

# Ximing Cai

## List of Publications by Citations

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145  
papers

5,757  
citations

46  
h-index

71  
g-index

162  
ext. papers

6,745  
ext. citations

5.2  
avg. IF

6.34  
L-index

#	Paper	IF	Citations
145	Land availability for biofuel production. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 334-9	10.3	292
144	Solving nonlinear water management models using a combined genetic algorithm and linear programming approach. <i>Advances in Water Resources</i> , <b>2001</b> , 24, 667-676	4.7	207
143	Integrated Hydrologic-Agronomic-Economic Model for River Basin Management. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2003</b> , 129, 4-17	2.8	183
142	The future of water resources systems analysis: Toward a scientific framework for sustainable water management. <i>Water Resources Research</i> , <b>2015</b> , 51, 6110-6124	5.4	163
141	Water stress, water transfer and social equity in Northern China--implications for policy reforms. <i>Journal of Environmental Management</i> , <b>2008</b> , 87, 14-25	7.9	153
140	Understanding and managing the food-energy-water nexus Opportunities for water resources research. <i>Advances in Water Resources</i> , <b>2018</b> , 111, 259-273	4.7	150
139	Sustainability analysis for irrigation water management in the Aral Sea region. <i>Agricultural Systems</i> , <b>2003</b> , 76, 1043-1066	6.1	142
138	Hydrological Cycle in the Heihe River Basin and Its Implication for Water Resource Management in Endorheic Basins. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 890-914	4.4	120
137	Hedging rule for reservoir operations: 1. A theoretical analysis. <i>Water Resources Research</i> , <b>2008</b> , 44,	5.4	119
136	Reducing Food Loss and Waste to Enhance Food Security and Environmental Sustainability. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 8432-43	10.3	114
135	A framework for sustainability analysis in water resources management and application to the Syr Darya Basin. <i>Water Resources Research</i> , <b>2002</b> , 38, 21-1-21-14	5.4	109
134	Hydrology: The interdisciplinary science of water. <i>Water Resources Research</i> , <b>2015</b> , 51, 4409-4430	5.4	108
133	Effect of streamflow forecast uncertainty on real-time reservoir operation. <i>Advances in Water Resources</i> , <b>2011</b> , 34, 495-504	4.7	108
132	Climate change impact on meteorological, agricultural, and hydrological drought in central Illinois. <i>Water Resources Research</i> , <b>2011</b> , 47,	5.4	107
131	Virtual groundwater transfers from overexploited aquifers in the United States. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 8561-6	11.5	104
130	Global Water Demand and Supply Projections. <i>Water International</i> , <b>2002</b> , 27, 159-169	2.4	104
129	Modeling Miscanthus in the soil and water assessment tool (SWAT) to simulate its water quality effects as a bioenergy crop. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 7138-44	10.3	100

128	Implementation of holistic water resources-economic optimization models for river basin management [Reflective experiences. <i>Environmental Modelling and Software</i> , <b>2008</b> , 23, 2-18	5.2	93
127	Biomass and biofuels in China: Toward bioenergy resource potentials and their impacts on the environment. <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 82, 2387-2400	16.2	91
126	Optional water development strategies for the Yellow River Basin: Balancing agricultural and ecological water demands. <i>Water Resources Research</i> , <b>2004</b> , 40,	5.4	87
125	An agent-based model of farmer decision-making and water quality impacts at the watershed scale under markets for carbon allowances and a second-generation biofuel crop. <i>Water Resources Research</i> , <b>2011</b> , 47,	5.4	79
124	Climate change impacts on global agricultural land availability. <i>Environmental Research Letters</i> , <b>2011</b> , 6, 014014	6.2	72
123	Identification of hydrologic indicators related to fish diversity and abundance: A data mining approach for fish community analysis. <i>Water Resources Research</i> , <b>2008</b> , 44,	5.4	71
122	Understanding the Role of Climate Characteristics in Drought Propagation. <i>Water Resources Research</i> , <b>2017</b> , 53, 9304-9329	5.4	68
121	Detecting gradual and abrupt changes in hydrological records. <i>Advances in Water Resources</i> , <b>2013</b> , 53, 33-44	4.7	68
120	Identifying effective forecast horizon for real-time reservoir operation under a limited inflow forecast. <i>Water Resources Research</i> , <b>2012</b> , 48,	5.4	68
119	Improved Dynamic Programming for Reservoir Operation Optimization with a Concave Objective Function. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2012</b> , 138, 590-596	2.8	67
118	Input variable selection for water resources systems using a modified minimum redundancy maximum relevance (mMRMR) algorithm. <i>Advances in Water Resources</i> , <b>2009</b> , 32, 582-593	4.7	61
117	State and parameter estimation of hydrologic models using the constrained ensemble Kalman filter. <i>Water Resources Research</i> , <b>2009</b> , 45,	5.4	61
116	Assessing interannual variability of evapotranspiration at the catchment scale using satellite-based evapotranspiration data sets. <i>Water Resources Research</i> , <b>2011</b> , 47,	5.4	60
115	A decentralized optimization algorithm for multiagent system-based watershed management. <i>Water Resources Research</i> , <b>2009</b> , 45,	5.4	60
114	Crowdsourcing Methods for Data Collection in Geophysics: State of the Art, Issues, and Future Directions. <i>Reviews of Geophysics</i> , <b>2018</b> , 56, 698-740	23.1	60
113	The role of hydrologic information in reservoir operation [Learning from historical releases. <i>Advances in Water Resources</i> , <b>2008</b> , 31, 1636-1650	4.7	59
112	Deriving multiple near-optimal solutions to deterministic reservoir operation problems. <i>Water Resources Research</i> , <b>2011</b> , 47,	5.4	58
111	Hydropower versus irrigation in analysis of global patterns. <i>Environmental Research Letters</i> , <b>2017</b> , 12, 034006	6.2	56

110	Detecting human interferences to low flows through base flow recession analysis. <i>Water Resources Research</i> , <b>2009</b> , 45,	5.4	56
109	Valuing Fisheries and Wetlands Using Integrated Economic-Hydrologic Modeling Mekong River Basin. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2006</b> , 132, 480-487	2.8	56
108	Yellow River basin: living with scarcity. <i>Water International</i> , <b>2010</b> , 35, 681-701	2.4	55
107	Hedging rule for reservoir operations: 2. A numerical model. <i>Water Resources Research</i> , <b>2008</b> , 44,	5.4	53
106	An analytical framework for flood water conservation considering forecast uncertainty and acceptable risk. <i>Water Resources Research</i> , <b>2015</b> , 51, 4702-4726	5.4	52
105	Substitution between water and other agricultural inputs: Implications for water conservation in a River Basin context. <i>Ecological Economics</i> , <b>2008</b> , 66, 38-50	5.6	52
104	Carbon consequences and agricultural implications of growing biofuel crops on marginal agricultural lands in China. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 10765-72	10.3	51
103	Optimality conditions for a two-stage reservoir operation problem. <i>Water Resources Research</i> , <b>2011</b> , 47,	5.4	50
102	On the role of individuals in models of coupled human and natural systems: Lessons from a case study in the Republican River Basin. <i>Environmental Modelling and Software</i> , <b>2017</b> , 92, 1-16	5.2	47
101	Revealing the water-energy-food nexus in the Upper Yellow River Basin through multi-objective optimization for reservoir system. <i>Science of the Total Environment</i> , <b>2019</b> , 682, 1-18	10.2	47
100	Irrigation Scheduling Role of Weather Forecasting and Farmers Behavior. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2009</b> , 135, 364-372	2.8	47
99	Comparative study of climate and human impacts on seasonal baseflow in urban and agricultural watersheds. <i>Geophysical Research Letters</i> , <b>2010</b> , 37, n/a-n/a	4.9	43
98	Decentralized Optimization Method for Water Allocation Management in the Yellow River Basin. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2012</b> , 138, 313-325	2.8	41
97	An overview of water reallocation and the barriers to its implementation. <i>Wiley Interdisciplinary Reviews: Water</i> , <b>2016</b> , 3, 658-677	5.7	41
96	Climatic and terrestrial storage control on evapotranspiration temporal variability: Analysis of river basins around the world. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 185-195	4.9	40
95	Strategic Planning for Drought Mitigation under Climate Change. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2015</b> , 141, 04015004	2.8	37
94	Assessing the temporal variance of evapotranspiration considering climate and catchment storage factors. <i>Advances in Water Resources</i> , <b>2015</b> , 79, 51-60	4.7	37
93	Watershed System Model: The Essentials to Model Complex Human-Nature System at the River Basin Scale. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 3019-3034	4.4	37

92	Assessing the regional variability of GCM simulations. <i>Geophysical Research Letters</i> , <b>2009</b> , 36, n/a-n/a	4.9	36
91	Determining forecast and decision horizons for reservoir operations under hedging policies. <i>Water Resources Research</i> , <b>2008</b> , 44,	5.4	36
90	Irrigation technology choices under hydrologic uncertainty: A case study from Maipo River Basin, Chile. <i>Water Resources Research</i> , <b>2004</b> , 40,	5.4	36
89	Value of Probabilistic Weather Forecasts: Assessment by Real-Time Optimization of Irrigation Scheduling. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2011</b> , 137, 391-403	2.8	35
88	Exploring the Role of Social Media and Individual Behaviors in Flood Evacuation Processes: An Agent-Based Modeling Approach. <i>Water Resources Research</i> , <b>2017</b> , 53, 9164-9180	5.4	34
87	Climate change impacts on global agricultural water deficit. <i>Geophysical Research Letters</i> , <b>2013</b> , 40, 11114-11117	4.17	34
86	Calibrating Holistic Water Resources Economic Models. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2006</b> , 132, 414-423	2.8	33
85	A reflection on the first 50 years of Water Resources Research. <i>Water Resources Research</i> , <b>2015</b> , 51, 7829-7837	5.4	32
84	Robust stochastic optimization for reservoir operation. <i>Water Resources Research</i> , <b>2015</b> , 51, 409-429	5.4	32
83	Reservoir Reoperation for Fish Ecosystem Restoration Using Daily Inflows—Case Study of Lake Shelbyville. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2011</b> , 137, 470-480	2.8	32
82	Building more realistic reservoir optimization models using data mining [A case study of Shelbyville Reservoir. <i>Advances in Water Resources</i> , <b>2011</b> , 34, 701-717	4.7	31
81	Optimal estimation of irrigation schedule [An example of quantifying human interferences to hydrologic processes. <i>Advances in Water Resources</i> , <b>2007</b> , 30, 1844-1857	4.7	29
80	Design of a web-based application of the coupled multi-agent system model and environmental model for watershed management analysis using Hadoop. <i>Environmental Modelling and Software</i> , <b>2015</b> , 70, 149-162	5.2	28
79	Downgrading recent estimates of land available for biofuel production. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 1688-94	10.3	27
78	An integrated modeling framework for exploring flow regime and water quality changes with increasing biofuel crop production in the U.S. Corn Belt. <i>Water Resources Research</i> , <b>2014</b> , 50, 9385-9404	5.4	26
77	Bioenergy crop productivity and potential climate change mitigation from marginal lands in the United States: An ecosystem modeling perspective. <i>GCB Bioenergy</i> , <b>2015</b> , 7, 1211-1221	5.6	26
76	Evaluating the impacts of farmers' behaviors on a hypothetical agricultural water market based on double auction. <i>Water Resources Research</i> , <b>2017</b> , 53, 4053-4072	5.4	24
75	Assessing the value of seasonal climate forecast information through an end-to-end forecasting framework: Application to U.S. 2012 drought in central Illinois. <i>Water Resources Research</i> , <b>2014</b> , 50, 6592-6609	5.4	24

74	Multiobjective hedging rules for flood water conservation. <i>Water Resources Research</i> , <b>2017</b> , 53, 1963-1984	4.1	23
73	Improved dynamic programming for parallel reservoir system operation optimization. <i>Advances in Water Resources</i> , <b>2019</b> , 131, 103373	4.7	23
72	Balancing agricultural and environmental water needs in China: alternative scenarios and policy options. <i>Water Policy</i> , <b>2007</b> , 9, 95-108	1.6	23
71	Spatial and temporal patterns of drought in the Continental U.S. during the past century. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 6294-6303	4.9	22
70	Impacts of climate change on agricultural water management: a review. <i>Wiley Interdisciplinary Reviews: Water</i> , <b>2015</b> , 2, 439-455	5.7	21
69	Fifty years of Water Resources Research: Legacy and perspectives for the science of hydrology. <i>Water Resources Research</i> , <b>2015</b> , 51, 6797-6803	5.4	20
68	Agricultural water productivity assessment for the Yellow River Basin. <i>Agricultural Water Management</i> , <b>2011</b> , 98, 1297-1306	5.9	20
67	Is water shortage risk decreased at the expense of deteriorating water quality in a large water supply reservoir?. <i>Water Research</i> , <b>2019</b> , 165, 114984	12.5	19
66	Managing Multiple Mandates: A System of Systems Model to Analyze Strategies for Producing Cellulosic Ethanol and Reducing Riverine Nitrate Loads in the Upper Mississippi River Basin. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 11932-40	10.3	19
65	System of Systems Model for Analysis of Biofuel Development. <i>Journal of Infrastructure Systems</i> , <b>2015</b> , 21, 04014050	2.9	17
64	Decision support for integrated river basin management—Scientific research challenges. <i>Science China Earth Sciences</i> , <b>2015</b> , 58, 16-24	4.6	17
63	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> , <b>2014</b> , 140, 699-713	2.8	17
62	Modelling infrastructure interdependencies, resiliency and sustainability. <i>International Journal of Critical Infrastructures</i> , <b>2016</b> , 12, 4	1	16
61	Impacts of Human Behavioral Heterogeneity on the Benefits of Probabilistic Flood Warnings: An Agent-Based Modeling Framework. <i>Journal of the American Water Resources Association</i> , <b>2017</b> , 53, 316-332	3.1	15
60	Determining Inflow Forecast Horizon for Reservoir Operation. <i>Water Resources Research</i> , <b>2019</b> , 55, 4066-4081	4.8	15
59	Global sensitivity analysis for large-scale socio-hydrological models using Hadoop. <i>Environmental Modelling and Software</i> , <b>2015</b> , 73, 231-243	5.2	15
58	Policies and instruments affecting water use for bioenergy production. <i>Biofuels, Bioproducts and Biorefining</i> , <b>2011</b> , 5, 431-444	5.3	15
57	Restoration of Pastureland Ecosystems: Case Study of Western Inner Mongolia. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2005</b> , 131, 420-430	2.8	15

56	Development of reservoir operation functions in SWAT+ for national environmental assessments. <i>Journal of Hydrology</i> , <b>2020</b> , 583, 124556	6	15
55	Calibrating a watershed simulation model involving human interference: an application of multi-objective genetic algorithms. <i>Journal of Hydroinformatics</i> , <b>2008</b> , 10, 97-111	2.6	14
54	Drought Propagation in Contiguous U.S. Watersheds: A Process-Based Understanding of the Role of Climate and Watershed Properties. <i>Water Resources Research</i> , <b>2020</b> , 56, e2020WR027755	5.4	14
53	The Interplay Between Bioenergy Grass Production and Water Resources in the United States of America. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 3010-9	10.3	14
52	Machine learning based estimation of land productivity in the contiguous US using biophysical predictors. <i>Environmental Research Letters</i> , <b>2020</b> , 15, 074013	6.2	13
51	Some implications of biofuel development for engineering infrastructures in the United States. <i>Biofuels, Bioproducts and Biorefining</i> , <b>2011</b> , 5, 581-592	5.3	13
50	A maximum entropy method for combining AOGCMs for regional intra-year climate change assessment. <i>Climatic Change</i> , <b>2007</b> , 82, 411-435	4.5	13
49	Reservoir Operation with Combined Natural Inflow and Controlled Inflow through Interbasin Transfer: Biliu Reservoir in Northeastern China. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2016</b> , 142, 05015009	2.8	12
48	Combining human and machine intelligence to derive agents behavioral rules for groundwater irrigation. <i>Advances in Water Resources</i> , <b>2017</b> , 109, 29-40	4.7	12
47	Redefining marginal land for bioenergy crop production. <i>GCB Bioenergy</i> , <b>2021</b> , 13, 1590-1609	5.6	12
46	Converting UN Sustainable Development Goals (SDGs) to Decision-Making Objectives and Implementation Options at the River Basin Scale. <i>Sustainability</i> , <b>2018</b> , 10, 1056	3.6	11
45	Exploring spatial heterogeneity and temporal dynamics of human-hydrological interactions in large river basins with intensive agriculture: A tightly coupled, fully integrated modeling approach. <i>Journal of Hydrology</i> , <b>2020</b> , 591, 125313	6	11
44	Water demand predictions for megacities: system dynamics modeling and implications. <i>Water Policy</i> , <b>2018</b> , 20, 53-76	1.6	11
43	Evaluation of the Stationarity Assumption for Meteorological Drought Risk Estimation at the Multidecadal Scale in Contiguous United States. <i>Water Resources Research</i> , <b>2019</b> , 55, 5074	5.4	10
42	Agronomic and Stream Nitrate Load Responses to Incentives for Bioenergy Crop Cultivation and Reductions of Carbon Emissions and Fertilizer Use. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2014</b> , 140, 112-120	2.8	10
41	Quantifying Water Scarcity in Northern China Within the Context of Climatic and Societal Changes and South-to-North Water Diversion. <i>Earth's Future</i> , <b>2020</b> , 8, e2020EF001492	7.9	9
40	Special Issue on the Role of Systems Analysis in Watershed Management. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2013</b> , 139, 461-463	2.8	9
39	The Food-Energy-Water Nexus: A Framework to Address Sustainable Development in the Tropics. <i>Tropical Conservation Science</i> , <b>2017</b> , 10, 194008291772066	1.4	8

38	Influence of Internal Variability and Global Warming on Multidecadal Changes in Regional Drought Severity over the Continental United States. <i>Journal of Hydrometeorology</i> , <b>2019</b> , 20, 411-429	3.7	8
37	Potential future changes of terrestrial water storage based on climate projections by ensemble model simulations. <i>Advances in Water Resources</i> , <b>2020</b> , 142, 103635	4.7	8
36	Reply to comment by Jozsef Szilagyi on Assessing interannual variability of evapotranspiration at the catchment scale using satellite-based evapotranspiration data sets <i>Water Resources Research</i> , <b>2012</b> , 48,	5.4	8
35	Avoiding Decline: Fostering Resilience and Sustainability in Midsize Cities. <i>Sustainability</i> , <b>2016</b> , 8, 844	3.6	8
34	Modeling Framework for Reservoir Capacity Planning Accounting for Fish Migration. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2020</b> , 146, 04020006	2.8	7
33	Importance of Natural and Anthropogenic Environmental Factors to Fish Communities of the Fox River in Illinois. <i>Environmental Management</i> , <b>2016</b> , 57, 389-411	3.1	7
32	Reward-Based Participant Management for Crowdsourcing Rainfall Monitoring: An Agent-Based Model Simulation. <i>Water Resources Research</i> , <b>2019</b> , 55, 8122-8141	5.4	7
31	Optimizing Operating Rules for a Reservoir System in Northern China Considering Ecological Flow Requirements and Water Use Priorities. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2020</b> , 146, 04020051	2.8	6
30	Parameter Estimation for Groundwater Models under Uncertain Irrigation Data. <i>Ground Water</i> , <b>2015</b> , 53, 614-25	2.4	6
29	Regional Drought Risk in the Contiguous United States. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2020GL092206	4.2	6
28	Hydrologic Observation, Model, and Theory Congruence on Evapotranspiration Variance: Diagnosis of Multiple Observations and Land Surface Models. <i>Water Resources Research</i> , <b>2018</b> , 54, 9074-9095	5.4	6
27	Evaluating Distributed Policies for Conjunctive Surface Water-Groundwater Management in Large River Basins: Water Uses Versus Hydrological Impacts. <i>Water Resources Research</i> , <b>2022</b> , 58,	5.4	5
26	Multidecadal Changes in Meteorological Drought Severity and Their Drivers in Mainland China. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 12937-12952	4.4	5
25	Developing an integrated technology-environment-economics model to simulate food-energy-water systems in Corn Belt watersheds. <i>Environmental Modelling and Software</i> , <b>2021</b> , 143, 105083	5.2	5
24	An Analytical Framework for Reservoir Operation With Combined Natural Inflow and Controlled Inflow. <i>Water Resources Research</i> , <b>2020</b> , 56, e2019WR025347	5.4	4
23	Feedback Between Reservoir Operation and Floodplain Development: Implications for Reservoir Benefits and Beneficiaries. <i>Water Resources Research</i> , <b>2020</b> , 56, e24524	5.4	4
22	Hierarchical Decision-Modeling Framework to Meet Environmental Objectives in Biofuel Development. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2018</b> , 144, 04018030	2.8	4
21	Understanding the Resilience of Soil Moisture Regimes. <i>Water Resources Research</i> , <b>2019</b> , 55, 7541-7563	5.4	4

20	Retrieval of irrigated and rainfed crop data using a general maximum entropy approach. <i>Irrigation Science</i> , <b>2007</b> , 25, 325-338	3.1	4
19	Comparative Study of AI-Based Methods Application of Analyzing Inflow and Infiltration in Sanitary Sewer Subcatchments. <i>Sustainability</i> , <b>2020</b> , 12, 6254	3.6	4
18	Real-time reservoir flood control operation enhanced by data assimilation. <i>Journal of Hydrology</i> , <b>2021</b> , 598, 126426	6	4
17	Solving the mystery of vanishing rivers in China. <i>National Science Review</i> , <b>2019</b> , 6, 1239-1246	10.8	4
16	Algorithm Design Based on Derived Operation Rules for a System of Reservoirs in Parallel. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2020</b> , 146, 04020024	2.8	3
15	Seasonal Risk Assessment of Water-Electricity Nexus Systems under Water Consumption Policy Constraint. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 3793-3802	10.3	3
14	Reexamination of Critical Period for Reservoir Design and Operation. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2009</b> , 135, 392-396	2.8	3
13	Farmers' heterogeneous perceptions of marginal land for biofuel crops in US Midwestern states considering biophysical and socioeconomic factors. <i>GCB Bioenergy</i> , <b>2021</b> , 13, 849-861	5.6	3
12	Exploring the impacts of the inequality of water permit allocation and farmers' behaviors on the performance of an agricultural water market. <i>Journal of Hydrology</i> , <b>2021</b> , 599, 126303	6	3
11	Mix of First- and Second-Generation Biofuels to Meet Multiple Environmental Objectives: Implications for Policy at a Watershed Scale. <i>Water Economics and Policy</i> , <b>2015</b> , 01, 1550006	0.8	2
10	Understanding Hydrological Cycle Dynamics Due to Changing Land Use and Land Cover: Congo Basin Case Study <b>2008</b> ,		2
9	Evaluating Long-Term Treatment Performance and Cost of Nutrient Removal at Water Resource Recovery Facilities under Stochastic Influent Characteristics Using Artificial Neural Networks as Surrogates for Plantwide Modeling. <i>ACS ES&amp;T Engineering</i> ,		2
8	Successive smoothing algorithm for solving large-scale optimization models with fixed cost. <i>Annals of Operations Research</i> , <b>2015</b> , 229, 475-500	3.2	1
7	Simulation and Optimization of a Constructed Wetland for Biomass Production and Nitrate Removal. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2014</b> , 140, 04014034	2.8	1
6	A modified response matrix method to approximate SWAT for computationally intense applications. <i>Environmental Modelling and Software</i> , <b>2022</b> , 148, 105269	5.2	1
5	Impact of Droughts on Water Supply in U.S. Watersheds: The Role of Renewable Surface and Groundwater Resources. <i>Earth's Future</i> , <b>2020</b> , 8, e2020EF001648	7.9	1
4	Online generic diagnostic reservoir operation tools. <i>Environmental Modelling and Software</i> , <b>2021</b> , 135, 104918	5.2	1
3	Linear vs. nonlinear (convex and concave) hedging rules for reservoir optimization operation. <i>Water Resources Research</i> , e2020WR029160	5.4	0

- 2 Automatic Quality Control of Crowdsourced Rainfall Data With Multiple Noises: A Machine Learning Approach. *Water Resources Research*, **2021**, 57, e2020WR029121 5.4 ○
- 1 New Considerations for a Reservoir Capacity Optimizer That Accounts for Failure Risks. *Journal of Water Resources Planning and Management - ASCE*, **2020**, 146, 06020003 2.8 ○