Guanhui Cheng

List of Publications by Year
in descending order

59 papers	1,318 citations	394286 19 h-index	414303 32 g-index
60 all docs	60 docs citations	60 times ranked	1130 citing authors

#	Article	IF	Citations
1	Hardness, COD and turbidity removals from produced water by electrocoagulation pretreatment prior to Reverse Osmosis membranes. Desalination, 2014, 344, 454-462.	4.0	157
2	Examining the applicability of different sampling techniques in the development of decomposition-based streamflow forecasting models. Journal of Hydrology, 2019, 568, 534-550.	2.3	91
3	A stepwise cluster analysis approach for downscaled climate projection â€" A Canadian case study. Environmental Modelling and Software, 2013, 49, 141-151.	1.9	80
4	Planning Regional Water Resources System Using an Interval Fuzzy Bi-Level Programming Method. Journal of Environmental Informatics, 0, , 43-56.	6.0	78
5	Development of an inexact optimization model for coupled coal and power management in North China. Energy Policy, 2009, 37, 4345-4363.	4.2	49
6	Planning of municipal solid waste management systems under dual uncertainties: a hybrid interval stochastic programming approach. Stochastic Environmental Research and Risk Assessment, 2009, 23, 707-720.	1.9	39
7	Planning renewable energy in electric power system for sustainable development under uncertainty â€" A case study of Beijing. Applied Energy, 2016, 162, 772-786.	5.1	39
8	A stepwise-cluster forecasting approach for monthly streamflows based on climate teleconnections. Stochastic Environmental Research and Risk Assessment, 2015, 29, 1557-1569.	1.9	38
9	Development of a Stepwise-Clustered Hydrological Inference Model. Journal of Hydrologic Engineering - ASCE, 2015, 20, .	0.8	38
10	Groundwater level prediction using a SOM-aided stepwise cluster inference model. Journal of Environmental Management, 2016, 182, 308-321.	3.8	37
11	A Hybrid Dynamic Dual Interval Programming for Irrigation Water Allocation under Uncertainty. Water Resources Management, 2012, 26, 1183-1200.	1.9	33
12	A fuzzy linear programming approach for municipal solid-waste management under uncertainty. Engineering Optimization, 2009, 41, 1081-1101.	1.5	28
13	Input-output modeling analysis with a detailed disaggregation of energy sectors for climate change policy-making: A case study of Saskatchewan, Canada. Renewable Energy, 2020, 151, 1307-1317.	4.3	28
14	A coupled dynamical-copula downscaling approach for temperature projections over the Canadian Prairies. Climate Dynamics, 2018, 51, 2413-2431.	1.7	27
15	High-resolution projections of mean and extreme precipitations over China through PRECIS under RCPs. Climate Dynamics, 2018, 50, 4037-4060.	1.7	26
16	Discrete principalâ€"monotonicity inference for hydroâ€"system analysis under irregular nonlinearities, data uncertainties, and multivariate dependencies. Part I: methodology development. Hydrological Processes, 2016, 30, 4255-4272.	1.1	25
17	A Two-Stage Fuzzy Chance-Constrained Model for Solid Waste Allocation Planning. Journal of Environmental Informatics, 2014, 24, 101-110.	6.0	24
18	Evaluation of Uncertainties in Input Data and Parameters of a Hydrological Model Using a Bayesian Framework: A Case Study of a Snowmeltâ€"Precipitation-Driven Watershed. Journal of Hydrometeorology, 2016, 17, 2333-2350.	0.7	22

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19	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. Environmental Science and Pollution Research, 2017, 24, 14980-15000.	2.7	22
20	Investigation of Changes in Extreme Temperature and Humidity Over China Through a Dynamical Downscaling Approach. Earth's Future, 2017, 5, 1136-1155.	2.4	21
21	Future Changes in Precipitation Extremes Over Canada: Driving Factors and Inherent Mechanism. Journal of Geophysical Research D: Atmospheres, 2018, 123, 5783-5803.	1.2	20
22	Assessment of climate change impacts on energy capacity planning in Ontario, Canada using high-resolution regional climate model. Journal of Cleaner Production, 2020, 274, 123026.	4.6	19
23	Offshore wind can power Canada. Energy, 2021, 236, 121422.	4.5	19
24	Fuzzy interval programming for energy and environmental systems management under constraint-violation and energy-substitution effects: A case study for the City of Beijing. Energy Economics, 2014, 46, 375-394.	5.6	18
25	Hydrologic Impacts of Ensemble-RCM-Projected Climate Changes in the Athabasca River Basin, Canada. Journal of Hydrometeorology, 2018, 19, 1953-1971.	0.7	18
26	Bayesian interval robust optimization for sustainable energy system planning in Qiqihar City, China. Energy Economics, 2016, 60, 357-376.	5.6	17
27	Wastewater treatment in amine-based carbon capture. Chemosphere, 2019, 222, 742-756.	4.2	17
28	Convex contractive interval linear programming for resources and environmental systems management. Stochastic Environmental Research and Risk Assessment, 2017, 31, 205-224.	1.9	16
29	High‐resolution projections of 21st century climate over the Athabasca River Basin through an integrated evaluation‐classification‐downscaling‐based climate projection framework. Journal of Geophysical Research D: Atmospheres, 2017, 122, 2595-2615.	1.2	16
30	Distributed mixed-integer fuzzy hierarchical programming for municipal solid waste management. Part I: System identification and methodology development. Environmental Science and Pollution Research, 2017, 24, 7236-7252.	2.7	15
31	PRECIS‐projected increases in temperature and precipitation over Canada. Quarterly Journal of the Royal Meteorological Society, 2018, 144, 588-603.	1.0	15
32	Synchronic interval Gaussian mixed-integer programming for air quality management. Science of the Total Environment, 2015, 538, 986-996.	3.9	14
33	Climate classification through recursive multivariate statistical inferences: a case study of the Athabasca River Basin, Canada. International Journal of Climatology, 2017, 37, 1001-1012.	1.5	14
34	Water Resources and Farmland Management in the Songhua River Watershed under Interval and Fuzzy Uncertainties. Water Resources Management, 2018, 32, 4177-4200.	1.9	14
35	Interval Recourse Linear Programming for Resources and Environmental Systems Management under Uncertainty. Journal of Environmental Informatics, 0, , .	6.0	14
36	Municipal solid waste management planning for Xiamen City, China: a stochastic fractional inventory-theory-based approach. Environmental Science and Pollution Research, 2017, 24, 24243-24260.	2.7	13

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37	Dynamically-downscaled temperature and precipitation changes over Saskatchewan using the PRECIS model. Climate Dynamics, 2018, 50, 1321-1334.	1.7	13
38	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. Hydrological Processes, 2016, 30, 4273-4291.	1.1	12
39	An Evaluation of *CMIP5 GCM* Simulations over the Athabasca River Basin, Canada. River Research and Applications, 2017, 33, 823-843.	0.7	12
40	Climate warming will not decrease perceived low-temperature extremes in China. Climate Dynamics, 2019, 52, 5641-5656.	1.7	12
41	Multi-level factorial analysis for ensemble data-driven hydrological prediction. Advances in Water Resources, 2021, 153, 103948.	1.7	12
42	Regional heuristic interval recourse power system analysis for electricity and environmental systems planning in Eastern China. Resources, Conservation and Recycling, 2017, 122, 185-201.	5.3	11
43	Allelopathy Inhibitory Effects of Hydrodictyon reticulatum on Chlorella pyrenoidosa under Co-Culture and Liquor-Cultured Conditions. Water (Switzerland), 2017, 9, 416.	1.2	11
44	Effects of freeze–thawing cycles on desorption behaviors of PAH-contaminated soil in the presence of a biosurfactant: a case study in western Canada. Environmental Sciences: Processes and Impacts, 2017, 19, 874-882.	1.7	10
45	Analyzing the Biochemical Alteration of Green Algae During Chronic Exposure to Triclosan Based on Synchrotron-Based Fourier Transform Infrared Spectromicroscopy. Analytical Chemistry, 2019, 91, 7798-7806.	3.2	10
46	Distributed mixed-integer fuzzy hierarchical programming for municipal solid waste management. Part II: scheme analysis and mechanism revelation.. Environmental Science and Pollution Research, 2017, 24, 8711-8721.	2.7	9
47	Nanomaterials in the Environment: Research Hotspots and Trends. International Journal of Environmental Research and Public Health, 2019, 16, 5138.	1.2	9
48	Recursive multivariate principal–monotonicity inferential climate downscaling. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 2780-2796.	1.0	6
49	Stochastic Rainwater Harvesting System Modeling Under Random Rainfall Features and Variable Water Demands. Water Resources Research, 2021, 57, e2021WR029731.	1.7	5
50	Development of a Stepwise–Clustered Multi–Catchment Hydrological Model for Quantifying Interactions in Regional Climate–Runoff Relationships. Water Resources Research, 2022, 58, .	1.7	5
51	Dynamic simulation of a duckweed-dominated wetland in north China based on a system dynamics model. Ecological Indicators, 2018, 92, 268-277.	2.6	4
52	An optimization model under interval and fuzzy uncertainties for a by-product gas system of an iron and steel plant. Engineering Optimization, 2019, 51, 447-464.	1.5	4
53	Factorial inferential grid grouping and representativeness analysis for a systematic selection of representative grids. Earth and Space Science, 2017, 4, 554-573.	1.1	3
54	Interval joint-probabilistic chance-constrained programming with two-side multi-randomness: an application to energy-environment systems management. Stochastic Environmental Research and Risk Assessment, 2018, 32, 2093-2110.	1.9	3

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55	A sustainable road pricing oriented bilevel optimization approach under multiple environmental uncertainties. International Journal of Sustainable Transportation, 2022, 16, 152-165.	2.1	2
56	Multifactorial Principal–Monotonicity Inference for Macro–Scale Distributed Hydrologic Modeling. Water Resources Research, 2022, 58, .	1.7	2
57	Resources and environmental systems management under synchronic interval uncertainties. Stochastic Environmental Research and Risk Assessment, 2018, 32, 435-456.	1.9	1
58	A Risk-averse Two-Stage Stochastic Optimization Model for Water Resources Alloca-tion under Uncertainty. Journal of Environmental Accounting and Management, 2018, 6, 71-82.	0.3	1
59	A Stepwise-Cluster Inference Model for Phenanthrene Immobilization at the Aqueous/Modified Palygorskite Interface. Water (Switzerland), 2017, 9, 590.	1.2	0