

Xiaodong Zhang

List of Publications by Citations

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47
papers

1,007
citations

19
h-index

30
g-index

49
ext. papers

1,159
ext. citations

5.6
avg, IF

4.93
L-index

| # | Paper | IF | Citations |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 47 | Integrated modeling approach for optimal management of water, energy and food security nexus. <i>Advances in Water Resources</i> , 2017 , 101, 1-10 | 4.7 | 121 |
| 46 | Energy-water nexus: Balancing the tradeoffs between two-level decision makers. <i>Applied Energy</i> , 2016 , 183, 77-87 | 10.7 | 99 |
| 45 | Uncertainty assessment of climate change impacts on the hydrology of small prairie wetlands. <i>Journal of Hydrology</i> , 2011 , 396, 94-103 | 6 | 70 |
| 44 | Shale gas wastewater management under uncertainty. <i>Journal of Environmental Management</i> , 2016 , 165, 188-198 | 7.9 | 42 |
| 43 | Multi-period calibration of a semi-distributed hydrological model based on hydroclimatic clustering. <i>Advances in Water Resources</i> , 2011 , 34, 1292-1303 | 4.7 | 41 |
| 42 | Robust stochastic fuzzy possibilistic programming for environmental decision making under uncertainty. <i>Science of the Total Environment</i> , 2009 , 408, 192-201 | 10.2 | 37 |
| 41 | Predicting ground-level PM concentrations in the Beijing-Tianjin-Hebei region: A hybrid remote sensing and machine learning approach. <i>Environmental Pollution</i> , 2019 , 249, 735-749 | 9.3 | 36 |
| 40 | Optimal decision schemes for agricultural water quality management planning with imprecise objective. <i>Agricultural Water Management</i> , 2009 , 96, 1723-1731 | 5.9 | 34 |
| 39 | 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 | 4.2 | 33 |
| 38 | Development of a GHG-mitigation oriented inexact dynamic model for regional energy system management. <i>Energy</i> , 2011 , 36, 3388-3398 | 7.9 | 32 |
| 37 | A fuzzy-robust stochastic multiobjective programming approach for petroleum waste management planning. <i>Applied Mathematical Modelling</i> , 2010 , 34, 2778-2788 | 4.5 | 32 |
| 36 | A remote sensing method for estimating regional reservoir area and evaporative loss. <i>Journal of Hydrology</i> , 2017 , 555, 213-227 | 6 | 31 |
| 35 | Petroleum-contaminated groundwater remediation systems design: A data envelopment analysis based approach. <i>Expert Systems With Applications</i> , 2009 , 36, 5666-5672 | 7.8 | 31 |
| 34 | Inexact de Novo programming for water resources systems planning. <i>European Journal of Operational Research</i> , 2009 , 199, 531-541 | 5.6 | 29 |
| 33 | Possibilistic Stochastic Water Management Model for Agricultural Nonpoint Source Pollution. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2011 , 137, 101-112 | 2.8 | 26 |
| 32 | Model-based decision support system for water quality management under hybrid uncertainty. <i>Expert Systems With Applications</i> , 2011 , 38, 2809-2816 | 7.8 | 25 |
| 31 | Identification of management strategies for CO ₂ capture and sequestration under uncertainty through inexact modeling. <i>Applied Energy</i> , 2014 , 113, 310-317 | 10.7 | 24 |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 30 | Municipal solid waste management planning considering greenhouse gas emission trading under fuzzy environment. <i>Journal of Environmental Management</i> , 2014 , 135, 11-8 | 7.9 | 21 |
| 29 | 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 | 5.2 | 20 |
| 28 | 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 | 7.8 | 19 |
| 27 | Optimization of environmental management strategies through a dynamic stochastic possibilistic multiobjective program. <i>Journal of Hazardous Materials</i> , 2013 , 246-247, 257-66 | 12.8 | 18 |
| 26 | An integrated multi-level watershed-reservoir modeling system for examining hydrological and biogeochemical processes in small prairie watersheds. <i>Water Research</i> , 2012 , 46, 1207-24 | 12.5 | 18 |
| 25 | Potential Subsurface Impacts of CO2 Stream Impurities on Geologic Carbon Storage. <i>Energy Procedia</i> , 2013 , 37, 4552-4559 | 2.3 | 16 |
| 24 | Conjunctive surface water and groundwater management under climate change. <i>Frontiers in Environmental Science</i> , 2015 , 3, | 4.8 | 16 |
| 23 | Experimental Estimates of Optical Backscattering Associated With Submicron Particles in Clear Oceanic Waters. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL087100 | 4.9 | 13 |
| 22 | 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 | 4.2 | 13 |
| 21 | Planning of municipal solid waste management under dual uncertainties. <i>Waste Management and Research</i> , 2010 , 28, 673-84 | 4 | 12 |
| 20 | CCEM: A City-cluster Energy Systems Planning Model. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2009 , 31, 273-286 | 1.6 | 11 |
| 19 | 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 | 4.5 | 10 |
| 18 | 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, | 5.4 | 10 |
| 17 | Inexact Community-Scale Energy Systems Planning Model. <i>Journal of the Urban Planning and Development Division, ASCE</i> , 2010 , 136, 195-207 | 2.2 | 10 |
| 16 | Water Resources Utilization and Protection in the Coal Mining Area of Northern China. <i>Scientific Reports</i> , 2019 , 9, 1214 | 4.9 | 10 |
| 15 | Inhibitory Effects of Organic Acids on Bacteria Growth During Food Waste Composting. <i>Compost Science and Utilization</i> , 2010 , 18, 55-63 | 1.2 | 9 |
| 14 | A Decentralized Bi-Level Fuzzy Two-Stage Decision Model for Flood Management. <i>Water Resources Management</i> , 2018 , 32, 1615-1629 | 3.7 | 7 |
| 13 | A Fuzzy Simulation-Based Optimization Approach for Groundwater Remediation Design at Contaminated Aquifers. <i>Mathematical Problems in Engineering</i> , 2012 , 2012, 1-13 | 1.1 | 7 |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|
| 12 | Modeling Biosurfactant-Enhanced Bioremediation Processes for Petroleum-Contaminated Sites. <i>Petroleum Science and Technology</i> , 2010 , 28, 1211-1221 | 1.4 | 5 |
| 11 | DESPU: Dynamic Optimization for Energy Systems Planning Under Uncertainty. <i>Energy Sources, Part B: Economics, Planning and Policy</i> , 2011 , 6, 321-338 | 3.1 | 4 |
| 10 | Two-Stage Fracturing Wastewater Management in Shale Gas Development. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 1570-1579 | 3.9 | 3 |
| 9 | gCN-P: a coupled g-CN/persulfate system for photocatalytic degradation of organic pollutants under simulated sunlight. <i>Environmental Science and Pollution Research</i> , 2021 , 1 | 5.1 | 2 |
| 8 | Development of a decision support system for groundwater pollution control at coal-mining contaminated sites | | 1 |
| 7 | 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 | 3.6 | 1 |
| 6 | Efficient degradation of bisphenol a with MoS/BiVO hetero-nanoflower as a heterogenous peroxymonosulfate activator under visible-light irradiation. <i>Chemosphere</i> , 2021 , 289, 133158 | 8.4 | 1 |
| 5 | Regional-scale water-energy nexus management by a mixed Possibilistic-Flexible robust nonlinear programming model. <i>Journal of Hydrology</i> , 2021 , 603, 126852 | 6 | 1 |
| 4 | Improved remediation of co-contaminated soils by heavy metals and PAHs with biosurfactant-enhanced soil washing.. <i>Scientific Reports</i> , 2022 , 12, 3801 | 4.9 | 1 |
| 3 | 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 | 8.4 | 0 |
| 2 | Robust decision support for seawater desalination system management under consideration of environmental pollution control.. <i>Environmental Science and Pollution Research</i> , 2022 , 1 | 5.1 | |
| 1 | A simulation-optimization approach for supporting conservative water allocation under uncertainties.. <i>Journal of Environmental Management</i> , 2022 , 315, 115073 | 7.9 | |