

Mazdak Arabi

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

3,663
citations

172457

29
h-index

133252

59
g-index

69
all docs

69
docs citations

69
times ranked

4146
citing authors

#	ARTICLE	IF	CITATIONS
1	Correlation Between Upstream Human Activities and Riverine Antibiotic Resistance Genes. Environmental Science & Technology, 2012, 46, 11541-11549.	10.0	435
2	Representation of agricultural conservation practices with SWAT. Hydrological Processes, 2008, 22, 3042-3055.	2.6	303
3	Uncertainty in Flood Inundation Mapping: Current Issues and Future Directions. Journal of Hydrologic Engineering - ASCE, 2008, 13, 608-620.	1.9	215
4	Tracking Antibiotic Resistance Genes in the South Platte River Basin Using Molecular Signatures of Urban, Agricultural, And Pristine Sources. Environmental Science & Technology, 2010, 44, 7397-7404.	10.0	202
5	A Hydrologic/Water Quality Model Application. Journal of the American Water Resources Association, 2007, 43, 1223-1236.	2.4	190
6	Assessing regional-scale spatio-temporal patterns of groundwater-surface water interactions using a coupled SWAT-MODFLOW model. Hydrological Processes, 2016, 30, 4420-4433.	2.6	183
7	Cost-effective allocation of watershed management practices using a genetic algorithm. Water Resources Research, 2006, 42, .	4.2	171
8	A probabilistic approach for analysis of uncertainty in the evaluation of watershed management practices. Journal of Hydrology, 2007, 333, 459-471.	5.4	160
9	ROLE OF WATERSHED SUBDIVISION ON MODELING THE EFFECTIVENESS OF BEST MANAGEMENT PRACTICES WITH SWAT. Journal of the American Water Resources Association, 2006, 42, 513-528.	2.4	149
10	A framework for propagation of uncertainty contributed by parameterization, input data, model structure, and calibration/validation data in watershed modeling. Environmental Modelling and Software, 2014, 54, 211-221.	4.5	124
11	Application of a Multi-Objective Optimization Method to Provide Least Cost Alternatives for NPS Pollution Control. Environmental Management, 2011, 48, 448-461.	2.7	108
12	Global sensitivity and uncertainty analysis of a dynamic agroecosystem model under different irrigation treatments. Ecological Modelling, 2012, 231, 113-125.	2.5	107
13	Coupled SWAT-MODFLOW model for large-scale mixed agro-urban river basins. Environmental Modelling and Software, 2019, 115, 200-210.	4.5	88
14	A smartphone app to extend use of a cloud-based irrigation scheduling tool. Computers and Electronics in Agriculture, 2015, 111, 127-130.	7.7	70
15	Climate Change and Changes in Compound Coastal-Riverine Flooding Hazard Along the U.S. Coasts. Earth's Future, 2021, 9, e2021EF002055.	6.3	66
16	Comprehensive simulation of nitrate transport in coupled surface-subsurface hydrologic systems using the linked SWAT-MODFLOW-RT3D model. Environmental Modelling and Software, 2019, 122, 104242.	4.5	62
17	A Coherent Statistical Model for Coastal Flood Frequency Analysis Under Nonstationary Sea Level Conditions. Earth's Future, 2019, 7, 162-177.	6.3	56
18	Metagenomic profiling of historic Colorado Front Range flood impact on distribution of riverine antibiotic resistance genes. Scientific Reports, 2016, 6, 38432.	3.3	55

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19	The Role of Interior Watershed Processes in Improving Parameter Estimation and Performance of Watershed Models. <i>Journal of Environmental Quality</i> , 2014, 43, 1601-1613.	2.0	54
20	The Relationship between Land Use and Vulnerability to Nitrogen and Phosphorus Pollution in an Urban Watershed. <i>Journal of Environmental Quality</i> , 2017, 46, 113-122.	2.0	47
21	Toward improved calibration of watershed models: Multisite multiobjective measures of information. <i>Environmental Modelling and Software</i> , 2014, 59, 135-145.	4.5	46
22	Phosphorus in the river corridor. <i>Earth-Science Reviews</i> , 2016, 158, 65-88.	9.1	43
23	A probabilistic appraisal of rainfall-runoff modeling approaches within SWAT in mixed land use watersheds. <i>Journal of Hydrology</i> , 2018, 564, 476-489.	5.4	41
24	Multiobjective sensitivity analysis of sediment and nitrogen processes with a watershed model. <i>Water Resources Research</i> , 2007, 43, .	4.2	39
25	A geospatially-enabled web tool for urban water demand forecasting and assessment of alternative urban water management strategies. <i>Environmental Modelling and Software</i> , 2017, 97, 213-228.	4.5	38
26	Modeling stream flow and sediment yield using the SWAT model: a case study of Ankara River basin, Turkey. <i>Physical Geography</i> , 2018, 39, 264-289.	1.4	38
27	A mixed discrete-continuous variable multiobjective genetic algorithm for targeted implementation of nonpoint source pollution control practices. <i>Water Resources Research</i> , 2013, 49, 8344-8356.	4.2	32
28	Impact of climate change on diffuse pollutant fluxes at the watershed scale. <i>Hydrological Processes</i> , 2014, 28, 1962-1972.	2.6	31
29	Rainwater catchment system design using simulated future climate data. <i>Journal of Hydrology</i> , 2015, 529, 1798-1809.	5.4	31
30	Assessing Shifts in Regional Hydroclimatic Conditions of U.S. River Basins in Response to Climate Change over the 21st Century. <i>Earth's Future</i> , 2020, 8, e2020EF001657.	6.3	31
31	Assessing the hydrologic response to wildfires in mountainous regions. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 2527-2550.	4.9	29
32	Appraising climate change impacts on future water resources and agricultural productivity in agro-urban river basins. <i>Science of the Total Environment</i> , 2021, 788, 147717.	8.0	28
33	Evaluating the effect of conservation motivations on residential water demand. <i>Journal of Environmental Management</i> , 2017, 196, 394-401.	7.8	24
34	Effects of Climate Change on Natural-Caused Fire Activity in Western U.S. National Forests. <i>Atmosphere</i> , 2021, 12, 981.	2.3	23
35	A Probabilistic Approach for Characterization of Sub-Annual Socioeconomic Drought Intensity-Duration-Frequency (IDF) Relationships in a Changing Environment. <i>Water (Switzerland)</i> , 2020, 12, 1522.	2.7	22
36	Policy Utopias for Nutrient Credit Trading Programs with Nonpoint Sources. <i>Journal of the American Water Resources Association</i> , 2017, 53, 514-520.	2.4	21

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37	A Bayesian total uncertainty analysis framework for assessment of management practices using watershed models. <i>Environmental Modelling and Software</i> , 2018, 108, 240-252.	4.5	21
38	Nutrient control in water bodies: A systems approach. <i>Journal of Environmental Quality</i> , 2020, 49, 517-533.	2.0	21
39	Migration of Multi-tier Applications to Infrastructure-as-a-Service Clouds: An Investigation Using Kernel-Based Virtual Machines. , 2011, , .		20
40	An economic inquisition of water quality trading programs, with a case study of Jordan Lake, NC. <i>Journal of Environmental Management</i> , 2017, 193, 483-490.	7.8	20
41	Analysis of parameter uncertainty in model simulations of irrigated and rainfed agroecosystems. <i>Environmental Modelling and Software</i> , 2020, 126, 104642.	4.5	19
42	Performance Modeling to Support Multi-tier Application Deployment to Infrastructure-as-a-Service Clouds. , 2012, , .		17
43	Multisite-multivariable sensitivity analysis of distributed watershed models: Enhancing the perceptions from computationally frugal methods. <i>Ecological Modelling</i> , 2014, 279, 54-67.	2.5	17
44	Impacts of Climate Change on Hydroclimatic Conditions of U.S. National Forests and Grasslands. <i>Forests</i> , 2021, 12, 139.	2.1	17
45	Development and Application of a SWMM-Based Simulation Model for Municipal Scale Hydrologic Assessments. <i>Water (Switzerland)</i> , 2021, 13, 1644.	2.7	15
46	Vulnerability to Water Shortage Under Current and Future Water Supplyâ€Demand Conditions Across U.S. River Basins. <i>Earth's Future</i> , 2021, 9, e2021EF002278.	6.3	14
47	Projections of Freshwater Use in the United States Under Climate Change. <i>Earth's Future</i> , 2022, 10, .	6.3	13
48	Evaluation of Optimization Algorithms to Adjust Efficiency Curves for Hydroelectric Generating Units. <i>Journal of Energy Engineering - ASCE</i> , 2012, 138, 172-178.	1.9	12
49	Global sensitivity analysis of hydrologic processes in major snowâ€dominated mountainous river basins in Colorado. <i>Hydrological Processes</i> , 2014, 28, 3404-3418.	2.6	12
50	Application of Multicriteria Decision Analysis with A Priori Knowledge to Identify Optimal Nonpoint Source Pollution Control Plans. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2015, 141, .	2.6	12
51	Multisite Assessment of Hydrologic Processes in Snow-Dominated Mountainous River Basins in Colorado Using a Watershed Model. <i>Journal of Hydrologic Engineering - ASCE</i> , 2015, 20, .	1.9	10
52	Monitoring Design for Assessing Compliance with Numeric Nutrient Standards for Rivers and Streams Using Geospatial Variables. <i>Journal of Environmental Quality</i> , 2014, 43, 1713-1724.	2.0	8
53	Service Isolation vs. Consolidation: Implications for IaaS Cloud Application Deployment. , 2013, , .		7
54	A synthetic water distribution network model for urban resilience. <i>Sustainable and Resilient Infrastructure</i> , 2022, 7, 333-347.	2.8	7

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55	Characterization of Municipal Water Uses in the Contiguous United States. <i>Water Resources Research</i> , 2021, 57, e2020WR028627.	4.2	7
56	Complements of the house: Estimating demand-side linkages between residential water and electricity. <i>Water Resources and Economics</i> , 2020, 29, 100140.	2.2	6
57	Fully distributed versus semi-distributed process simulation of a highly managed watershed with mixed land use and irrigation return flow. <i>Environmental Modelling and Software</i> , 2021, 140, 105000.	4.5	6
58	Dynamic Scaling for Service Oriented Applications: Implications of Virtual Machine Placement on IaaS Clouds. , 2014, , .		5
59	Relative Phosphorus Load Inputs from Wastewater Treatment Plants in a Northern Colorado Watershed. <i>Journal of Environmental Quality</i> , 2013, 42, 497-506.	2.0	4
60	The impact of relative individual ecosystem demand on stacking ecosystem credit markets. <i>Ecosystem Services</i> , 2018, 29, 137-144.	5.4	4
61	Assessing tradeoffs of strategies for urban water conservation and fit for purpose water. <i>Journal of Hydrology X</i> , 2020, 8, 100059.	1.6	4
62	Assessing cost-effective nutrient removal solutions in the urban water system. <i>Journal of Environmental Quality</i> , 2020, 49, 534-544.	2.0	1
63	Appraisal of Steady-State Stormwater Control Measure Pollutant Removal Models within a Dynamic Stormwater Routing Framework. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2022, 148, .	2.6	1