

# Chi Zhang

## List of Publications by Year in descending order

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Version: 2024-02-01

69  
papers

2,035  
citations

279701

23  
h-index

254106

43  
g-index

70  
all docs

70  
docs citations

70  
times ranked

2282  
citing authors

#	ARTICLE	IF	CITATIONS
1	Model estimates of net primary productivity, evapotranspiration, and water use efficiency in the terrestrial ecosystems of the southern United States during 1895–2007. <i>Forest Ecology and Management</i> , 2010, 259, 1311-1327.	1.4	300
2	Assessments of Impacts of Climate Change and Human Activities on Runoff with SWAT for the Huifa River Basin, Northeast China. <i>Water Resources Management</i> , 2012, 26, 2199-2217.	1.9	198
3	An integrated framework for high-resolution urban flood modelling considering multiple information sources and urban features. <i>Environmental Modelling and Software</i> , 2018, 107, 85-95.	1.9	150
4	Sobol' indices sensitivity analysis for a distributed hydrological model of Yichun River Basin, China. <i>Journal of Hydrology</i> , 2013, 480, 58-68.	2.3	119
5	An analytical framework for flood water conservation considering forecast uncertainty and acceptable risk. <i>Water Resources Research</i> , 2015, 51, 4702-4726.	1.7	77
6	Unraveling the effect of inter-basin water transfer on reducing water scarcity and its inequality in China. <i>Water Research</i> , 2021, 194, 116931.	5.3	76
7	A two stage Bayesian stochastic optimization model for cascaded hydropower systems considering varying uncertainty of flow forecasts. <i>Water Resources Research</i> , 2014, 50, 9267-9286.	1.7	72
8	Assessing catchment scale flood resilience of urban areas using a grid cell based metric. <i>Water Research</i> , 2019, 163, 114852.	5.3	63
9	Compound Droughts and Heat Waves in China. <i>Sustainability</i> , 2019, 11, 3270.	1.6	58
10	Optimization of Water Diversion Based on Reservoir Operating Rules: Analysis of the Biliu River Reservoir, China. <i>Journal of Hydrologic Engineering - ASCE</i> , 2014, 19, 411-421.	0.8	51
11	A Negotiation-Based Multi-Objective, Multi-Party Decision-Making Model for Inter-Basin Water Transfer Scheme Optimization. <i>Water Resources Management</i> , 2012, 26, 4029-4038.	1.9	47
12	Assessing real options in urban surface water flood risk management under climate change. <i>Natural Hazards</i> , 2018, 94, 1-18.	1.6	47
13	A new water quality assessment model based on projection pursuit technique. <i>Journal of Environmental Sciences</i> , 2009, 21, S154-S157.	3.2	41
14	Exploring the Relationships among Reliability, Resilience, and Vulnerability of Water Supply Using Many-Objective Analysis. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2017, 143, .	1.3	38
15	Quantifying Uncertainties in Extreme Flood Predictions under Climate Change for a Medium-Sized Basin in Northeastern China. <i>Journal of Hydrometeorology</i> , 2016, 17, 3099-3112.	0.7	35
16	Multiobjective hedging rules for flood water conservation. <i>Water Resources Research</i> , 2017, 53, 1963-1981.	1.7	35
17	Global Land Data Assimilation System data assessment using a distributed biosphere hydrological model. <i>Journal of Hydrology</i> , 2015, 528, 652-667.	2.3	34
18	Source identification of sudden contamination based on the parameter uncertainty analysis. <i>Journal of Hydroinformatics</i> , 2016, 18, 919-927.	1.1	33

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19	Impact of human activities on stream flow in the Biliu River basin, China. <i>Hydrological Processes</i> , 2013, 27, 2509-2523.	1.1	29
20	Quantifying dynamic sensitivity of optimization algorithm parameters to improve hydrological model calibration. <i>Journal of Hydrology</i> , 2016, 533, 213-223.	2.3	29
21	Multi-reservoir joint operating rule in inter-basin water transfer-supply project. <i>Science China Technological Sciences</i> , 2015, 58, 123-137.	2.0	26
22	Imprecise probabilistic estimation of design floods with epistemic uncertainties. <i>Water Resources Research</i> , 2016, 52, 4823-4844.	1.7	26
23	Vulnerability Analysis of Urban Drainage Systems: Tree vs. Loop Networks. <i>Sustainability</i> , 2017, 9, 397.	1.6	26
24	The impacts of climate change on water diversion strategies for a water deficit reservoir. <i>Journal of Hydroinformatics</i> , 2014, 16, 872-889.	1.1	25
25	Source contribution analysis of nutrient pollution in a P-rich watershed: Implications for integrated water quality management. <i>Environmental Pollution</i> , 2021, 279, 116885.	3.7	23
26	Applicability of Wakeby distribution in flood frequency analysis: a case study for eastern Australia. <i>Hydrological Processes</i> , 2015, 29, 602-614.	1.1	22
27	Spatial characteristics of total phosphorus loads from different sources in the Lancang River Basin. <i>Science of the Total Environment</i> , 2020, 722, 137863.	3.9	22
28	Spatio-Temporal Analysis of Drought Indicated by SPEI over Northeastern China. <i>Water (Switzerland)</i> , 2019, 11, 908.	1.2	20
29	Application of Export Coefficient Model and QUAL2K for Water Environmental Management in a Rural Watershed. <i>Sustainability</i> , 2019, 11, 6022.	1.6	18
30	Developing stacking ensemble models for multivariate contamination detection in water distribution systems. <i>Science of the Total Environment</i> , 2022, 828, 154284.	3.9	17
31	Multiple Climate Change Scenarios and Runoff Response in Biliu River. <i>Water (Switzerland)</i> , 2018, 10, 126.	1.2	16
32	Research and application of flood detention modeling for ponds and small reservoirs based on remote sensing data. <i>Science China Technological Sciences</i> , 2011, 54, 2138-2144.	2.0	15
33	Comparing Topological Partitioning Methods for District Metered Areas in the Water Distribution Network. <i>Water (Switzerland)</i> , 2018, 10, 368.	1.2	15
34	Regional differences in hydrological response to canopy interception schemes in a land surface model. <i>Hydrological Processes</i> , 2014, 28, 2499-2508.	1.1	14
35	Flow regime identification for air valves failure evaluation in water pipelines using pressure data. <i>Water Research</i> , 2019, 165, 115002.	5.3	14
36	Optimal sensor placement for pipe burst detection in water distribution systems using cost-benefit analysis. <i>Journal of Hydroinformatics</i> , 2020, 22, 606-618.	1.1	13

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37	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> , 2016, 142, .	1.3	12
38	Bi-Level Optimization for Determining Operating Strategies for Inter-Basin Water Transfer-Supply Reservoirs. <i>Water Resources Management</i> , 2017, 31, 4415-4432.	1.9	12
39	Impact of robustness of hydrological model parameters on flood prediction uncertainty. <i>Journal of Flood Risk Management</i> , 2019, 12, .	1.6	12
40	Correlation Analysis Between Groundwater Decline Trend and Human-Induced Factors in Bashang Region. <i>Water (Switzerland)</i> , 2019, 11, 473.	1.2	12
41	Comparative Study of AI-Based Methodsâ€™ Application of Analyzing Inflow and Infiltration in Sanitary Sewer Subcatchments. <i>Sustainability</i> , 2020, 12, 6254.	1.6	11
42	Conjunctive use of Inter-Basin Transferred and Desalinated Water in a Multi-Source Water Supply System Based on Cost-Benefit Analysis. <i>Water Resources Management</i> , 2017, 31, 3313-3328.	1.9	10
43	Evaluation of Temporal and Spatial Ecosystem Services in Dalian, China: Implications for Urban Planning. <i>Sustainability</i> , 2018, 10, 1247.	1.6	10
44	Estimating winter wheat area based on an SVM and the variable fuzzy set method. <i>Remote Sensing Letters</i> , 2019, 10, 343-352.	0.6	10
45	Preconditioning Water Distribution Network Optimization with Head Lossâ€™Based Design Method. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2020, 146, .	1.3	9
46	Unraveling the Effects of Long-Distance Water Transfer for Ecological Recharge. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2020, 146, .	1.3	9
47	Cost-Benefit Framework for Optimal Design of Water Transfer Systems. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2019, 145, .	1.3	8
48	A watershed rainfall data recovery approach with application to distributed hydrological models. <i>Hydrological Processes</i> , 2012, 26, 1937-1948.	1.1	7
49	Streamflow and Sediment Declines in a Loess Hill and Gully Landform Basin Due to Climate Variability and Anthropogenic Activities. <i>Water (Switzerland)</i> , 2019, 11, 2352.	1.2	7
50	Detecting Winter Wheat Irrigation Signals Using SMAP Gridded Soil Moisture Data. <i>Remote Sensing</i> , 2019, 11, 2390.	1.8	7
51	An Analytical Framework for Reservoir Operation With Combined Natural Inflow and Controlled Inflow. <i>Water Resources Research</i> , 2020, 56, e2019WR025347.	1.7	7
52	Realizing the full reservoir operation potential during the 2020 Yangtze river floods. <i>Scientific Reports</i> , 2022, 12, 2822.	1.6	6
53	Inherent Relationship between Flow Duration Curves at Different Time Scales: A Perspective on Monthly Flow Data Utilization in Daily Flow Duration Curve Estimation. <i>Water (Switzerland)</i> , 2018, 10, 1008.	1.2	5
54	A fuzzy inference method based on association rule analysis with application to river flood forecasting. <i>Water Science and Technology</i> , 2012, 66, 2090-2098.	1.2	4

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55	Identifying the key water levels in reservoir operation on ecological objectives. <i>Water Science and Technology: Water Supply</i> , 2014, 14, 1160-1167.	1.0	4
56	Catchments' hedging strategy on evapotranspiration for climatic variability. <i>Water Resources Research</i> , 2016, 52, 9036-9045.	1.7	3
57	Use of multi-objective analysis to reveal the benefits of a water transfer project. <i>Water Science and Technology: Water Supply</i> , 2017, 17, 259-266.	1.0	3
58	Recent Advances in Adaptive Catchment Management and Reservoir Operation. <i>Water (Switzerland)</i> , 2019, 11, 427.	1.2	3
59	Identifying Flow Patterns in Water Pipelines Using Complex Network Theory. <i>Journal of Hydraulic Engineering</i> , 2021, 147, .	0.7	3
60	Nanoscale Magnetization and Current Imaging Using Time-Resolved Scanning-Probe Magnetothermal Microscopy. <i>Nano Letters</i> , 2021, 21, 4966-4972.	4.5	3
61	Evaluation of Seven Near-Real-Time Satellite-Based Precipitation Products for Wet Seasons in the Nierji Basin, China. <i>Remote Sensing</i> , 2021, 13, 4552.	1.8	3
62	Water permits trading framework for urban water demand management based on smart metering. <i>Journal of Environmental Management</i> , 2022, 304, 114208.	3.8	3
63	A Model Combined Fuzzy Optimum Theory with Analytical Hierarchy Process for Engineering Design. , 2007, , .		2
64	Spatial variation of channel head curvature in small mountainous watersheds. <i>Hydrology Research</i> , 2019, 50, 1251-1266.	1.1	2
65	Estimating the spatial-temporal distribution of urban street ponding levels from surveillance videos based on computer vision. <i>Water Resources Management</i> , 0, , 1.	1.9	2
66	Measuring surplus capacity for multiobjective optimal design of foul sewer systems. <i>Urban Water Journal</i> , 2018, 15, 723-731.	1.0	1
67	A Supervised Algorithm for Fuzzy Multi-criteria Decision Making. , 2007, , .		0
68	Optimizing Schemas of Flood Control and Disaster Reduction Engineering Based on Variable Fuzzy Sets Theory. , 2007, , .		0
69	Comparing the Impacts of Sedimentâ€Spiked Cadmium on Chironomidae Larvae in Laboratory Bioassays and Field Microcosms and the Implications for Field Validation of Siteâ€Specific Threshold Concentrations. <i>Environmental Toxicology and Chemistry</i> , 2021, 40, 2450-2462.	2.2	0