

Yanpeng Cai

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111
papers

1,470
citations

22
h-index

34
g-index

115
ext. papers

1,998
ext. citations

5.9
avg, IF

5.17
L-index

#	Paper	IF	Citations
111	A Review on Optimization Modeling of Energy Systems Planning and GHG Emission Mitigation under Uncertainty. <i>Energies</i> , 2011 , 4, 1624-1656	3.1	78
110	Municipal Solid Waste Management Under Uncertainty: A Mixed Interval Parameter Fuzzy-Stochastic Robust Programming Approach. <i>Environmental Engineering Science</i> , 2007 , 24, 338-352	2	75
109	Leaf carbon, nitrogen and phosphorus stoichiometry of <i>Tamarix chinensis</i> Lour. in the Laizhou Bay coastal wetland, China. <i>Ecological Engineering</i> , 2015 , 76, 57-65	3.9	69
108	Risk assessment of water pollution sources based on an integrated k-means clustering and set pair analysis method in the region of Shiyuan, China. <i>Science of the Total Environment</i> , 2016 , 557-558, 307-16	10.2	50
107	Integrated risk analysis of water-energy nexus systems based on systems dynamics, orthogonal design and copula analysis. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 99, 125-137	16.2	50
106	An export coefficient based inexact fuzzy bi-level multi-objective programming model for the management of agricultural nonpoint source pollution under uncertainty. <i>Journal of Hydrology</i> , 2018 , 557, 713-725	6	46
105	An improved multi-objective optimization model for supporting reservoir operation of China's South-to-North Water Diversion Project. <i>Science of the Total Environment</i> , 2017 , 575, 970-981	10.2	45
104	Development of an Inexact Fuzzy Robust Programming Model for Integrated Evacuation Management under Uncertainty. <i>Journal of the Urban Planning and Development Division, ASCE</i> , 2009 , 135, 39-49	2.2	42
103	A Superiority-Inferiority-Based Inexact Fuzzy Stochastic Programming Approach for Solid Waste Management Under Uncertainty. <i>Environmental Modeling and Assessment</i> , 2010 , 15, 381-396	2	42
102	An enhanced export coefficient based optimization model for supporting agricultural nonpoint source pollution mitigation under uncertainty. <i>Science of the Total Environment</i> , 2017 , 580, 1351-1362	10.2	41
101	A hybrid life-cycle and fuzzy-set-pair analyses approach for comprehensively evaluating impacts of industrial wastewater under uncertainty. <i>Journal of Cleaner Production</i> , 2014 , 80, 57-68	10.3	41
100	Spatiotemporal analysis of precipitation trends under climate change in the upper reach of Mekong River basin. <i>Quaternary International</i> , 2016 , 392, 137-146	2	37
99	A comparison of metal distribution in surface dust and soil among super city, town, and rural area. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 7849-60	5.1	35
98	Optimal strategies for carbon reduction at dual levels in China based on a hybrid nonlinear grey-prediction and quota-allocation model. <i>Journal of Cleaner Production</i> , 2014 , 83, 185-193	10.3	35
97	Development of an integrated modeling approach for identifying multilevel non-point-source priority management areas at the watershed scale. <i>Water Resources Research</i> , 2014 , 50, 4095-4109	5.4	31
96	A multi-stage fuzzy stochastic programming method for water resources management with the consideration of ecological water demand. <i>Ecological Indicators</i> , 2018 , 95, 930-938	5.8	31
95	Coupled planning of water resources and agricultural landuse based on an inexact-stochastic programming model. <i>Frontiers of Earth Science</i> , 2014 , 8, 70-80	1.7	30

94	Application of Wall and Insulation Materials on Green Building: A Review. <i>Sustainability</i> , 2018 , 10, 3331	3.6	30
93	An improved method for integrated water security assessment in the Yellow River basin, China. <i>Stochastic Environmental Research and Risk Assessment</i> , 2015 , 29, 2213-2227	3.5	29
92	Bayesian network-based risk assessment for hazmat transportation on the Middle Route of the South-to-North Water Transfer Project in China. <i>Stochastic Environmental Research and Risk Assessment</i> , 2016 , 30, 841-857	3.5	28
91	Labyrinths in large reservoirs: An invisible barrier to fish migration and the solution through reservoir operation. <i>Water Resources Research</i> , 2017 , 53, 817-831	5.4	27
90	Fertile island Effects of <i>Tamarix chinensis</i> Lour. on soil N and P stoichiometry in the coastal wetland of Laizhou Bay, China. <i>Journal of Soils and Sediments</i> , 2016 , 16, 864-877	3.4	26
89	The Future of Sustainable Energy Production in Pakistan: A System Dynamics-Based Approach for Estimating Hubbert Peaks. <i>Energies</i> , 2017 , 10, 1858	3.1	22
88	An Integrated Approach of System Dynamics, Orthogonal Experimental Design and Inexact Optimization for Supporting Water Resources Management under Uncertainty. <i>Water Resources Management</i> , 2017 , 31, 1665-1694	3.7	21
87	A Bayesian Network-based risk dynamic simulation model for accidental water pollution discharge of mine tailings ponds at watershed-scale. <i>Journal of Environmental Management</i> , 2019 , 246, 821-831	7.9	21
86	Variation analysis of streamflow and ecological flow for the twin rivers of the Miyun Reservoir Basin in northern China from 1963 to 2011. <i>Science of the Total Environment</i> , 2015 , 536, 739-749	10.2	21
85	Hydrological Responses to Climate and Land Use Changes in a Watershed of the Loess Plateau, China. <i>Sustainability</i> , 2019 , 11, 1443	3.6	20
84	Identifying priority management intervals of discharge and TN/TP concentration with copula analysis for Miyun Reservoir inflows, North China. <i>Science of the Total Environment</i> , 2017 , 609, 1258-1269	10.2	18
83	Effects of Urban Non-Point Source Pollution from Baoding City on Baiyangdian Lake, China. <i>Water (Switzerland)</i> , 2017 , 9, 249	3	18
82	An Inexact Mix-Integer Two-Stage Linear Programming Model for Supporting the Management of a Low-Carbon Energy System in China. <i>Energies</i> , 2011 , 4, 1657-1686	3.1	18
81	Environmentally-extended input-output and ecological network analysis for Energy-Water-CO ₂ metabolic system in China. <i>Science of the Total Environment</i> , 2021 , 758, 143931	10.2	17
80	Sharing tableware reduces waste generation, emissions and water consumption in China: a takeaway packaging waste dilemma. <i>Nature Food</i> , 2020 , 1, 552-561	14.4	16
79	An Integrated Investigation of Spatiotemporal Habitat Quality Dynamics and Driving Forces in the Upper Basin of Miyun Reservoir, North China. <i>Sustainability</i> , 2018 , 10, 4625	3.6	16
78	Urban energy consumption and related carbon emission estimation: a study at the sector scale. <i>Frontiers of Earth Science</i> , 2013 , 7, 480-486	1.7	15
77	Monetary Valuation of PM ₁₀ -Related Health Risks in Beijing China: The Necessity for PM ₁₀ Pollution Indemnity. <i>International Journal of Environmental Research and Public Health</i> , 2015 , 12, 9967-874	4.6	15

76	Cleaner and Sustainable Energy Production in Pakistan: Lessons Learnt from the Pak-TIMES Model. <i>Energies</i> , 2020 , 13, 108	3.1	14
75	Inexact Optimization Model for Supporting Waste-Load Allocation in the Xiangxi River Basin of the Three Gorges Reservoir Region, China. <i>Journal of Computing in Civil Engineering</i> , 2015 , 29, 04014093	5	13
74	Climatic variations within the dry valleys in southwestern China and the influences of artificial reservoirs. <i>Climatic Change</i> , 2019 , 155, 111-125	4.5	12
73	Management optimization of nonpoint source pollution considering the risk of exceeding criteria under uncertainty. <i>Science of the Total Environment</i> , 2021 , 758, 143659	10.2	12
72	Identification of optimal strategies for agricultural nonpoint source management in Ulansuhai Nur watershed of Inner Mongolia, China. <i>Stochastic Environmental Research and Risk Assessment</i> , 2016 , 30, 137-153	3.5	11
71	Interval Optimization Model Considering Terrestrial Ecological Impacts for Water Rights Transfer from Agriculture to Industry in Ningxia, China. <i>Scientific Reports</i> , 2017 , 7, 3465	4.9	11
70	A multi-scale integrated modeling framework to measure comprehensive impact of coastal reclamation activities in Yellow River estuary, China. <i>Marine Pollution Bulletin</i> , 2017 , 122, 27-37	6.7	11
69	Dynamic flows of polyethylene terephthalate (PET) plastic in China. <i>Waste Management</i> , 2021 , 124, 273-282	8.2	11
68	Analysis of urban carbon metabolism characteristics based on provincial input-output tables. <i>Journal of Environmental Management</i> , 2020 , 265, 110561	7.9	11
67	Adaptation strategies for mitigating agricultural GHG emissions under dual-level uncertainties with the consideration of global warming impacts. <i>Stochastic Environmental Research and Risk Assessment</i> , 2017 , 31, 961-979	3.5	10
66	NDVI dynamics under changing meteorological factors in a shallow lake in future metropolitan, semiarid area in North China. <i>Scientific Reports</i> , 2018 , 8, 15971	4.9	10
65	Evaluation of Groundwater Remediation Technologies Based on Fuzzy Multi-Criteria Decision Analysis Approaches. <i>Water (Switzerland)</i> , 2017 , 9, 443	3	8
64	Agricultural non-point source pollution management in a reservoir watershed based on ecological network analysis of soil nitrogen cycling. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 9071-9084	5.1	8
63	Robust Planning of Environmental Management Systems with Adjustable Conservativeness under Compound Uncertainty. <i>Journal of Environmental Engineering, ASCE</i> , 2012 , 138, 208-222	2	8
62	On the accuracy of official Chinese crop production data: Evidence from biophysical indexes of net primary production. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 25434-25444	11.5	8
61	Warming Effects on Periphyton Community and Abundance in Different Seasons Are Influenced by Nutrient State and Plant Type: A Shallow Lake Mesocosm Study. <i>Frontiers in Plant Science</i> , 2020 , 11, 404	6.2	8
60	Combined toxicity of micro/nano scale polystyrene plastics and ciprofloxacin to <i>Corbicula fluminea</i> in freshwater sediments. <i>Science of the Total Environment</i> , 2021 , 789, 147887	10.2	8
59	A simulation-based bi-level multi-objective programming model for watershed water quality management under interval and stochastic uncertainties. <i>Journal of Environmental Management</i> , 2019 , 245, 418-431	7.9	7

58	Modeling Framework for Reservoir Capacity Planning Accounting for Fish Migration. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2020 , 146, 04020006	2.8	7
57	New model to assessing nutrient assimilative capacity in plant-dominated lakes: Considering ecological effects of hydrological changes. <i>Ecological Modelling</i> , 2016 , 332, 94-102	3	7
56	Exploring the influence of reservoir impoundment on surrounding tree growth. <i>Advances in Water Resources</i> , 2021 , 153, 103946	4.7	7
55	Effects of submerged vegetation on sediment nitrogen-cycling bacterial communities in Honghu Lake (China). <i>Science of the Total Environment</i> , 2021 , 755, 142541	10.2	7
54	Radial Growth Responses to Climate of Pinus yunnanensis at Low Elevations of the Hengduan Mountains, China. <i>Forests</i> , 2020 , 11, 1066	2.8	6
53	Development of an integrated indicator system to assess the impacts of reclamation engineering on a river estuary. <i>Marine Pollution Bulletin</i> , 2017 , 119, 50-59	6.7	5
52	Industrial water resources management based on violation risk analysis of the total allowable target on wastewater discharge. <i>Scientific Reports</i> , 2017 , 7, 5055	4.9	5
51	Key factors controlling transport of micro- and nanoplastic in porous media and its effect on coexisting pollutants. <i>Environmental Pollution</i> , 2021 , 293, 118503	9.3	5
50	Climatic and anthropogenic impacts on water and sediment generation in the middle reach of the Jinsha River Basin. <i>River Research and Applications</i> , 2020 , 36, 338-350	2.3	5
49	Visualization and Analysis of Mapping Knowledge Domains for Food Waste Studies. <i>International Journal of Environmental Research and Public Health</i> , 2021 , 18,	4.6	5
48	Regional agricultural water resources management with respect to fuzzy return and energy constraint under uncertainty: An integrated optimization approach. <i>Journal of Contaminant Hydrology</i> , 2021 , 242, 103863	3.9	5
47	An integrated approach for early warning of water stress in shallow lakes: a case study in Lake Baiyangdian, North China. <i>Lake and Reservoir Management</i> , 2013 , 29, 285-302	1.3	4
46	Impacts of COVID-19 pandemic on the aquatic environment associated with disinfection byproducts and pharmaceuticals. <i>Science of the Total Environment</i> , 2021 , 151409	10.2	4
45	Hydrological management for improving nutrient assimilative capacity in plant-dominated wetlands: A modelling approach. <i>Journal of Environmental Management</i> , 2016 , 177, 84-92	7.9	4
44	Effects of reservoir operation methods on downstream ecological disturbance and economic benefits. <i>River Research and Applications</i> , 2019 , 35, 955-965	2.3	3
43	Estimation of Soil Respiration by Its Driving Factors Based on Multi-Source Data in a Sub-Alpine Meadow in North China. <i>Sustainability</i> , 2019 , 11, 3274	3.6	3
42	Genetic Projection Pursuit Interpolation Model for Social Renewability Assessment of Water Resources 2008 ,		3
41	An inexact modeling approach for supporting water resources allocation under natural and social complexities in a border city of China and Myanmar. <i>Resources, Conservation and Recycling</i> , 2021 , 168, 105245	11.9	3

40	A stochastic modeling approach for analyzing water resources systems. <i>Journal of Contaminant Hydrology</i> , 2021 , 242, 103865	3.9	3
39	An approach for runoff and sediment nexus analysis under multi-flow conditions in a hyper-concentrated sediment river, Southwest China. <i>Journal of Contaminant Hydrology</i> , 2020 , 235, 103702	3.9	2
38	A simulation-optimization modeling approach for watershed-scale agricultural N2O emission mitigation under multi-level uncertainties. <i>Stochastic Environmental Research and Risk Assessment</i> , 2018 , 32, 2683-2697	3.5	2
37	Risks of airborne pollution accidents in a major conurbation: case study of Zhangjiakou, a host city for the 2022 Winter Olympics. <i>Stochastic Environmental Research and Risk Assessment</i> , 2018 , 32, 3257-3272	3.5	2
36	Inclusion of Ecological Water Requirements in Optimization of Water Resource Allocation Under Changing Climatic Conditions. <i>Water Resources Management</i> , 2022 , 36, 551-570	3.7	2
35	Role of deep-sea equipment in promoting the forefront of studies on life in extreme environments. <i>IScience</i> , 2021 , 24, 103299	6.1	2
34	Evaluation of multi-source precipitation data in a watershed with complex topography based on distributed hydrological modeling. <i>River Research and Applications</i> , 2020 ,	2.3	2
33	Joint probability-based classifier based on vine copula method for land use classification of multispectral remote sensing data. <i>Earth Science Informatics</i> , 2020 , 13, 1079-1092	2.5	2
32	Urban Flood Analysis in Ungauged Drainage Basin Using Short-Term and High-Resolution Remotely Sensed Rainfall Records. <i>Remote Sensing</i> , 2021 , 13, 2204	5	2
31	An SPH-based mass transfer model for simulating hydraulic characteristics and mass transfer process of dammed rivers. <i>Engineering With Computers</i> ,1	4.5	2
30	Incorporating Fish Tolerance to Supersaturated Total Dissolved Gas for Generating Flood Pulse Discharge Patterns Based on a Simulation-Optimization Approach. <i>Water Resources Research</i> , 2021 , 57, e2021WR030167	5.4	2
29	An integrated simulation-optimization modeling system for water resources management under coupled impacts of climate and land use variabilities with priority in ecological protection. <i>Advances in Water Resources</i> , 2021 , 154, 103986	4.7	2
28	Impact of off-bottom seaweed cultivation on turbulent variation in the hydrodynamic environment: A flume experiment study with mimic and natural <i>Saccharina latissima</i> thalli. <i>Science of the Total Environment</i> , 2021 , 797, 149048	10.2	2
27	Water security assessment with the improvement of modifying the boundary consistency between footprint and provision. <i>Science of the Total Environment</i> , 2021 , 801, 149639	10.2	2
26	Life-cycle greenhouse gas emissions and the associated carbon-peak strategies for PS, PVC, and ABS plastics in China. <i>Resources, Conservation and Recycling</i> , 2022 , 182, 106295	11.9	2
25	Photocatalytic strategy to mitigate microplastic pollution in aquatic environments: Promising catalysts, efficiencies, mechanisms, and ecological risks. <i>Critical Reviews in Environmental Science and Technology</i> ,1-23	11.1	2
24	An Enhanced System with Macrophytes and Polyurethane Sponge as an Eco-Technology for Restoring Eutrophic Water: A Pilot Test. <i>Water (Switzerland)</i> , 2019 , 11, 1828	3	1
23	Development of a model-based flood emergency management system in Yujiang River Basin, South China. <i>Frontiers of Earth Science</i> , 2014 , 8, 231-241	1.7	1

22	Human activities affect the multidecadal microplastic deposition records in a subtropical urban lake, China.. <i>Science of the Total Environment</i> , 2022 , 820, 153187	10.2	1
21	Mitigating Drought Conditions under Climate and Land Use Changes by Applying Hedging Rules for the Multi-Reservoir System. <i>Water (Switzerland)</i> , 2021 , 13, 3095	3	1
20	A life-cycle perspective for analyzing carbon neutrality potential of polyethylene terephthalate (PET) plastics in China. <i>Journal of Cleaner Production</i> , 2022 , 330, 129872	10.3	1
19	Toxicity effects of ciprofloxacin on biochemical parameters, histological characteristics, and behaviors of <i>Corbicula fluminea</i> in different substrates. <i>Environmental Science and Pollution Research</i> , 2021 , 1	5.1	1
18	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
17	Prediction and optimization of regional land-use patterns considering nonpoint-source pollution control under conditions of uncertainty.. <i>Journal of Environmental Management</i> , 2022 , 306, 114432	7.9	1
16	The frontier evolution and emerging trends of hydrological connectivity in river systems: a scientometric review. <i>Frontiers of Earth Science</i> , 2021 , 15, 81-93	1.7	1
15	Copula-based exposure risk dynamic simulation of dual heavy metal mixed pollution accidents at the watershed scale. <i>Journal of Environmental Management</i> , 2021 , 277, 111481	7.9	1
14	A dual-randomness bi-level interval multi-objective programming model for regional water resources management. <i>Journal of Contaminant Hydrology</i> , 2021 , 241, 103816	3.9	1
13	An Improved Model for Investigating Dual Effects of Vegetation Density Variations and Groundwater Level Fluctuations on Water Transport and Dissipation in Raised Field Wetlands. <i>Wetlands</i> , 2020 , 40, 1241-1256	1.7	0
12	DNA metabarcoding reveals human impacts on macroinvertebrate communities in polluted headwater streams: Evidence from the Liao River in northeast China.. <i>Environmental Pollution</i> , 2022 , 300, 118929	9.3	0
11	An optimization model for water resources allocation in Dongjiang River Basin of Guangdong-Hong Kong-Macao Greater Bay Area under multiple complexities.. <i>Science of the Total Environment</i> , 2022 , 820, 153198	10.2	0
10	High discharge intensified low net ecosystem productivity, hypoxia, and acidification at three outlets of the Pearl River Estuary, China.. <i>Water Research</i> , 2022 , 214, 118171	12.5	0
9	Impacts of Climate Change on Urban Drainage Systems by Future Short-Duration Design Rainstorms. <i>Water (Switzerland)</i> , 2021 , 13, 2718	3	0
8	Seasonality and Species Specificity of Submerged Macrophyte Biomass in Shallow Lakes Under the Influence of Climate Warming and Eutrophication. <i>Frontiers in Plant Science</i> , 2021 , 12, 678259	6.2	0
7	Assessment of the water-energy-food nexus under spatial and social complexities: A case study of Guangdong-Hong Kong-Macao. <i>Journal of Environmental Management</i> , 2021 , 299, 113664	7.9	0
6	Material flow analysis of the nitrogen loading to surface water of Miyun reservoir watershed under uncertainty. <i>Journal of Cleaner Production</i> , 2022 , 131574	10.3	0
5	Coral-inspired environmental durability aerogels for micron-size plastic particles removal in the aquatic environment.. <i>Journal of Hazardous Materials</i> , 2022 , 431, 128611	12.8	0

- 4 An improved interior-outer-set model framework for flood hazard analysis. *Stochastic Environmental Research and Risk Assessment*, **2020**, 34, 1543-1558 3.5
- 3 A projects portfolio selection for water security addressing future increasing water demand and salinity intrusion in Zhuhai City, coastal China. *Journal of Contaminant Hydrology*, **2021**, 242, 103846 3.9
- 2 Algal migration and nutrient enrichment contribute to patterns in phytoplankton versus epiphyton communities. *Science of the Total Environment*, **2021**, 795, 148747 10.2
- 1 A simulation-optimization approach for supporting conservative water allocation under uncertainties.. *Journal of Environmental Management*, **2022**, 315, 115073 7.9