

Yanpeng Cai

List of Publications by Year in descending order

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115
papers

2,609
citations

159358

30
h-index

243296

44
g-index

115
all docs

115
docs citations

115
times ranked

2130
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	1.6	112
2	A Review on Optimization Modeling of Energy Systems Planning and GHG Emission Mitigation under Uncertainty. <i>Energies</i> , 2011, 4, 1624-1656.	1.6	93
3	Risk assessment of water pollution sources based on an integrated k-means clustering and set pair analysis method in the region of Shiyao, China. <i>Science of the Total Environment</i> , 2016, 557-558, 307-316.	3.9	83
4	Municipal Solid Waste Management Under Uncertainty: A Mixed Interval Parameter Fuzzy-Stochastic Robust Programming Approach. <i>Environmental Engineering Science</i> , 2007, 24, 338-352.	0.8	81
5	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.	8.2	81
6	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.	3.9	65
7	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.	2.3	62
8	Application of Wall and Insulation Materials on Green Building: A Review. <i>Sustainability</i> , 2018, 10, 3331.	1.6	61
9	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.	3.9	58
10	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.	3.9	54
11	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.	1.2	52
12	Sharing tableware reduces waste generation, emissions and water consumption in China's takeaway packaging waste dilemma. <i>Nature Food</i> , 2020, 1, 552-561.	6.2	52
13	Dynamic flows of polyethylene terephthalate (PET) plastic in China. <i>Waste Management</i> , 2021, 124, 273-282.	3.7	49
14	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.	4.6	48
15	Spatiotemporal analysis of precipitation trends under climate change in the upper reach of Mekong River basin. <i>Quaternary International</i> , 2016, 392, 137-146.	0.7	48
16	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.	0.8	47
17	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, 7849-7860.	2.7	47
18	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.	1.7	45

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19	Key factors controlling transport of micro- and nanoplastic in porous media and its effect on coexisting pollutants. <i>Environmental Pollution</i> , 2022, 293, 118503.	3.7	44
20	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.	1.9	42
21	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.	3.9	42
22	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.	1.7	41
23	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.	2.6	41
24	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.	0.9	38
25	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.	1.9	38
26	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.	3.8	38
27	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.	4.6	36
28	Analysis of urban carbon metabolism characteristics based on provincial input-output tables. <i>Journal of Environmental Management</i> , 2020, 265, 110561.	3.8	34
29	Coral-inspired environmental durability aerogels for micron-size plastic particles removal in the aquatic environment. <i>Journal of Hazardous Materials</i> , 2022, 431, 128611.	6.5	34
30	“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.	1.5	33
31	The Future of Sustainable Energy Production in Pakistan: A System Dynamics-Based Approach for Estimating Hubbert Peaks. <i>Energies</i> , 2017, 10, 1858.	1.6	32
32	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.	1.6	31
33	Hydrological Responses to Climate and Land Use Changes in a Watershed of the Loess Plateau, China. <i>Sustainability</i> , 2019, 11, 1443.	1.6	31
34	Effects of submerged vegetation on sediment nitrogen-cycling bacterial communities in Honghu Lake (China). <i>Science of the Total Environment</i> , 2021, 755, 142541.	3.9	31
35	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.	3.3	29
36	Efficient degradation of bisphenol A with MoS ₂ /BiVO ₄ hetero-nanoflower as a heterogenous peroxymonosulfate activator under visible-light irradiation. <i>Chemosphere</i> , 2022, 289, 133158.	4.2	28

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37	A novel model for water quality prediction caused by non-point sources pollution based on deep learning and feature extraction methods. <i>Journal of Hydrology</i> , 2022, 612, 128081.	2.3	28
38	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.	3.9	27
39	Effects of Urban Non-Point Source Pollution from Baoding City on Baiyangdian Lake, China. <i>Water (Switzerland)</i> , 2017, 9, 249.	1.2	27
40	Human activities affect the multidecadal microplastic deposition records in a subtropical urban lake, China. <i>Science of the Total Environment</i> , 2022, 820, 153187.	3.9	27
41	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.	1.9	26
42	Cleaner and Sustainable Energy Production in Pakistan: Lessons Learnt from the Pak-TIMES Model. <i>Energies</i> , 2020, 13, 108.	1.6	25
43	Impacts of COVID-19 pandemic on the aquatic environment associated with disinfection byproducts and pharmaceuticals. <i>Science of the Total Environment</i> , 2022, 811, 151409.	3.9	25
44	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.	3.9	23
45	Management optimization of nonpoint source pollution considering the risk of exceeding criteria under uncertainty. <i>Science of the Total Environment</i> , 2021, 758, 143659.	3.9	23
46	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.	1.7	21
47	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.	1.6	19
48	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.	1.6	19
49	Climatic variations within the dry valleys in southwestern China and the influences of artificial reservoirs. <i>Climatic Change</i> , 2019, 155, 111-125.	1.7	17
50	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.	5.3	17
51	Monetary Valuation of PM10-Related Health Risks in Beijing China: The Necessity for PM10 Pollution Indemnity. <i>International Journal of Environmental Research and Public Health</i> , 2015, 12, 9967-9987.	1.2	16
52	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, .	2.5	16
53	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.	2.7	16
54	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.	3.8	16

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55	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> , 2023, 53, 504-526.	6.6	16
56	Urban energy consumption and related carbon emission estimation: a study at the sector scale. <i>Frontiers of Earth Science</i> , 2013, 7, 480-486.	0.9	15
57	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.	3.9	15
58	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.	1.6	14
59	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.	4.6	14
60	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.	1.9	13
61	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.	2.3	13
62	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.	1.9	12
63	Evaluation of Groundwater Remediation Technologies Based on Fuzzy Multi-Criteria Decision Analysis Approaches. <i>Water (Switzerland)</i> , 2017, 9, 443.	1.2	12
64	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.	3.8	12
65	Modeling Framework for Reservoir Capacity Planning Accounting for Fish Migration. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2020, 146, .	1.3	12
66	Exploring the influence of reservoir impoundment on surrounding tree growth. <i>Advances in Water Resources</i> , 2021, 153, 103946.	1.7	12
67	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.	3.8	12
68	Incorporating Fish Tolerance to Supersaturated Total Dissolved Gas for Generating Flood Pulse Discharge Patterns Based on a Simulationâ€”Optimization Approach. <i>Water Resources Research</i> , 2021, 57, e2021WR030167.	1.7	11
69	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.	1.6	11
70	Role of deep-sea equipment in promoting the forefront of studies on life in extreme environments. <i>IScience</i> , 2021, 24, 103299.	1.9	11
71	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.	2.3	10
72	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.	3.9	10

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73	Impacts of Climate Change on Urban Drainage Systems by Future Short-Duration Design Rainstorms. <i>Water (Switzerland)</i> , 2021, 13, 2718.	1.2	10
74	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.	1.2	9
75	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.	1.6	9
76	Radial Growth Responses to Climate of <i>Pinus yunnanensis</i> at Low Elevations of the Hengduan Mountains, China. <i>Forests</i> , 2020, 11, 1066.	0.9	9
77	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.	3.9	9
78	Robust Planning of Environmental Management Systems with Adjustable Conservativeness under Compound Uncertainty. <i>Journal of Environmental Engineering, ASCE</i> , 2012, 138, 208-222.	0.7	8
79	Industrial water resources management based on violation risk analysis of the total allowable target on wastewater discharge. <i>Scientific Reports</i> , 2017, 7, 5055.	1.6	8
80	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.	0.7	8
81	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.	5.3	8
82	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.	1.7	8
83	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.	5.3	8
84	An SPH-based mass transfer model for simulating hydraulic characteristics and mass transfer process of dammed rivers. <i>Engineering With Computers</i> , 2022, 38, 3169-3184.	3.5	7
85	Visualization and Analysis of Mapping Knowledge Domains for Food Waste Studies. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 5143.	1.2	7
86	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.	0.4	6
87	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.	1.6	6
88	Evaluation of multi-source precipitation data in a watershed with complex topography based on distributed hydrological modeling. <i>River Research and Applications</i> , 2021, 37, 1115-1133.	0.7	6
89	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.	1.7	6
90	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.	1.2	6

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91	Material flow analysis of the nitrogen loading to surface water of Miyun reservoir watershed under uncertainty. <i>Journal of Cleaner Production</i> , 2022, 353, 131574.	4.6	6
92	Hydrological management for improving nutrient assimilative capacity in plant-dominated wetlands: A modelling approach. <i>Journal of Environmental Management</i> , 2016, 177, 84-92.	3.8	5
93	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.	1.9	5
94	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.	1.2	5
95	A dual-randomness bi-level interval multi-objective programming model for regional water resources management. <i>Journal of Contaminant Hydrology</i> , 2021, 241, 103816.	1.6	5
96	A stochastic modeling approach for analyzing water resources systems. <i>Journal of Contaminant Hydrology</i> , 2021, 242, 103865.	1.6	5
97	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> , 2022, 29, 23700-23711.	2.7	5
98	Genetic Projection Pursuit Interpolation Model for Social Renewability Assessment of Water Resources. , 2008, , .		4
99	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.	0.9	4
100	A simulation-optimization approach for supporting conservative water allocation under uncertainties. <i>Journal of Environmental Management</i> , 2022, 315, 115073.	3.8	4
101	A simulation-optimization modeling approach for watershed-scale agricultural N ₂ O emission mitigation under multi-level uncertainties. <i>Stochastic Environmental Research and Risk Assessment</i> , 2018, 32, 2683-2697.	1.9	3
102	Effects of reservoir operation methods on downstream ecological disturbance and economic benefits. <i>River Research and Applications</i> , 2019, 35, 955-965.	0.7	3
103	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.	1.6	3
104	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.	3.8	3
105	Urban Flood Analysis in Ungauged Drainage Basin Using Short-Term and High-Resolution Remotely Sensed Rainfall Records. <i>Remote Sensing</i> , 2021, 13, 2204.	1.8	3
106	Inclusion of Ecological Water Requirements in Optimization of Water Resource Allocation Under Changing Climatic Conditions. <i>Water Resources Management</i> , 2022, 36, 551-570.	1.9	3
107	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.	0.9	2
108	A projects portfolio selection for water security addressing future increasing water demand and salinity intrusion in Zhuhai City, coastal China. <i>Journal of Contaminant Hydrology</i> , 2021, 242, 103846.	1.6	2

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109	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.	3.7	2
110	Simulation of Pollutant Release from Submerged Soil in the New-Built Baohe Reservoir. , 2009, , .		1
111	An improved interior-outer-set model framework for flood hazard analysis. <i>Stochastic Environmental Research and Risk Assessment</i> , 2020, 34, 1543-1558.	1.9	1
112	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.	0.7	1
113	Algal migration and nutrient enrichment contribute to patterns in phytoplankton versus epiphyton communities. <i>Science of the Total Environment</i> , 2021, 795, 148747.	3.9	1
114	Climate change impact on blue and green water resources distributions in the Beijiang River basin based on CORDEX projections. <i>Journal of Water and Climate Change</i> , 2022, 13, 2780-2798.	1.2	1
115	Identification of Strategies for Adaptation Planning to Extreme Events under Climate Change. , 2009, , .		0