

# Xiaodong Zhang

## List of Publications by Year in descending order

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48  
papers

1,339  
citations

304368

22  
h-index

344852

36  
g-index

49  
all docs

49  
docs citations

49  
times ranked

1617  
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrated modeling approach for optimal management of water, energy and food security nexus. <i>Advances in Water Resources</i> , 2017, 101, 1-10.	1.7	171
2	Energy-water nexus: Balancing the tradeoffs between two-level decision makers. <i>Applied Energy</i> , 2016, 183, 77-87.	5.1	131
3	Uncertainty assessment of climate change impacts on the hydrology of small prairie wetlands. <i>Journal of Hydrology</i> , 2011, 396, 94-103.	2.3	85
4	Predicting ground-level PM2.5 concentrations in the Beijing-Tianjin-Hebei region: A hybrid remote sensing and machine learning approach. <i>Environmental Pollution</i> , 2019, 249, 735-749.	3.7	57
5	A remote sensing method for estimating regional reservoir area and evaporative loss. <i>Journal of Hydrology</i> , 2017, 555, 213-227.	2.3	52
6	Multi-period calibration of a semi-distributed hydrological model based on hydroclimatic clustering. <i>Advances in Water Resources</i> , 2011, 34, 1292-1303.	1.7	48
7	Shale gas wastewater management under uncertainty. <i>Journal of Environmental Management</i> , 2016, 165, 188-198.	3.8	47
8	Robust stochastic fuzzy possibilistic programming for environmental decision making under uncertainty. <i>Science of the Total Environment</i> , 2009, 408, 192-201.	3.9	44
9	Inexact de Novo programming for water resources systems planning. <i>European Journal of Operational Research</i> , 2009, 199, 531-541.	3.5	41
10	Optimal decision schemes for agricultural water quality management planning with imprecise objective. <i>Agricultural Water Management</i> , 2009, 96, 1723-1731.	2.4	39
11	Petroleum-contaminated groundwater remediation systems design: A data envelopment analysis based approach. <i>Expert Systems With Applications</i> , 2009, 36, 5666-5672.	4.4	36
12	Optimal design of pressure-based, leakage detection monitoring networks for geologic carbon sequestration repositories. <i>International Journal of Greenhouse Gas Control</i> , 2013, 19, 251-261.	2.3	35
13	A fuzzy-robust stochastic multiobjective programming approach for petroleum waste management planning. <i>Applied Mathematical Modelling</i> , 2010, 34, 2778-2788.	2.2	34
14	Development of a GHG-mitigation oriented inexact dynamic model for regional energy system management. <i>Energy</i> , 2011, 36, 3388-3398.	4.5	33
15	Model-based decision support system for water quality management under hybrid uncertainty. <i>Expert Systems With Applications</i> , 2011, 38, 2809-2816.	4.4	31
16	Possibilistic Stochastic Water Management Model for Agricultural Nonpoint Source Pollution. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2011, 137, 101-112.	1.3	30
17	Development of a decision-support system for rural eco-environmental management in Yongxin County, Jiangxi Province, China. <i>Environmental Modelling and Software</i> , 2010, 25, 24-42.	1.9	28
18	Conjunctive surface water and groundwater management under climate change. <i>Frontiers in Environmental Science</i> , 2015, 3, .	1.5	28

#	ARTICLE	IF	CITATIONS
19	Efficient degradation of bisphenol A with MoS <sub>2</sub> /BiVO <sub>4</sub> hetero-nanoflower as a heterogenous peroxymonosulfate activator under visible-light irradiation. <i>Chemosphere</i> , 2022, 289, 133158.	4.2	28
20	Municipal solid waste management planning considering greenhouse gas emission trading under fuzzy environment. <i>Journal of Environmental Management</i> , 2014, 135, 11-18.	3.8	26
21	Identification of management strategies for CO <sub>2</sub> capture and sequestration under uncertainty through inexact modeling. <i>Applied Energy</i> , 2014, 113, 310-317.	5.1	25
22	Water Resources Utilization and Protection in the Coal Mining Area of Northern China. <i>Scientific Reports</i> , 2019, 9, 1214.	1.6	23
23	EMDSS: An optimization-based decision support system for energy systems management under changing climate conditions – An application to the Toronto-Niagara Region, Canada. <i>Expert Systems With Applications</i> , 2010, 37, 5040-5051.	4.4	22
24	An integrated multi-level watershed-reservoir modeling system for examining hydrological and biogeochemical processes in small prairie watersheds. <i>Water Research</i> , 2012, 46, 1207-1224.	5.3	21
25	Experimental Estimates of Optical Backscattering Associated With Submicron Particles in Clear Oceanic Waters. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087100.	1.5	21
26	Optimization of environmental management strategies through a dynamic stochastic possibilistic multiobjective program. <i>Journal of Hazardous Materials</i> , 2013, 246-247, 257-266.	6.5	19
27	Potential Subsurface Impacts of CO <sub>2</sub> Stream Impurities on Geologic Carbon Storage. <i>Energy Procedia</i> , 2013, 37, 4552-4559.	1.8	19
28	Cost-optimal design of pressure-based monitoring networks for carbon sequestration projects, with consideration of geological uncertainty. <i>International Journal of Greenhouse Gas Control</i> , 2018, 71, 278-292.	2.3	17
29	Planning of municipal solid waste management under dual uncertainties. <i>Waste Management and Research</i> , 2010, 28, 673-684.	2.2	14
30	CCEM: A City-cluster Energy Systems Planning Model. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2009, 31, 273-286.	1.2	13
31	Inhibitory Effects of Organic Acids on Bacteria Growth During Food Waste Composting. <i>Compost Science and Utilization</i> , 2010, 18, 55-63.	1.2	13
32	Improved remediation of co-contaminated soils by heavy metals and PAHs with biosurfactant-enhanced soil washing. <i>Scientific Reports</i> , 2022, 12, 3801.	1.6	12
33	Inexact Community-Scale Energy Systems Planning Model. <i>Journal of the Urban Planning and Development Division, ASCE</i> , 2010, 136, 195-207.	0.8	11
34	Assessment of BTEX-induced health risk under multiple uncertainties at a petroleum-contaminated site: An integrated fuzzy stochastic approach. <i>Water Resources Research</i> , 2011, 47, .	1.7	11
35	A Fuzzy Simulation-Based Optimization Approach for Groundwater Remediation Design at Contaminated Aquifers. <i>Mathematical Problems in Engineering</i> , 2012, 2012, 1-13.	0.6	10
36	Development of an interval multi-stage stochastic programming model for regional energy systems planning and GHG emission control under uncertainty. <i>International Journal of Energy Research</i> , 2012, 36, 1161-1174.	2.2	10

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37	A Decentralized Bi-Level Fuzzy Two-Stage Decision Model for Flood Management. <i>Water Resources Management</i> , 2018, 32, 1615-1629.	1.9	8
38	Modeling Biosurfactant-Enhanced Bioremediation Processes for Petroleum-Contaminated Sites. <i>Petroleum Science and Technology</i> , 2010, 28, 1211-1221.	0.7	7
39	Managing conflicts and equitability in hierarchical decision making for water resources planning under fuzzy uncertainty: A case study of Yellow River, China. <i>Journal of Hydrology: Regional Studies</i> , 2021, 38, 100963.	1.0	7
40	gCN-P: a coupled g-C <sub>3</sub> N <sub>4</sub> /persulfate system for photocatalytic degradation of organic pollutants under simulated sunlight. <i>Environmental Science and Pollution Research</i> , 2022, 29, 23280-23291.	2.7	5
41	Humic acid addition sequence and concentration affect sulfur incorporation, electron transfer, and reactivity of sulfidated nanoscale zero-valent iron. <i>Chemosphere</i> , 2022, 294, 133826.	4.2	5
42	DESPU: Dynamic Optimization for Energy Systems Planning Under Uncertainty. <i>Energy Sources, Part B: Economics, Planning and Policy</i> , 2011, 6, 321-338.	1.8	4
43	Two-Stage Fracturing Wastewater Management in Shale Gas Development. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 1570-1579.	1.8	4
44	A simulation-optimization approach for supporting conservative water allocation under uncertainties. <i>Journal of Environmental Management</i> , 2022, 315, 115073.	3.8	4
45	Regional-scale water-energy nexus management by a mixed Possibilistic-Flexible robust nonlinear programming model. <i>Journal of Hydrology</i> , 2021, 603, 126852.	2.3	3
46	Development of a decision support system for groundwater pollution control at coal-mining contaminated sites. , 0, , .		1
47	A Hybrid Statistical Downscaling Framework Based on Nonstationary Time Series Decomposition and Machine Learning. <i>Earth and Space Science</i> , 2022, 9, .	1.1	1
48	Robust decision support for seawater desalination system management under consideration of environmental pollution control. <i>Environmental Science and Pollution Research</i> , 2022, , 1.	2.7	0