

# Yi Zheng

## List of Publications by Year in descending order

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97  
papers

3,814  
citations

126708

33  
h-index

143772

57  
g-index

98  
all docs

98  
docs citations

98  
times ranked

4169  
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on agro-industrial waste (AIW) derived adsorbents for water and wastewater treatment. <i>Journal of Environmental Management</i> , 2018, 227, 395-405.	3.8	292
2	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> , 2018, 123, 890-914.	1.2	189
3	Global mapping reveals increase in lacustrine algal blooms over the past decade. <i>Nature Geoscience</i> , 2022, 15, 130-134.	5.4	158
4	Occurrence, distribution, bioaccumulation, and ecological risk of bisphenol analogues, parabens and their metabolites in the Pearl River Estuary, South China. <i>Ecotoxicology and Environmental Safety</i> , 2019, 180, 43-52.	2.9	143
5	Modeling surface water-groundwater interaction in arid and semi-arid regions with intensive agriculture. <i>Environmental Modelling and Software</i> , 2015, 63, 170-184.	1.9	141
6	Immunotoxicity of bisphenol S and F are similar to that of bisphenol A during zebrafish early development. <i>Chemosphere</i> , 2018, 194, 1-8.	4.2	116
7	Eutrophication changes in fifty large lakes on the Yangtze Plain of China derived from MERIS and OLCI observations. <i>Remote Sensing of Environment</i> , 2020, 246, 111890.	4.6	115
8	Monitoring and understanding the water transparency changes of fifty large lakes on the Yangtze Plain based on long-term MODIS observations. <i>Remote Sensing of Environment</i> , 2019, 221, 675-686.	4.6	114
9	A simple and objective method to partition evapotranspiration into transpiration and evaporation at eddy-covariance sites. <i>Agricultural and Forest Meteorology</i> , 2019, 265, 171-182.	1.9	111
10	Improving AI System Awareness of Geoscience Knowledge: Symbiotic Integration of Physical Approaches and Deep Learning. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088229.	1.5	93
11	Optimizing conjunctive use of surface water and groundwater for irrigation to address human-nature water conflicts: A surrogate modeling approach. <i>Agricultural Water Management</i> , 2016, 163, 380-392.	2.4	85
12	Membrane fouling mechanism of biofilm-membrane bioreactor (BF-MBR): Pore blocking model and membrane cleaning. <i>Bioresource Technology</i> , 2018, 250, 398-405.	4.8	82
13	Exploring scale-dependent ecohydrological responses in a large endorheic river basin through integrated surface water-groundwater modeling. <i>Water Resources Research</i> , 2015, 51, 4065-4085.	1.7	79
14	Photolysis of enrofloxacin, pefloxacin and sulfaquinoxaline in aqueous solution by UV/H <sub>2</sub> O <sub>2</sub> , UV/Fe(II), and UV/H <sub>2</sub> O <sub>2</sub> /Fe(II) and the toxicity of the final reaction solutions on zebrafish embryos. <i>Science of the Total Environment</i> , 2019, 651, 1457-1468.	3.9	77
15	Optimizing water resources management in large river basins with integrated surface water-groundwater modeling: A surrogate-based approach. <i>Water Resources Research</i> , 2015, 51, 2153-2173.	1.7	76
16	Systematic assessment of the uncertainty in integrated surface water-groundwater modeling based on the probabilistic collocation method. <i>Water Resources Research</i> , 2014, 50, 5848-5865.	1.7	72
17	A comprehensive review on the design and optimization of surface water quality monitoring networks. <i>Environmental Modelling and Software</i> , 2020, 132, 104792.	1.9	68
18	Anthropogenic transformation of Yangtze Plain freshwater lakes: patterns, drivers and impacts. <i>Remote Sensing of Environment</i> , 2020, 248, 111998.	4.6	63

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19	Oxidative Stress, Endocrine Disturbance, and Immune Interference in Humans Showed Relationships to Serum Bisphenol Concentrations in a Dense Industrial Area. <i>Environmental Science &amp; Technology</i> , 2021, 55, 1953-1963.	4.6	59
20	Uncovering Flooding Mechanisms Across the Contiguous United States Through Interpretive Deep Learning on Representative Catchments. <i>Water Resources Research</i> , 2022, 58, .	1.7	54
21	Enrichment behavior and transport mechanism of soil-bound PAHs during rainfall-runoff events. <i>Environmental Pollution</i> , 2012, 171, 85-92.	3.7	50
22	What controls the partitioning between baseflow and mountain block recharge in the Qinghai-Tibet Plateau?. <i>Geophysical Research Letters</i> , 2017, 44, 8352-8358.	1.5	48
23	Markov Chain Monte Carlo (MCMC) uncertainty analysis for watershed water quality modeling and management. <i>Stochastic Environmental Research and Risk Assessment</i> , 2016, 30, 293-308.	1.9	47
24	Doubling of annual forest carbon loss over the tropics during the early twenty-first century. <i>Nature Sustainability</i> , 2022, 5, 444-451.	11.5	47
25	Advancing Opportunistic Sensing in Hydrology: A Novel Approach to Measuring Rainfall With Ordinary Surveillance Cameras. <i>Water Resources Research</i> , 2019, 55, 3004-3027.	1.7	42
26	Exploring the potential of Rayleigh-corrected reflectance in coastal and inland water applications: A simple aerosol correction method and its merits. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2018, 146, 52-64.	4.9	39
27	Understanding parameter sensitivity and its management implications in watershed-scale water quality modeling. <i>Water Resources Research</i> , 2006, 42, .	1.7	38
28	Robustness analysis of storm water quality modelling with LID infrastructures from natural event-based field monitoring. <i>Science of the Total Environment</i> , 2021, 753, 142007.	3.9	38
29	Novel hybrid coupling of ecohydrology and socioeconomy at river basin scale: A watershed system model for the Heihe River basin. <i>Environmental Modelling and Software</i> , 2021, 141, 105058.	1.9	36
30	Assessing the polycyclic aromatic hydrocarbon (PAH) pollution of urban stormwater runoff: A dynamic modeling approach. <i>Science of the Total Environment</i> , 2014, 481, 554-563.	3.9	35
31	Transport mechanisms of soil-bound mercury in the erosion process during rainfall-runoff events. <i>Environmental Pollution</i> , 2016, 215, 10-17.	3.7	35
32	Role of Groundwater in the Dryland Ecohydrological System: A Case Study of the Heihe River Basin. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 6760-6776.	1.2	35
33	Impacts of human disturbance on the biogeochemical nitrogen cycle in a subtropical river system revealed by nitrifier and denitrifier genes. <i>Science of the Total Environment</i> , 2020, 746, 141139.	3.9	35
34	An integrated hydrological modeling approach for detection and attribution of climatic and human impacts on coastal water resources. <i>Journal of Hydrology</i> , 2018, 557, 305-320.	2.3	33
35	The nexus of water, ecosystems and agriculture in arid areas: A multiobjective optimization study on system efficiencies. <i>Agricultural Water Management</i> , 2019, 223, 105697.	2.4	32
36	Maternal exposure to environmental antibiotic mixture during gravid period predicts gastrointestinal effects in zebrafish offspring. <i>Journal of Hazardous Materials</i> , 2020, 399, 123009.	6.5	32

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37	Uncertainty assessment for watershed water quality modeling: A Probabilistic Collocation Method based approach. <i>Advances in Water Resources</i> , 2011, 34, 887-898.	1.7	30
38	A computer vision-based approach to fusing spatiotemporal data for hydrological modeling. <i>Journal of Hydrology</i> , 2018, 567, 25-40.	2.3	30
39	Joint analysis of input and parametric uncertainties in watershed water quality modeling: A formal Bayesian approach. <i>Advances in Water Resources</i> , 2018, 116, 77-94.	1.7	28
40	Integrated aerobic granular sludge and membrane process for enabling municipal wastewater treatment and reuse water production. <i>Chemical Engineering Journal</i> , 2018, 337, 300-311.	6.6	28
41	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> , 2020, 591, 125313.	2.3	28
42	Multiple-response Bayesian calibration of watershed water quality models with significant input and model structure errors. <i>Advances in Water Resources</i> , 2016, 88, 109-123.	1.7	27
43	The Nexus of Water, Ecosystems, and Agriculture in Endorheic River Basins: A System Analysis Based on Integrated Ecohydrological Modeling. <i>Water Resources Research</i> , 2018, 54, 7534-7556.	1.7	27
44	Uncertainty assessment in watershed-scale water quality modeling and management: 1. Framework and application of generalized likelihood uncertainty estimation (GLUE) approach. <i>Water Resources Research</i> , 2007, 43, .	1.7	26
45	Balancing competing interests in the Mekong River Basin via the operation of cascade hydropower reservoirs in China: Insights from system modeling. <i>Journal of Cleaner Production</i> , 2020, 254, 119967.	4.6	25
46	Quantitative design of emergency monitoring network for river chemical spills based on discrete entropy theory. <i>Water Research</i> , 2018, 134, 140-152.	5.3	24
47	Northward shift of historical methane emission hotspots from the livestock sector in China and assessment of potential mitigation options. <i>Agricultural and Forest Meteorology</i> , 2019, 272-273, 1-11.	1.9	24
48	Improving urban drainage systems to mitigate PPCPs pollution in surface water: A watershed perspective. <i>Journal of Hazardous Materials</i> , 2021, 411, 125047.	6.5	24
49	Surface water temperature prediction in large-deep reservoirs using a long short-term memory model. <i>Ecological Indicators</i> , 2022, 134, 108491.	2.6	24
50	Evaluating potential non-point source loading of PAHs from contaminated soils: A fugacity-based modeling approach. <i>Environmental Pollution</i> , 2015, 196, 1-11.	3.7	23
51	Development of a visualization tool for integrated surface water-groundwater modeling. <i>Computers and Geosciences</i> , 2016, 86, 1-14.	2.0	23
52	A comprehensive graphical modeling platform designed for integrated hydrological simulation. <i>Environmental Modelling and Software</i> , 2018, 108, 154-173.	1.9	23
53	The transborder flux of phosphorus in the Lancang-Mekong River Basin: Magnitude, patterns and impacts from the cascade hydropower dams in China. <i>Journal of Hydrology</i> , 2020, 590, 125201.	2.3	23
54	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

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55	Role of Organic and Conservation Agriculture in Ammonia Emissions and Crop Productivity in China. <i>Environmental Science &amp; Technology</i> , 2022, 56, 2977-2989.	4.6	23
56	Joint Operation of Surface Water and Groundwater Reservoirs to Address Water Conflicts in Arid Regions: An Integrated Modeling Study. <i>Water (Switzerland)</i> , 2018, 10, 1105.	1.2	22
57	Stochastic Watershed Water Quality Simulation for TMDL Development – A Case Study in the Newport Bay Watershed. <i>Journal of the American Water Resources Association</i> , 2008, 44, 1397-1410.	1.0	21
58	Impact of carbonaceous materials in soil on the transport of soil-bound PAHs during rainfall-runoff events. <i>Environmental Pollution</i> , 2013, 182, 233-241.	3.7	21
59	Numerical modeling of regional groundwater flow in the Heihe River Basin, China: Advances and new insights. <i>Science China Earth Sciences</i> , 2015, 58, 3-15.	2.3	21
60	Influence of watershed topographic and socio-economic attributes on the climate sensitivity of global river water quality. <i>Environmental Research Letters</i> , 2017, 12, 104012.	2.2	20
61	Policy-enabled stabilization of nitrous oxide emissions from livestock production in China over 1978–2017. <i>Nature Food</i> , 2022, 3, 356-366.	6.2	20
62	Kriging and PAH Pollution Assessment in the Topsoil of Tianjin Area. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2003, 71, 189-195.	1.3	19
63	An integrated ecohydrological modeling approach to exploring the dynamic interaction between groundwater and phreatophytes. <i>Ecological Modelling</i> , 2017, 356, 127-140.	1.2	19
64	Nexus of water, energy and ecosystems in the upper Mekong River: A system analysis of phosphorus transport through cascade reservoirs. <i>Science of the Total Environment</i> , 2019, 671, 1179-1191.	3.9	19
65	PAH contamination in Beijing's topsoil: A unique indicator of the megacity's evolving energy consumption and overall environmental quality. <i>Scientific Reports</i> , 2016, 6, 33245.	1.6	18
66	Spatial Variation of Reactive Nitrogen Emissions From China's Croplands Codetermined by Regional Urbanization and Its Feedback to Global Climate Change. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086551.	1.5	18
67	Evaluating Distributed Policies for Conjunctive Surface Water–Groundwater Management in Large River Basins: Water Uses Versus Hydrological Impacts. <i>Water Resources Research</i> , 2022, 58, .	1.7	18
68	DETERMINING CRITICAL WATER QUALITY CONDITIONS FOR INORGANIC NITROGEN IN DRY, SEMI-URBANIZED WATERSHEDS. <i>Journal of the American Water Resources Association</i> , 2004, 40, 721-735.	1.0	16
69	Inverse uncertainty characteristics of pollution source identification for river chemical spill incidents by stochastic analysis. <i>Frontiers of Environmental Science and Engineering</i> , 2018, 12, 1.	3.3	16
70	A comprehensive study on spectral analysis and anomaly detection of river water quality dynamics with high time resolution measurements. <i>Journal of Hydrology</i> , 2020, 589, 125175.	2.3	16
71	Assessing the interlinkage of green and blue water in an arid catchment in Northwest China. <i>Environmental Geochemistry and Health</i> , 2020, 42, 933-953.	1.8	15
72	Addressing the water conflict between agriculture and ecosystems under environmental flow regulation: An integrated modeling study. <i>Environmental Modelling and Software</i> , 2020, 134, 104874.	1.9	15

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73	Assessing the value of information for water quality management: a watershed perspective from China. <i>Environmental Monitoring and Assessment</i> , 2013, 185, 3023-3035.	1.3	14
74	Recovery of an endorheic lake after a decade of conservation efforts: Mediating the water conflict between agriculture and ecosystems. <i>Agricultural Water Management</i> , 2021, 256, 107107.	2.4	14
75	An Integrated Modeling Approach to Study the Surface Water-Groundwater Interactions and Influence of Temporal Damping Effects on the Hydrological Cycle in the Miho Catchment in South Korea. <i>Water (Switzerland)</i> , 2018, 10, 1529.	1.2	13
76	Correlation patterns between magnetic parameters and heavy metals of core sediments in the Yellow River Estuary and their environmental implications. <i>Marine Pollution Bulletin</i> , 2020, 160, 111590.	2.3	13
77	Predicting Dynamic Riverine Nitrogen Export in Unmonitored Watersheds: Leveraging Insights of AI from Data-Rich Regions. <i>Environmental Science &amp; Technology</i> , 2022, 56, 10530-10542.	4.6	13
78	Investigating Hydrochemical Groundwater Processes in an Inland Agricultural Area with Limited Data: A Clustering Approach. <i>Water (Switzerland)</i> , 2017, 9, 723.	1.2	12
79	Quantifying colloid fate and transport through dense vegetation and soil systems using a particle-plugging tempered fractional-derivative model. <i>Journal of Contaminant Hydrology</i> , 2019, 224, 103484.	1.6	12
80	Role of Sponge City Development in China's battle against urban water pollution: Insights from a transjurisdictional water quality management study. <i>Journal of Cleaner Production</i> , 2021, 294, 126335.	4.6	12
81	Accounting for field-scale heterogeneity in the ecohydrological modeling of large arid river basins: Strategies and relevance. <i>Journal of Hydrology</i> , 2021, 595, 126045.	2.3	11
82	Water quality and health risk assessment of the water bodies in the Yamdrok-tso basin, southern Tibetan Plateau. <i>Journal of Environmental Management</i> , 2021, 300, 113740.	3.8	11
83	Comprehensive Optimization Framework for Low Impact Development Facility Layout Design with Cost-Benefit Analysis: A Case Study in Shenzhen City, China. <i>ACS ES&amp;T Water</i> , 2022, 2, 63-74.	2.3	11
84	Uncertainty assessment in watershed-scale water quality modeling and management: 2. Management objectives constrained analysis of uncertainty (MOCAU). <i>Water Resources Research</i> , 2007, 43, .	1.7	9
85	Transcriptomic analysis of bisphenol AF on early growth and development of zebrafish ( <i>Danio rerio</i> ) larvae. <i>Environmental Science and Ecotechnology</i> , 2020, 4, 100054.	6.7	9
86	High-Resolution Mapping of Ice Cover Changes in Over 33,000 Lakes Across the North Temperate Zone. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095614.	1.5	9
87	Improving the Scientific Understanding of the Paradox of Irrigation Efficiency: An Integrated Modeling Approach to Assessing Basin-scale Irrigation Efficiency. <i>Water Resources Research</i> , 2021, 57, e2020WR029397.	1.7	8
88	Effects of agricultural activities on the temporal variations of streamflow: trends and long memory. <i>Stochastic Environmental Research and Risk Assessment</i> , 2019, 33, 1553-1564.	1.9	7
89	Road runoff as a significant nonpoint source of parabens and their metabolites in urban rivers. <i>Chemosphere</i> , 2022, 301, 134632.	4.2	7
90	Automatic Quality Control of Crowdsourced Rainfall Data With Multiple Noises: A Machine Learning Approach. <i>Water Resources Research</i> , 2021, 57, e2020WR029121.	1.7	6

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91	Optimal Control of Markov-Modulated Multiclass Many-Server Queues. Stochastic Systems, 2019, 9, 155-181.	0.8	4
92	Are only floods with large discharges threatening? Flood characteristics evolution in the Yangtze River Basin. Geoscience Letters, 2021, 8, .	1.3	4
93	Continuous Loss of Global Lake Ice Across Two Centuries Revealed by Satellite Observations and Numerical Modeling. Geophysical Research Letters, 2022, 49, .	1.5	4
94	Addressing the Uncertainty in Modeling Watershed Nonpoint Source Pollution. Developments in Environmental Modelling, 2014, , 113-159.	0.3	3
95	Optimal Scheduling of Critically Loaded Multiclass GI/M/n+M Queues in an Alternating Renewal Environment. Applied Mathematics and Optimization, 2021, 84, 1857-1901.	0.8	2
96	Evaluation of Different Roof Materials for the Mitigation of Urban Warming in a Subtropical Monsoon Climate. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031972.	1.2	0
97	Response to Comment on "Oxidative Stress, Endocrine Disturbance, and Immune Interference in Humans Showed Relationships to Serum Bisphenol Concentrations in a Dense Industrial Area". Environmental Science & Technology, 2022, 56, 4688-4690.	4.6	0