

Guanhui Cheng

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

57
papers

943
citations

16
h-index

28
g-index

60
ext. papers

1,141
ext. citations

5.1
avg, IF

4.43
L-index

#	Paper	IF	Citations
57	Multi-level factorial analysis for ensemble data-driven hydrological prediction. <i>Advances in Water Resources</i> , 2021 , 153, 103948	4.7	4
56	Stochastic Rainwater Harvesting System Modeling Under Random Rainfall Features and Variable Water Demands. <i>Water Resources Research</i> , 2021 , 57, e2021WR029731	5.4	1
55	Offshore wind can power Canada. <i>Energy</i> , 2021 , 236, 121422	7.9	6
54	Input-output modeling analysis with a detailed disaggregation of energy sectors for climate change policy-making: A case study of Saskatchewan, Canada. <i>Renewable Energy</i> , 2020 , 151, 1307-1317	8.1	15
53	Assessment of climate change impacts on energy capacity planning in Ontario, Canada using high-resolution regional climate model. <i>Journal of Cleaner Production</i> , 2020 , 274, 123026	10.3	5
52	Analyzing the Biochemical Alteration of Green Algae During Chronic Exposure to Triclosan Based on Synchrotron-Based Fourier Transform Infrared Spectromicroscopy. <i>Analytical Chemistry</i> , 2019 , 91, 7798-7806	7.8	7
51	An optimization model under interval and fuzzy uncertainties for a by-product gas system of an iron and steel plant. <i>Engineering Optimization</i> , 2019 , 51, 447-464	2	2
50	Nanomaterials in the Environment: Research Hotspots and Trends. <i>International Journal of Environmental Research and Public Health</i> , 2019 , 16,	4.6	6
49	Examining the applicability of different sampling techniques in the development of decomposition-based streamflow forecasting models. <i>Journal of Hydrology</i> , 2019 , 568, 534-550	6	56
48	Wastewater treatment in amine-based carbon capture. <i>Chemosphere</i> , 2019 , 222, 742-756	8.4	11
47	Climate warming will not decrease perceived low-temperature extremes in China. <i>Climate Dynamics</i> , 2019 , 52, 5641-5656	4.2	8
46	Resources and environmental systems management under synchronic interval uncertainties. <i>Stochastic Environmental Research and Risk Assessment</i> , 2018 , 32, 435-456	3.5	1
45	Dynamic simulation of a duckweed-dominated wetland in north China based on a system dynamics model. <i>Ecological Indicators</i> , 2018 , 92, 268-277	5.8	2
44	Interval joint-probabilistic chance-constrained programming with two-side multi-randomness: an application to energy-environment systems management. <i>Stochastic Environmental Research and Risk Assessment</i> , 2018 , 32, 2093-2110	3.5	2
43	PRECIS-projected increases in temperature and precipitation over Canada. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2018 , 144, 588-603	6.4	11
42	A coupled dynamical-copula downscaling approach for temperature projections over the Canadian Prairies. <i>Climate Dynamics</i> , 2018 , 51, 2413-2431	4.2	18
41	Dynamically-downscaled temperature and precipitation changes over Saskatchewan using the PRECIS model. <i>Climate Dynamics</i> , 2018 , 50, 1321-1334	4.2	9

40	Water Resources and Farmland Management in the Songhua River Watershed under Interval and Fuzzy Uncertainties. <i>Water Resources Management</i> , 2018 , 32, 4177-4200	3.7	7
39	Future Changes in Precipitation Extremes Over Canada: Driving Factors and Inherent Mechanism. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 5783-5803	4.4	12
38	Hydrologic Impacts of Ensemble-RCM-Projected Climate Changes in the Athabasca River Basin, Canada. <i>Journal of Hydrometeorology</i> , 2018 , 19, 1953-1971	3.7	10
37	High-resolution projections of mean and extreme precipitations over China through PRECIS under RCPs. <i>Climate Dynamics</i> , 2018 , 50, 4037-4060	4.2	18
36	Convex contractive interval linear programming for resources and environmental systems management. <i>Stochastic Environmental Research and Risk Assessment</i> , 2017 , 31, 205-224	3.5	14
35	Distributed mixed-integer fuzzy hierarchical programming for municipal solid waste management. Part I: System identification and methodology development. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 7236-7252	5.1	12
34	Regional heuristic interval recourse power system analysis for electricity and environmental systems planning in Eastern China. <i>Resources, Conservation and Recycling</i> , 2017 , 122, 185-201	11.9	9
33	High-resolution projections of 21st century climate over the Athabasca River Basin through an integrated evaluation-classification-downscaling-based climate projection framework. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 2595-2615	4.4	10
32	Distributed mixed-integer fuzzy hierarchical programming for municipal solid waste management. Part II: scheme analysis and mechanism revelation. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 8711-8721	5.1	7
31	Effects of freeze-thawing cycles on desorption behaviors of PAH-contaminated soil in the presence of a biosurfactant: a case study in western Canada. <i>Environmental Sciences: Processes and Impacts</i> , 2017 , 19, 874-882	4.3	8
30	An Evaluation of CMIP5 GCM Simulations over the Athabasca River Basin, Canada. <i>River Research and Applications</i> , 2017 , 33, 823-843	2.3	8
29	Identification of water quality management policy of watershed system with multiple uncertain interactions using a multi-level-factorial risk-inference-based possibilistic-probabilistic programming approach. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 14980-15000	5.1	19
28	Investigation of Changes in Extreme Temperature and Humidity Over China Through a Dynamical Downscaling Approach. <i>Earth's Future</i> , 2017 , 5, 1136-1155	7.9	11
27	Municipal solid waste management planning for Xiamen City, China: a stochastic fractional inventory-theory-based approach. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 24243-24260	5.1	11
26	Factorial inferential grid grouping and representativeness analysis for a systematic selection of representative grids. <i>Earth and Space Science</i> , 2017 , 4, 554-573	3.1	0
25	Recursive multivariate principal-monotonicity inferential climate downscaling. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2017 , 143, 2780-2796	6.4	5
24	Climate classification through recursive multivariate statistical inferences: a case study of the Athabasca River Basin, Canada. <i>International Journal of Climatology</i> , 2017 , 37, 1001-1012	3.5	8
23	Allelopathy Inhibitory Effects of <i>Hydrodictyon reticulatum</i> on <i>Chlorella pyrenoidosa</i> under Co-Culture and Liquor-Cultured Conditions. <i>Water (Switzerland)</i> , 2017 , 9, 416	3	7

22	A Stepwise-Cluster Inference Model for Phenanthrene Immobilization at the Aqueous/Modified Palygorskite Interface. <i>Water (Switzerland)</i> , 2017 , 9, 590	3	
21	Evaluation of Uncertainties in Input Data and Parameters of a Hydrological Model Using a Bayesian Framework: A Case Study of a Snowmelt-Precipitation-Driven Watershed. <i>Journal of Hydrometeorology</i> , 2016 , 17, 2333-2350	3.7	14
20	Planning renewable energy in electric power system for sustainable development under uncertainty: A case study of Beijing. <i>Applied Energy</i> , 2016 , 162, 772-786	10.7	33
19	Discrete principal-monotonicity inference for hydro-system analysis under irregular nonlinearities, data uncertainties, and multivariate dependencies. Part I: methodology development. <i>Hydrological Processes</i> , 2016 , 30, 4255	3.3	15
18	Discrete principal-monotonicity inference for hydro-system analysis under irregular nonlinearities, data uncertainties, and multivariate dependencies. Part II: Application to streamflow simulation in the Xingshan Watershed, China. <i>Hydrological Processes</i> , 2016 , 30, 4273	3.3	6
17	Bayesian interval robust optimization for sustainable energy system planning in Qiqihar City, China. <i>Energy Economics</i> , 2016 , 60, 357-376	8.3	13
16	Groundwater level prediction using a SOM-aided stepwise cluster inference model. <i>Journal of Environmental Management</i> , 2016 , 182, 308-321	7.9	30
15	A stepwise-cluster forecasting approach for monthly streamflows based on climate teleconnections. <i>Stochastic Environmental Research and Risk Assessment</i> , 2015 , 29, 1557-1569	3.5	32
14	Development of a Stepwise-Clustered Hydrological Inference Model. <i>Journal of Hydrologic Engineering - ASCE</i> , 2015 , 20, 04015008	1.8	27
13	Synchronic interval Gaussian mixed-integer programming for air quality management. <i>Science of the Total Environment</i> , 2015 , 538, 986-996	10.2	14
12	Fuzzy interval programming for energy and environmental systems management under constraint-violation and energy-substitution effects: A case study for the City of Beijing. <i>Energy Economics</i> , 2014 , 46, 375-394	8.3	15
11	Hardness, COD and turbidity removals from produced water by electrocoagulation pretreatment prior to Reverse Osmosis membranes. <i>Desalination</i> , 2014 , 344, 454-462	10.3	121
10	A Two-Stage Fuzzy Chance-Constrained Model for Solid Waste Allocation Planning. <i>Journal of Environmental Informatics</i> , 2014 , 24, 101-110	3	22
9	A stepwise cluster analysis approach for downscaled climate projection: A Canadian case study. <i>Environmental Modelling and Software</i> , 2013 , 49, 141-151	5.2	57
8	A Hybrid Dynamic Dual Interval Programming for Irrigation Water Allocation under Uncertainty. <i>Water Resources Management</i> , 2012 , 26, 1183-1200	3.7	26
7	Planning of municipal solid waste management systems under dual uncertainties: a hybrid interval stochastic programming approach. <i>Stochastic Environmental Research and Risk Assessment</i> , 2009 , 23, 707-720	3.5	31
6	Development of an inexact optimization model for coupled coal and power management in North China. <i>Energy Policy</i> , 2009 , 37, 4345-4363	7.2	43
5	A fuzzy linear programming approach for municipal solid-waste management under uncertainty. <i>Engineering Optimization</i> , 2009 , 41, 1081-1101	2	21

4	Development of a stepwise-clustered multi-catchment hydrological model for quantifying interactions in regional climate-runoff relationships. <i>Water Resources Research</i> ,	5.4	1
3	Planning Regional Water Resources System Using an Interval Fuzzy Bi-Level Programming Method. <i>Journal of Environmental Informatics</i> ,43-56	3	68
2	Interval Recourse Linear Programming for Resources and Environmental Systems Management under Uncertainty. <i>Journal of Environmental Informatics</i> ,	3	13
1	A sustainable road pricing oriented bilevel optimization approach under multiple environmental uncertainties. <i>International Journal of Sustainable Transportation</i> ,1-28	3.6	