
36	Caspian Sea Negotiation Support System <b>2010</b> ,		5
35	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
34	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
33	Online Gaming for Sustainable Common Pool Resource Management and Tragedy of the Commons Prevention <b>2013</b> ,		4
32	A Game Theoretic Analysis of the Conflict over Iran's Nuclear Program <b>2015</b> ,		4
31	Toward More Efficient Global Warming Policy Solutions: The Necessity for Multi-Criteria Selection of Energy Sources <b>2012</b> ,		4
30	A Multi-Participant, Multi-Criteria Analysis of Energy Supply Sources for Fairbanks, Alaska <b>2013</b> ,		4
29	Modeling and analysis of the conflict over the Triple Islands in the Persian Gulf <b>2011</b> ,		4
28	Energy-Water Meter: A Novel Solution for Groundwater Monitoring and Management <b>2011</b> ,		4
27	Bringing Environmental Benefits into Caspian Sea Negotiations for Resources Allocation: Cooperative Game Theory Insights <b>2012</b> ,		4



26	Are we ready for more dam removals in the United States?. <i>Environmental Research: Infrastructure and Sustainability</i> , <b>2021</b> , 1, 013001		4
25	Sea Level Rise Effect on Groundwater Rise and Stormwater Retention Pond Reliability. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 1129	3	3
24	System Archetypes in Water Resource Management <b>2018</b> ,		3
23	Sustainable Energy Planning with Respect to Resource Use Efficiency: Insights for the United States <b>2014</b> ,		3
22	New Finance-Based Portfolio Analysis Framework for Sustainable Energy Planning <b>2014</b> ,		3
21	Finding the best legal governance regime for the Caspian Sea through Multi-Criteria Decision-Making methods <b>2011</b> ,		3
20	Water allocation under climate change in the Qezelozan-Sefidrood Watershed <b>2012</b> ,		3
19	Stochastic Fuzzy Assessment for Managing Hydro-Environmental Systems under Uncertainty and Ambiguity <b>2012</b> ,		3
18	Bargaining Under Uncertainty: A Monte-Carlo Fallback Bargaining Method for Predicting the Likely Outcomes of Environmental Conflicts <b>2015</b> , 201-212		3
17	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
16	Stability Analysis of the Proposed Caspian Sea Governance Methods <b>2013</b> ,		2
15	A Systems Approach to Energy Efficiency Assessment <b>2013</b> ,		2
14	Strategic Multi-Criteria Decision Making under Uncertainty <b>2011</b> ,		2
13	Policy Implications of Institutional Arrangements for Sustainable Management of Common Pool Resources: The Case of Groundwater <b>2011</b> ,		2
12	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
11	Online Gaming for Understanding Agents' Behavior in Water-Sharing Problems <b>2014</b> ,		1
10	Risk-Based Levee System Design: Rational vs. Optimal <b>2015</b> ,		1
9	Climate Change Impacts on Rainfed Corn Production in Malawi's Lilongwe District <b>2014</b> ,		1

- 8 The value of cooperation in coastal aquifer management: Lessons for Oman **2014**, 1
- 7 Assessing the Stability of Social Planner Solutions in Multi-Participant Water Conflicts **2013**, 1
- 6 Water Transfer: A Fix that May Fail **2013**, 1
- 5 The Sacramento-San Joaquin Delta Conflict: Chicken or Prisoner's Dilemma? **2010**, 1
- 4 Water Transfer and Watershed Development: A System Dynamics Approach **2007**, 1
- 3 A Multi-attribute Assessment of Electricity Supply Options in Lebanon **2020**, 1-27 0
- 2 Beyond Carbon Emissions: A System of Systems Approach to Sustainable Energy Development in East Africa **2020**, 323-349
- 1 Dealing with Trade-offs in Sustainable Energy Planning: Insight for Indonesia **2020**, 243-266