

Mohamad I Hejazi

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

3,423
citations

136740

32
h-index

149479

56
g-index

73
all docs

73
docs citations

73
times ranked

3487
citing authors

#	ARTICLE	IF	CITATIONS
1	Implication of imposing fertilizer limitations on energy, agriculture, and land systems. <i>Journal of Environmental Management</i> , 2022, 305, 114391.	3.8	13
2	Unintended consequences of climate change mitigation for African river basins. <i>Nature Climate Change</i> , 2022, 12, 187-192.	8.1	19
3	GCAM-USA v5.3_water_dispatch: integrated modeling of subnational US energy, water, and land systems within a global framework. <i>Geoscientific Model Development</i> , 2022, 15, 2533-2559.	1.3	10
4	How stable is the stabilization value of groundwater? Examining the behavioral and physical determinants. <i>Water Resources and Economics</i> , 2022, 38, 100195.	0.9	1
5	Power sector investment implications of climate impacts on renewable resources in Latin America and the Caribbean. <i>Nature Communications</i> , 2021, 12, 1276.	5.8	30
6	Evaluating the economic impact of water scarcity in a changing world. <i>Nature Communications</i> , 2021, 12, 1915.	5.8	174
7	Integrated energy-water-land nexus planning in the Colorado River Basin (Argentina). <i>Regional Environmental Change</i> , 2021, 21, 1.	1.4	12
8	The future evolution of energy-water-agriculture interconnectivity across the US. <i>Environmental Research Letters</i> , 2021, 16, 065010.	2.2	11
9	The Implications of Global Change for the Co-Evolution of Argentina's Integrated Energy-Water-Land Systems. <i>Earth's Future</i> , 2021, 9, e2020EF001970.	2.4	15
10	Agricultural impacts of sustainable water use in the United States. <i>Scientific Reports</i> , 2021, 11, 17917.	1.6	14
11	Assessing the future of global energy-for-water. <i>Environmental Research Letters</i> , 2021, 16, 024031.	2.2	11
12	Water-energy-food nexus in India: A critical review. <i>Energy and Climate Change</i> , 2021, 2, 100060.	2.2	11
13	Future evolution of virtual water trading in the United States electricity sector. <i>Environmental Research Letters</i> , 2021, 16, 124010.	2.2	3
14	Humans drive future water scarcity changes across all Shared Socioeconomic Pathways. <i>Environmental Research Letters</i> , 2020, 15, 014007.	2.2	50
15	Cooperation or rivalry? Impact of alternative development pathways on India's long-term electricity generation and associated water demands. <i>Energy</i> , 2020, 192, 116708.	4.5	16
16	Global land use for 2015-2100 at 0.05° resolution under diverse socioeconomic and climate scenarios. <i>Scientific Data</i> , 2020, 7, 320.	2.4	89
17	Future western U.S. building electricity consumption in response to climate and population drivers: A comparative study of the impact of model structure. <i>Energy</i> , 2020, 208, 118312.	4.5	8
18	Impacts of climate change on energy systems in global and regional scenarios. <i>Nature Energy</i> , 2020, 5, 794-802.	19.8	180

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19	Future changes in the trading of virtual water. <i>Nature Communications</i> , 2020, 11, 3632.	5.8	54
20	100 years of data is not enough to establish reliable drought thresholds. <i>Journal of Hydrology X</i> , 2020, 7, 100052.	0.8	11
21	Integrated energy-water-land nexus planning to guide national policy: an example from Uruguay. <i>Environmental Research Letters</i> , 2020, 15, 094014.	2.2	24
22	River Regulation Alleviates the Impacts of Climate Change on U.S. Thermoelectricity Production. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031618.	1.2	8
23	Metis – A Tool to Harmonize and Analyze Multi-Sectoral Data and Linkages at Variable Spatial Scales. <i>Journal of Open Research Software</i> , 2020, 8, 10.	2.7	12
24	Representing power sector detail and flexibility in a multi-sector model. <i>Energy Strategy Reviews</i> , 2019, 26, 100411.	3.3	13
25	Integrated Solutions for the Water-Energy-Land Nexus: Are Global Models Rising to the Challenge?. <i>Water (Switzerland)</i> , 2019, 11, 2223.	1.2	24
26	A Multilayer Reservoir Thermal Stratification Module for Earth System Models. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 3265-3283.	1.3	12
27	Influence of Groundwater Extraction Costs and Resource Depletion Limits on Simulated Global Nonrenewable Water Withdrawals Over the Twenty-First Century. <i>Earth's Future</i> , 2019, 7, 123-135.	2.4	61
28	The Paris pledges and the energy-water-land nexus in Latin America: Exploring implications of greenhouse gas emission reductions. <i>PLoS ONE</i> , 2019, 14, e0215013.	1.1	20
29	Global agricultural green and blue water consumption under future climate and land use changes. <i>Journal of Hydrology</i> , 2019, 574, 242-256.	2.3	63
30	GCAM v5.1: representing the linkages between energy, water, land, climate, and economic systems. <i>Geoscientific Model Development</i> , 2019, 12, 677-698.	1.3	211
31	A pathway of global food supply adaptation in a world with increasingly constrained groundwater. <i>Science of the Total Environment</i> , 2019, 673, 165-176.	3.9	37
32	Implications of water constraints on electricity capacity expansion in the United States. <i>Nature Sustainability</i> , 2019, 2, 206-213.	11.5	33
33	Climate impacts on hydropower in Colombia: A multi-model assessment of power sector adaptation pathways. <i>Energy Policy</i> , 2019, 128, 179-188.	4.2	51
34	<i>gcamdata</i>: An R Package for Preparation, Synthesis, and Tracking of Input Data for the GCAM Integrated Human-Earth Systems Model. <i>Journal of Open Research Software</i> , 2019, 7, 6.	2.7	17
35	A Global Hydrologic Framework to Accelerate Scientific Discovery. <i>Journal of Open Research Software</i> , 2019, 7, 1.	2.7	18
36	Water for electricity in India: A multi-model study of future challenges and linkages to climate change mitigation. <i>Applied Energy</i> , 2018, 210, 673-684.	5.1	59

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37	Impacts of climate change, policy and Water-Energy-Food nexus on hydropower development. <i>Renewable Energy</i> , 2018, 116, 827-834.	4.3	108
38	A New Global Storageâ€Areaâ€Depth Data Set for Modeling Reservoirs in Land Surface and Earth System Models. <i>Water Resources Research</i> , 2018, 54, 10,372.	1.7	35
39	Interactions between climate change mitigation and adaptation: The case of hydropower in Brazil. <i>Energy</i> , 2018, 164, 1161-1177.	4.5	45
40	A Holistic View of Water Management Impacts on Future Droughts: A Global Multimodel Analysis. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 5947-5972.	1.2	25
41	Reconstruction of global gridded monthly sectoral water withdrawals for 1971â€2010 and analysis of their spatiotemporal patterns. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 2117-2133.	1.9	106
42	â€Hydrological emulator for global applications â€ HE v1.0.0. <i>Geoscientific Model Development</i> , 2018, 11, 1077-1092.	1.3	22
43	Water Sector Assumptions for the Shared Socioeconomic Pathways in an Integrated Modeling Framework. <i>Water Resources Research</i> , 2018, 54, 6423-6440.	1.7	40
44	Tethys â€ A Python Package for Spatial and Temporal Downscaling of Global Water Withdrawals. <i>Journal of Open Research Software</i> , 2018, 6, 9.	2.7	13
45	Effects of spatially distributed sectoral water management on the redistribution of water resources in an integrated water model. <i>Water Resources Research</i> , 2017, 53, 4253-4270.	1.7	30
46	Climate impacts on hydropower and consequences for global electricity supply investment needs. <i>Energy</i> , 2017, 141, 2081-2090.	4.5	108
47	Vulnerability of US thermoelectric power generation to climate change when incorporating state-level environmental regulations. <i>Nature Energy</i> , 2017, 2, .	19.8	74
48	Hydrological Drought in the Anthropocene: Impacts of Local Water Extraction and Reservoir Regulation in the U.S.. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 11,313.	1.2	58
49	Setting the System Boundaries of â€Energy for Waterâ€for Integrated Modeling. <i>Environmental Science & Technology</i> , 2016, 50, 8930-8931.	4.6	12
50	Global and Regional Evaluation of Energy for Water. <i>Environmental Science & Technology</i> , 2016, 50, 9736-9745.	4.6	78
51	Balancing global water availability and use at basin scale in an integrated assessment model. <i>Climatic Change</i> , 2016, 136, 217-231.	1.7	79
52	Sensitivity of future U.S. Water shortages to socioeconomic and climate drivers: a case study in Georgia using an integrated human-earth system modeling framework. <i>Climatic Change</i> , 2016, 136, 233-246.	1.7	11
53	Modeling stream temperature in the <sc>A</sc>nthropocene: An earth system modeling approach. <i>Journal of Advances in Modeling Earth Systems</i> , 2015, 7, 1661-1679.	1.3	29
54	21st century United States emissions mitigation could increase water stress more than the climate change it is mitigating. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 10635-10640.	3.3	128

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55	Water demands for electricity generation in the U.S.: Modeling different scenarios for the water-energy nexus. <i>Technological Forecasting and Social Change</i> , 2015, 94, 318-334.	6.2	88
56	The effects of climate sensitivity and carbon cycle interactions on mitigation policy stringency. <i>Climatic Change</i> , 2015, 131, 35-50.	1.7	4
57	Investigating the nexus of climate, energy, water, and land at decision-relevant scales: the Platform for Regional Integrated Modeling and Analysis (PRIMA). <i>Climatic Change</i> , 2015, 129, 573-588.	1.7	119
58	Climate mitigation policy implications for global irrigation water demand. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2015, 20, 389-407.	1.0	63
59	Incorporating Reanalysis-Based Short-Term Forecasts from a Regional Climate Model in an Irrigation Scheduling Optimization Problem. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2014, 140, 699-713.	1.3	25
60	Long-term global water projections using six socioeconomic scenarios in an integrated assessment modeling framework. <i>Technological Forecasting and Social Change</i> , 2014, 81, 205-226.	6.2	159
61	Influence of climate change mitigation technology on global demands of water for electricity generation. <i>International Journal of Greenhouse Gas Control</i> , 2013, 13, 112-123.	2.3	75
62	Scenarios of global municipal water-use demand projections over the 21st century. <i>Hydrological Sciences Journal</i> , 2013, 58, 519-538.	1.2	42
63	Value of Probabilistic Weather Forecasts: Assessment by Real-Time Optimization of Irrigation Scheduling. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2011, 137, 391-403.	1.3	56
64	Building more realistic reservoir optimization models using data mining – A case study of Shelbyville Reservoir. <i>Advances in Water Resources</i> , 2011, 34, 701-717.	1.7	40
65	Prediction of weekly nitrate-N fluctuations in a small agricultural watershed in Illinois. <i>Journal of Hydroinformatics</i> , 2010, 12, 251-261.	1.1	30
66	Impacts of Urbanization and Climate Variability on Floods in Northeastern Illinois. <i>Journal of Hydrologic Engineering - ASCE</i> , 2009, 14, 606-616.	0.8	102
67	Input variable selection for water resources systems using a modified minimum redundancy maximum relevance (mMRMR) algorithm. <i>Advances in Water Resources</i> , 2009, 32, 582-593.	1.7	78
68	The role of hydrologic information in reservoir operation – Learning from historical releases. <i>Advances in Water Resources</i> , 2008, 31, 1636-1650.	1.7	76
69	Calibrating a watershed simulation model involving human interference: an application of multi-objective genetic algorithms. <i>Journal of Hydroinformatics</i> , 2008, 10, 97-111.	1.1	24
70	Changing estimates of design precipitation in Northeastern Illinois: Comparison between different sources and sensitivity analysis. <i>Journal of Hydrology</i> , 2007, 347, 211-222.	2.3	32
71	Retrieval of irrigated and rainfed crop data using a general maximum entropy approach. <i>Irrigation Science</i> , 2007, 25, 325-338.	1.3	6