# Ximing Cai

## List of Publications by Year in Descending Order



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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 | Evaluating Distributed Policies for Conjunctive Surface Water-Groundwater Management in Large River Basins: Water Uses Versus Hydrological Impacts. *Water Resources Research*, **2022**, 58, | 5.4 | 5 |
| 144 | A modified response matrix method to approximate SWAT for computationally intense applications. *Environmental Modelling and Software*, **2022**, 148, 105269 | 5.2 | 1 |
| 143 | Automatic Quality Control of Crowdsourced Rainfall Data With Multiple Noises: A Machine Learning Approach. *Water Resources Research*, **2021**, 57, e2020WR029121 | 5.4 | 0 |
| 142 | Farmers' heterogeneous perceptions of marginal land for biofuel crops in US Midwestern states considering biophysical and socioeconomic factors. *GCB Bioenergy*, **2021**, 13, 849-861 | 5.6 | 3 |
| 141 | Real-time reservoir flood control operation enhanced by data assimilation. *Journal of Hydrology*, **2021**, 598, 126426 | 6 | 4 |
| 140 | Online generic diagnostic reservoir operation tools. *Environmental Modelling and Software*, **2021**, 135, 104918 | 5.2 | 1 |
| 139 | Regional Drought Risk in the Contiguous United States. *Geophysical Research Letters*, **2021**, 48, e2020GL092206 | 4.9 | 6 |
| 138 | Redefining marginal land for bioenergy crop production. *GCB Bioenergy*, **2021**, 13, 1590-1609 | 5.6 | 12 |
| 137 | Exploring the impacts of the inequality of water permit allocation and farmers□behaviors on the performance of an agricultural water market. *Journal of Hydrology*, **2021**, 599, 126303 | 6 | 3 |
| 136 | Developing an integrated technology-environment-economics model to simulate food-energy-water systems in Corn Belt watersheds. *Environmental Modelling and Software*, **2021**, 143, 105083 | 5.2 | 5 |
| 135 | Optimizing Operating Rules for a Reservoir System in Northern China Considering Ecological Flow Requirements and Water Use Priorities. *Journal of Water Resources Planning and Management - ASCE*, **2020**, 146, 04020051 | 2.8 | 6 |
| 134 | Potential future changes of terrestrial water storage based on climate projections by ensemble model simulations. *Advances in Water Resources*, **2020**, 142, 103635 | 4.7 | 8 |
| 133 | An Analytical Framework for Reservoir Operation With Combined Natural Inflow and Controlled Inflow. *Water Resources Research*, **2020**, 56, e2019WR025347 | 5.4 | 4 |
| 132 | Machine learning based estimation of land productivity in the contiguous US using biophysical predictors. *Environmental Research Letters*, **2020**, 15, 074013 | 6.2 | 13 |
| 131 | Algorithm Design Based on Derived Operation Rules for a System of Reservoirs in Parallel. *Journal of Water Resources Planning and Management - ASCE*, **2020**, 146, 04020024 | 2.8 | 3 |
| 130 | Feedback Between Reservoir Operation and Floodplain Development: Implications for Reservoir Benefits and Beneficiaries. *Water Resources Research*, **2020**, 56, e24524 | 5.4 | 4 |
| 129 | Seasonal Risk Assessment of Water-Electricity Nexus Systems under Water Consumption Policy Constraint. *Environmental Science & Technology*, **2020**, 54, 3793-3802 | 10.3 | 3 |

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| 128 | Quantifying Water Scarcity in Northern China Within the Context of Climatic and Societal Changes and South-to-North Water Diversion. *Earth's Future*, **2020**, 8, e2020EF001492 | 7.9 | 9 |
| 127 | Modeling Framework for Reservoir Capacity Planning Accounting for Fish Migration. *Journal of Water Resources Planning and Management - ASCE*, **2020**, 146, 04020006 | 2.8 | 7 |
| 126 | Development of reservoir operation functions in SWAT+ for national environmental assessments. *Journal of Hydrology*, **2020**, 583, 124556 | 6 | 15 |
| 125 | Impact of Droughts on Water Supply in U.S. Watersheds: The Role of Renewable Surface and Groundwater Resources. *Earth's Future*, **2020**, 8, e2020EF001648 | 7.9 | 1 |
| 124 | Exploring spatial heterogeneity and temporal dynamics of human-hydrological interactions in large river basins with intensive agriculture: A tightly coupled, fully integrated modeling approach. *Journal of Hydrology*, **2020**, 591, 125313 | 6 | 11 |
| 123 | Comparative Study of AI-Based Methods Application of Analyzing Inflow and Infiltration in Sanitary Sewer Subcatchments. *Sustainability*, **2020**, 12, 6254 | 3.6 | 4 |
| 122 | Drought Propagation in Contiguous U.S. Watersheds: A Process-Based Understanding of the Role of Climate and Watershed Properties. *Water Resources Research*, **2020**, 56, e2020WR027755 | 5.4 | 14 |
| 121 | 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 | 0 |
| 120 | Is water shortage risk decreased at the expense of deteriorating water quality in a large water supply reservoir?. *Water Research*, **2019**, 165, 114984 | 12.5 | 19 |
| 119 | Evaluation of the Stationarity Assumption for Meteorological Drought Risk Estimation at the Multidecadal Scale in Contiguous United States. *Water Resources Research*, **2019**, 55, 5074 | 5.4 | 10 |
| 118 | Revealing the water-energy-food nexus in the Upper Yellow River Basin through multi-objective optimization for reservoir system. *Science of the Total Environment*, **2019**, 682, 1-18 | 10.2 | 47 |
| 117 | Influence of Internal Variability and Global Warming on Multidecadal Changes in Regional Drought Severity over the Continental United States. *Journal of Hydrometeorology*, **2019**, 20, 411-429 | 3.7 | 8 |
| 116 | Determining Inflow Forecast Horizon for Reservoir Operation. *Water Resources Research*, **2019**, 55, 4066-4081 | 5.4 | 15 |
| 115 | Understanding the Resilience of Soil Moisture Regimes. *Water Resources Research*, **2019**, 55, 7541-7563 | 5.4 | 4 |
| 114 | Improved dynamic programming for parallel reservoir system operation optimization. *Advances in Water Resources*, **2019**, 131, 103373 | 4.7 | 23 |
| 113 | Reward-Based Participant Management for Crowdsourcing Rainfall Monitoring: An Agent-Based Model Simulation. *Water Resources Research*, **2019**, 55, 8122-8141 | 5.4 | 7 |
| 112 | Solving the mystery of vanishing rivers in China. *National Science Review*, **2019**, 6, 1239-1246 | 10.8 | 4 |
| 111 | Multidecadal Changes in Meteorological Drought Severity and Their Drivers in Mainland China. *Journal of Geophysical Research D: Atmospheres*, **2019**, 124, 12937-12952 | 4.4 | 5 |

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| 110 | Watershed System Model: The Essentials to Model Complex Human-Nature System at the River Basin Scale. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 3019-3034 | 4.4 | 37 |
| 109 | Hydrological Cycle in the Heihe River Basin and Its Implication for Water Resource Management in Endorheic Basins. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 890-914 | 4.4 | 120 |
| 108 | Biomass and biofuels in China: Toward bioenergy resource potentials and their impacts on the environment. *Renewable and Sustainable Energy Reviews*, **2018**, 82, 2387-2400 | 16.2 | 91 |
| 107 | Converting UN Sustainable Development Goals (SDGs) to Decision-Making Objectives and Implementation Options at the River Basin Scale. *Sustainability*, **2018**, 10, 1056 | 3.6 | 11 |
| 106 | Hierarchical Decision-Modeling Framework to Meet Environmental Objectives in Biofuel Development. *Journal of Water Resources Planning and Management - ASCE*, **2018**, 144, 04018030 | 2.8 | 4 |
| 105 | Water demand predictions for megacities: system dynamics modeling and implications. *Water Policy*, **2018**, 20, 53-76 | 1.6 | 11 |
| 104 | Understanding and managing the food-energy-water nexus □opportunities for water resources research. *Advances in Water Resources*, **2018**, 111, 259-273 | 4.7 | 150 |
| 103 | Crowdsourcing Methods for Data Collection in Geophysics: State of the Art, Issues, and Future Directions. *Reviews of Geophysics*, **2018**, 56, 698-740 | 23.1 | 60 |
| 102 | Hydrologic Observation, Model, and Theory Congruence on Evapotranspiration Variance: Diagnosis of Multiple Observations and Land Surface Models. *Water Resources Research*, **2018**, 54, 9074-9095 | 5.4 | 6 |
| 101 | On the role of individuals in models of coupled human and natural systems: Lessons from a case study in the Republican River Basin. *Environmental Modelling and Software*, **2017**, 92, 1-16 | 5.2 | 47 |
| 100 | Multiobjective hedging rules for flood water conservation. *Water Resources Research*, **2017**, 53, 1963-1981 | 5.4 | 23 |
| 99 | Hydropower versus irrigation□n analysis of global patterns. *Environmental Research Letters*, **2017**, 12, 034006 | 6.2 | 56 |
| 98 | Impacts of Human Behavioral Heterogeneity on the Benefits of Probabilistic Flood Warnings: An Agent-Based Modeling Framework. *Journal of the American Water Resources Association*, **2017**, 53, 316-332 | 2.1 | 15 |
| 97 | Evaluating the impacts of farmers' behaviors on a hypothetical agricultural water market based on double auction. *Water Resources Research*, **2017**, 53, 4053-4072 | 5.4 | 24 |
| 96 | Exploring the Role of Social Media and Individual Behaviors in Flood Evacuation Processes: An Agent-Based Modeling Approach. *Water Resources Research*, **2017**, 53, 9164-9180 | 5.4 | 34 |
| 95 | The Food□Energy□Water Nexus: A Framework to Address Sustainable Development in the Tropics. *Tropical Conservation Science*, **2017**, 10, 194008291772066 | 1.4 | 8 |
| 94 | Understanding the Role of Climate Characteristics in Drought Propagation. *Water Resources Research*, **2017**, 53, 9304-9329 | 5.4 | 68 |
| 93 | Combining human and machine intelligence to derive agents□behavioral rules for groundwater irrigation. *Advances in Water Resources*, **2017**, 109, 29-40 | 4.7 | 12 |

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| 92 | Reservoir Operation with Combined Natural Inflow and Controlled Inflow through Interbasin Transfer: Biliu Reservoir in Northeastern China. *Journal of Water Resources Planning and Management - ASCE*, **2016**, 142, 05015009 | 2.8 | 12 |
| 91 | Reducing Food Loss and Waste to Enhance Food Security and Environmental Sustainability. *Environmental Science & Technology*, **2016**, 50, 8432-43 | 10.3 | 114 |
| 90 | Spatial and temporal patterns of drought in the Continental U.S. during the past century. *Geophysical Research Letters*, **2016**, 43, 6294-6303 | 4.9 | 22 |
| 89 | Climatic and terrestrial storage control on evapotranspiration temporal variability: Analysis of river basins around the world. *Geophysical Research Letters*, **2016**, 43, 185-195 | 4.9 | 40 |
| 88 | Importance of Natural and Anthropogenic Environmental Factors to Fish Communities of the Fox River in Illinois. *Environmental Management*, **2016**, 57, 389-411 | 3.1 | 7 |
| 87 | Avoiding Decline: Fostering Resilience and Sustainability in Midsize Cities. *Sustainability*, **2016**, 8, 844 | 3.6 | 8 |
| 86 | An overview of water reallocation and the barriers to its implementation. *Wiley Interdisciplinary Reviews: Water*, **2016**, 3, 658-677 | 5.7 | 41 |
| 85 | The Interplay Between Bioenergy Grass Production and Water Resources in the United States of America. *Environmental Science & Technology*, **2016**, 50, 3010-9 | 10.3 | 14 |
| 84 | Modelling infrastructure interdependencies, resiliency and sustainability. *International Journal of Critical Infrastructures*, **2016**, 12, 4 | 1 | 16 |
| 83 | Strategic Planning for Drought Mitigation under Climate Change. *Journal of Water Resources Planning and Management - ASCE*, **2015**, 141, 04015004 | 2.8 | 37 |
| 82 | Hydrology: The interdisciplinary science of water. *Water Resources Research*, **2015**, 51, 4409-4430 | 5.4 | 108 |
| 81 | Assessing the temporal variance of evapotranspiration considering climate and catchment storage factors. *Advances in Water Resources*, **2015**, 79, 51-60 | 4.7 | 37 |
| 80 | Successive smoothing algorithm for solving large-scale optimization models with fixed cost. *Annals of Operations Research*, **2015**, 229, 475-500 | 3.2 | 1 |
| 79 | System of Systems Model for Analysis of Biofuel Development. *Journal of Infrastructure Systems*, **2015**, 21, 04014050 | 2.9 | 17 |
| 78 | Global sensitivity analysis for large-scale socio-hydrological models using Hadoop. *Environmental Modelling and Software*, **2015**, 73, 231-243 | 5.2 | 15 |
| 77 | Bioenergy crop productivity and potential climate change mitigation from marginal lands in the United States: An ecosystem modeling perspective. *GCB Bioenergy*, **2015**, 7, 1211-1221 | 5.6 | 26 |
| 76 | A reflection on the first 50 years of Water Resources Research. *Water Resources Research*, **2015**, 51, 7829-7837 | 5.4 | 32 |
| 75 | An analytical framework for flood water conservation considering forecast uncertainty and acceptable risk. *Water Resources Research*, **2015**, 51, 4702-4726 | 5.4 | 52 |

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| 74 | Mix of First- and Second-Generation Biofuels to Meet Multiple Environmental Objectives: Implications for Policy at a Watershed Scale. *Water Economics and Policy*, **2015**, 01, 1550006 | 0.8 | 2 |
| 73 | 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. *Environmental Science & Technology*, **2015**, 49, 11932-40 | 10.3 | 19 |
| 72 | Virtual groundwater transfers from overexploited aquifers in the United States. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 8561-6 | 11.5 | 104 |
| 71 | Parameter Estimation for Groundwater Models under Uncertain Irrigation Data. *Ground Water*, **2015**, 53, 614-25 | 2.4 | 6 |
| 70 | The future of water resources systems analysis: Toward a scientific framework for sustainable water management. *Water Resources Research*, **2015**, 51, 6110-6124 | 5.4 | 163 |
| 69 | Impacts of climate change on agricultural water management: a review. *Wiley Interdisciplinary Reviews: Water*, **2015**, 2, 439-455 | 5.7 | 21 |
| 68 | Robust stochastic optimization for reservoir operation. *Water Resources Research*, **2015**, 51, 409-429 | 5.4 | 32 |
| 67 | Design of a web-based application of the coupled multi-agent system model and environmental model for watershed management analysis using Hadoop. *Environmental Modelling and Software*, **2015**, 70, 149-162 | 5.2 | 28 |
| 66 | Fifty years of Water Resources Research: Legacy and perspectives for the science of hydrology. *Water Resources Research*, **2015**, 51, 6797-6803 | 5.4 | 20 |
| 65 | Decision support for integrated river basin management: Scientific research challenges. *Science China Earth Sciences*, **2015**, 58, 16-24 | 4.6 | 17 |
| 64 | An integrated modeling framework for exploring flow regime and water quality changes with increasing biofuel crop production in the U.S. Corn Belt. *Water Resources Research*, **2014**, 50, 9385-9404 | 5.4 | 26 |
| 63 | Assessing the value of seasonal climate forecast information through an end-to-end forecasting framework: Application to U.S. 2012 drought in central Illinois. *Water Resources Research*, **2014**, 50, 6592-6609 | 5.4 | 24 |
| 62 | Simulation and Optimization of a Constructed Wetland for Biomass Production and Nitrate Removal. *Journal of Water Resources Planning and Management - ASCE*, **2014**, 140, 04014034 | 2.8 | 1 |
| 61 | Agronomic and Stream Nitrate Load Responses to Incentives for Bioenergy Crop Cultivation and Reductions of Carbon Emissions and Fertilizer Use. *Journal of Water Resources Planning and Management - ASCE*, **2014**, 140, 112-120 | 2.8 | 10 |
| 60 | Incorporating Reanalysis-Based Short-Term Forecasts from a Regional Climate Model in an Irrigation Scheduling Optimization Problem. *Journal of Water Resources Planning and Management - ASCE*, **2014**, 140, 699-713 | 2.8 | 17 |
| 59 | Detecting gradual and abrupt changes in hydrological records. *Advances in Water Resources*, **2013**, 53, 33-44 | 4.7 | 68 |
| 58 | Climate change impacts on global agricultural water deficit. *Geophysical Research Letters*, **2013**, 40, 1111-1117 | 4.6 | 34 |
| 57 | Downgrading recent estimates of land available for biofuel production. *Environmental Science & Technology*, **2013**, 47, 1688-94 | 10.3 | 27 |

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| 56 | Special Issue on the Role of Systems Analysis in Watershed Management. *Journal of Water Resources Planning and Management - ASCE*, **2013**, 139, 461-463 | 2.8 | 9 |
| 55 | Improved Dynamic Programming for Reservoir Operation Optimization with a Concave Objective Function. *Journal of Water Resources Planning and Management - ASCE*, **2012**, 138, 590-596 | 2.8 | 67 |
| 54 | Identifying effective forecast horizon for real-time reservoir operation under a limited inflow forecast. *Water Resources Research*, **2012**, 48, | 5.4 | 68 |
| 53 | Reply to comment by Jozsef Szilagyi on "Assessing interannual variability of evapotranspiration at the catchment scale using satellite-based evapotranspiration data sets" *Water Resources Research*, **2012**, 48, | 5.4 | 8 |
| 52 | Decentralized Optimization Method for Water Allocation Management in the Yellow River Basin. *Journal of Water Resources Planning and Management - ASCE*, **2012**, 138, 313-325 | 2.8 | 41 |
| 51 | Climate change impact on meteorological, agricultural, and hydrological drought in central Illinois. *Water Resources Research*, **2011**, 47, | 5.4 | 107 |
| 50 | 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. *Water Resources Research*, **2011**, 47, | 5.4 | 79 |
| 49 | Assessing interannual variability of evapotranspiration at the catchment scale using satellite-based evapotranspiration data sets. *Water Resources Research*, **2011**, 47, | 5.4 | 60 |
| 48 | Deriving multiple near-optimal solutions to deterministic reservoir operation problems. *Water Resources Research*, **2011**, 47, | 5.4 | 58 |
| 47 | Agricultural water productivity assessment for the Yellow River Basin. *Agricultural Water Management*, **2011**, 98, 1297-1306 | 5.9 | 20 |
| 46 | Optimality conditions for a two-stage reservoir operation problem. *Water Resources Research*, **2011**, 47, | 5.4 | 50 |
| 45 | Land availability for biofuel production. *Environmental Science & Technology*, **2011**, 45, 334-9 | 10.3 | 292 |
| 44 | Value of Probabilistic Weather Forecasts: Assessment by Real-Time Optimization of Irrigation Scheduling. *Journal of Water Resources Planning and Management - ASCE*, **2011**, 137, 391-403 | 2.8 | 35 |
| 43 | Policies and instruments affecting water use for bioenergy production. *Biofuels, Bioproducts and Biorefining*, **2011**, 5, 431-444 | 5.3 | 15 |
| 42 | Some implications of biofuel development for engineering infrastructures in the United States. *Biofuels, Bioproducts and Biorefining*, **2011**, 5, 581-592 | 5.3 | 13 |
| 41 | Carbon consequences and agricultural implications of growing biofuel crops on marginal agricultural lands in China. *Environmental Science & Technology*, **2011**, 45, 10765-72 | 10.3 | 51 |
| 40 | Effect of streamflow forecast uncertainty on real-time reservoir operation. *Advances in Water Resources*, **2011**, 34, 495-504 | 4.7 | 108 |
| 39 | Building more realistic reservoir optimization models using data mining "A case study of Shelbyville Reservoir. *Advances in Water Resources*, **2011**, 34, 701-717 | 4.7 | 31 |

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| 38 | Reservoir Reoperation for Fish Ecosystem Restoration Using Daily Inflows□Case Study of Lake Shelbyville. *Journal of Water Resources Planning and Management - ASCE*, **2011**, 137, 470-480 | 2.8 | 32 |
| 37 | Climate change impacts on global agricultural land availability. *Environmental Research Letters*, **2011**, 6, 014014 | 6.2 | 72 |
| 36 | Comparative study of climate and human impacts on seasonal baseflow in urban and agricultural watersheds. *Geophysical Research Letters*, **2010**, 37, n/a-n/a | 4.9 | 43 |
| 35 | Modeling Miscanthus in the soil and water assessment tool (SWAT) to simulate its water quality effects as a bioenergy crop. *Environmental Science & Technology*, **2010**, 44, 7138-44 | 10.3 | 100 |
| 34 | Yellow River basin: living with scarcity. *Water International*, **2010**, 35, 681-701 | 2.4 | 55 |
| 33 | Irrigation Scheduling□Role of Weather Forecasting and Farmers□Behavior. *Journal of Water Resources Planning and Management - ASCE*, **2009**, 135, 364-372 | 2.8 | 47 |
| 32 | Reexamination of Critical Period for Reservoir Design and Operation. *Journal of Water Resources Planning and Management - ASCE*, **2009**, 135, 392-396 | 2.8 | 3 |
| 31 | Input variable selection for water resources systems using a modified minimum redundancy maximum relevance (mMRMR) algorithm. *Advances in Water Resources*, **2009**, 32, 582-593 | 4.7 | 61 |
| 30 | Detecting human interferences to low flows through base flow recession analysis. *Water Resources Research*, **2009**, 45, | 5.4 | 56 |
| 29 | State and parameter estimation of hydrologic models using the constrained ensemble Kalman filter. *Water Resources Research*, **2009**, 45, | 5.4 | 61 |
| 28 | A decentralized optimization algorithm for multiagent system□based watershed management. *Water Resources Research*, **2009**, 45, | 5.4 | 60 |
| 27 | Assessing the regional variability of GCM simulations. *Geophysical Research Letters*, **2009**, 36, n/a-n/a | 4.9 | 36 |
| 26 | Substitution between water and other agricultural inputs: Implications for water conservation in a River Basin context. *Ecological Economics*, **2008**, 66, 38-50 | 5.6 | 52 |
| 25 | Hedging rule for reservoir operations: 1. A theoretical analysis. *Water Resources Research*, **2008**, 44, | 5.4 | 119 |
| 24 | Hedging rule for reservoir operations: 2. A numerical model. *Water Resources Research*, **2008**, 44, | 5.4 | 53 |
| 23 | Identification of hydrologic indicators related to fish diversity and abundance: A data mining approach for fish community analysis. *Water Resources Research*, **2008**, 44, | 5.4 | 71 |
| 22 | Determining forecast and decision horizons for reservoir operations under hedging policies. *Water Resources Research*, **2008**, 44, | 5.4 | 36 |
| 21 | Understanding Hydrological Cycle Dynamics Due to Changing Land Use and Land Cover: Congo Basin Case Study **2008**, | | 2 |

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| 20 | Calibrating a watershed simulation model involving human interference: an application of multi-objective genetic algorithms. *Journal of Hydroinformatics*, **2008**, 10, 97-111 | 2.6 | 14 |
| 19 | The role of hydrologic information in reservoir operation Learning from historical releases. *Advances in Water Resources*, **2008**, 31, 1636-1650 | 4.7 | 59 |
| 18 | Water stress, water transfer and social equity in Northern China--implications for policy reforms. *Journal of Environmental Management*, **2008**, 87, 14-25 | 7.9 | 153 |
| 17 | Implementation of holistic water resources-economic optimization models for river basin management Reflective experiences. *Environmental Modelling and Software*, **2008**, 23, 2-18 | 5.2 | 93 |
| 16 | Balancing agricultural and environmental water needs in China: alternative scenarios and policy options. *Water Policy*, **2007**, 9, 95-108 | 1.6 | 23 |
| 15 | Retrieval of irrigated and rainfed crop data using a general maximum entropy approach. *Irrigation Science*, **2007**, 25, 325-338 | 3.1 | 4 |
| 14 | A maximum entropy method for combining AOGCMs for regional intra-year climate change assessment. *Climatic Change*, **2007**, 82, 411-435 | 4.5 | 13 |
| 13 | Optimal estimation of irrigation schedule An example of quantifying human interferences to hydrologic processes. *Advances in Water Resources*, **2007**, 30, 1844-1857 | 4.7 | 29 |
| 12 | Valuing Fisheries and Wetlands Using Integrated Economic-Hydrologic Modeling Mekong River Basin. *Journal of Water Resources Planning and Management - ASCE*, **2006**, 132, 480-487 | 2.8 | 56 |
| 11 | Calibrating Holistic Water Resources Economic Models. *Journal of Water Resources Planning and Management - ASCE*, **2006**, 132, 414-423 | 2.8 | 33 |
| 10 | Restoration of Pastureland Ecosystems: Case Study of Western Inner Mongolia. *Journal of Water Resources Planning and Management - ASCE*, **2005**, 131, 420-430 | 2.8 | 15 |
| 9 | Optional water development strategies for the Yellow River Basin: Balancing agricultural and ecological water demands. *Water Resources Research*, **2004**, 40, | 5.4 | 87 |
| 8 | Irrigation technology choices under hydrologic uncertainty: A case study from Maipo River Basin, Chile. *Water Resources Research*, **2004**, 40, | 5.4 | 36 |
| 7 | Integrated Hydrologic-Agronomic-Economic Model for River Basin Management. *Journal of Water Resources Planning and Management - ASCE*, **2003**, 129, 4-17 | 2.8 | 183 |
| 6 | Sustainability analysis for irrigation water management in the Aral Sea region. *Agricultural Systems*, **2003**, 76, 1043-1066 | 6.1 | 142 |
| 5 | Global Water Demand and Supply Projections. *Water International*, **2002**, 27, 159-169 | 2.4 | 104 |
| 4 | A framework for sustainability analysis in water resources management and application to the Syr Darya Basin. *Water Resources Research*, **2002**, 38, 21-1-21-14 | 5.4 | 109 |
| 3 | Solving nonlinear water management models using a combined genetic algorithm and linear programming approach. *Advances in Water Resources*, **2001**, 24, 667-676 | 4.7 | 207 |

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| 2 | Linear vs. nonlinear (convex and concave) hedging rules for reservoir optimization operation. *Water Resources Research*,e2020WR029160 | 5.4 | 0 |
| 1 | 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. *ACS ES&T Engineering*, | | 2 |