Hongwei Lu

List of Publications by Year
in descending order

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71 papers	2,609 citations	218662 26 h-index	197805 49 g-index
71 all docs	71 docs citations	71 times ranked	2416 citing authors

#	Article	IF	Citations
1	Advances in microbial fuel cells for wastewater treatment. Renewable and Sustainable Energy Reviews, 2017, 71, 388-403.	16.4	304
2	Experimental and modeling approaches for food waste composting: A review. Chemosphere, 2013, 93, 1247-1257.	8.2	196
3	Life cycle assessment of greenhouse gas emissions and water-energy optimization for shale gas supply chain planning based on multi-level approach: Case study in Barnett, Marcellus, Fayetteville, and Haynesville shales. Energy Conversion and Management, 2017, 134, 382-398.	9.2	196
4	Analysis of microplastics in a remote region of the Tibetan Plateau: Implications for natural environmental response to human activities. Science of the Total Environment, 2020, 739, 140087.	8.0	170
5	Drought characteristics and its elevation dependence in the Qinghaiâ€“Tibet plateau during the last half-century. Scientific Reports, 2020, 10, 14323.	3.3	117
6	Optimal water resources management and system benefit for the Marcellus shale-gas reservoir in Pennsylvania and West Virginia. Journal of Hydrology, 2016, 540, 412-422.	5.4	106
7	An inexact rough-interval fuzzy linear programming method for generating conjunctive water-allocation strategies to agricultural irrigation systems. Applied Mathematical Modelling, 2011, 35, 4330-4340.	4.2	94
8	An integrated model of water resources optimization allocation based on projection pursuit model â€“ Grey wolf optimization method in a transboundary river basin. Journal of Hydrology, 2018, 559, 156-165.	5.4	67
9	Enhanced electrokinetic technologies with oxidizationâ€“reduction for organically-contaminated soil remediation. Chemical Engineering Journal, 2014, 247, 111-124.	12.7	64
10	Vulnerability assessment of urban ecosystems driven by water resources, human health and atmospheric environment. Journal of Hydrology, 2016, 536, 457-470.	5.4	62
11	A leader-follower-interactive method for regional water resources management with considering multiple water demands and eco-environmental constraints. Journal of Hydrology, 2017, 548, 121-134.	5.4	62
12	Regional planning of new-energy systems within multi-period and multi-option contexts: A case study of Fengtai, Beijing, China. Renewable and Sustainable Energy Reviews, 2016, 65, 356-372.	16.4	59
13	Patch aggregation trends of the global climate landscape under future global warming scenario. International Journal of Climatology, 2020, 40, 2674-2685.	3.5	58
14	A cloud model based multi-attribute decision making approach for selection and evaluation of groundwater management schemes. Journal of Hydrology, 2017, 555, 881-893.	5.4	57
15	An environmental fairness based optimisation model for the decision-support of joint control over the water quantity and quality of a river basin. Journal of Hydrology, 2016, 535, 366-376.	5.4	47
16	An inexact bi-level simulationâ€“optimization model for conjunctive regional renewable energy planning and air pollution control for electric power generation systems. Applied Energy, 2016, 183, 969-983.	10.1	46
17	Graphene oxide coated quartz sand as a high performance adsorption material in the application of water treatment. RSC Advances, 2015, 5, 8037-8043.	3.6	45
18	Greenhouse gas emissions control in integrated municipal solid waste management through mixed integer bilevel decision-making. Journal of Hazardous Materials, 2011, 193, 112-119.	12.4	42

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19	Monte Carlo-based interval transformation analysis for multi-criteria decision analysis of groundwater management strategies under uncertain naphthalene concentrations and health risks. Journal of Hydrology, 2016, 539, 468-477.	5.4	42
20	Spatio-temporal variational characteristics analysis of heavy metals pollution in water of the typical northern rivers, China. Journal of Hydrology, 2018, 559, 787-793.	5.4	41
21	Stochastic goal programming based groundwater remediation management under human-health-risk uncertainty. Journal of Hazardous Materials, 2014, 279, 257-267.	12.4	40
22	Fuzzy Inexact Mixed-Integer Semiinfinite Programming for Municipal Solid Waste Management Planning. Journal of Environmental Engineering, ASCE, 2008, 134, 572-581.	1.4	35
23	Inexact rough-interval two-stage stochastic programming for conjunctive water allocation problems. Journal of Environmental Management, 2009, 91, 261-269.	7.8	35
24	Changes in global climate heterogeneity under the 21st century global warming. Ecological Indicators, 2021, 130, 108075.	6.3	33
25	A credibility-based chance-constrained optimization model for integrated agricultural and water resources management: A case study in South Central China. Journal of Hydrology, 2016, 537, 408-418.	5.4	31
26	Relationship between urbanisation and pollutant emissions in transboundary river basins under the strategy of the Belt and Road Initiative. Chemosphere, 2018, 203, 11-20.	8.2	29
27	Greenhouse Gas Mitigation-Induced Rough-Interval Programming for Municipal Solid Waste Management. Journal of the Air and Waste Management Association, 2008, 58, 1546-1559.	1.9	28
28	Trace metal element pollution of soil and water resources caused by small-scale metallic ore mining activities: a case study from a sphalerite mine in North China. Environmental Science and Pollution Research, 2019, 26, 24630-24644.	5.3	28
29	Impact of thermal condition on vegetation feedback under greening trend of China. Science of the Total Environment, 2021, 785, 147380.	8.0	28
30	Integrated suitability, vulnerability and sustainability indicators for assessing the global potential of aquifer thermal energy storage. Applied Energy, 2019, 239, 747-756.	10.1	27
31	Vegetation response to climate zone dynamics and its impacts on surface soil water content and albedo in China. Science of the Total Environment, 2020, 747, 141537.	8.0	27
32	An interval-valued triangular fuzzy modified multi-attribute preference model for prioritization of groundwater resources management. Journal of Hydrology, 2018, 562, 335-345.	5.4	24
33	An Interval Mixed-Integer Semi-Infinite Programming Method for Municipal Solid Waste Management. Journal of the Air and Waste Management Association, 2009, 59, 236-246.	1.9	23
34	Bivariate interval semi-infinite programming with an application to environmental decision-making analysis. European Journal of Operational Research, 2011, 211, 452-465.	5.7	22
35	A bilevel groundwater management model with minimization of stochastic health risks at the leader level and remediation cost at the follower level. Stochastic Environmental Research and Risk Assessment, 2017, 31, 2547-2571.	4.0	22
36	An inexact stochastic optimization model for agricultural irrigation management with a case study in China. Stochastic Environmental Research and Risk Assessment, 2014, 28, 281-295.	4.0	19

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37	A Two-Phase Optimization Model Based on Inexact Air Dispersion Simulation for Regional Air Quality Control. Water, Air, and Soil Pollution, 2010, 211, 121-134.	2.4	17
38	Planning for Regional Water System Sustainability Through Water Resources Security Assessment Under Uncertainties. Water Resources Management, 2018, 32, 3135-3153.	3.9	17
39	Change and attribution of pan evaporation throughout the <scp>Qinghaiâ€Tibet</scp> Plateau during 1979â€“2017 using China meteorological forcing dataset. International Journal of Climatology, 2022, 42, 1445-1459.	3.5	17
40	Optimal groundwater security management policies by control of inexact health risks under dual uncertainty in slope factors. Chemosphere, 2018, 198, 161-173.	8.2	16
41	Quasi-Monte Carlo based global uncertainty and sensitivity analysis in modeling free product migration and recovery from petroleum-contaminated aquifers. Journal of Hazardous Materials, 2012, 219-220, 133-140.	12.4	15
42	Network environmental analysis based ecological risk assessment of a naphthalene-contaminated groundwater ecosystem under varying remedial schemes. Journal of Hydrology, 2016, 543, 612-624.	5.4	14
43	Optimization-based multicriteria decision analysis for identification of desired petroleum-contaminated groundwater remediation strategies. Environmental Science and Pollution Research, 2015, 22, 9505-9514.	5.3	12
44	A multi-level method for groundwater remediation management accommodating non-competitive objectives. Journal of Hydrology, 2019, 570, 531-543.	5.4	12
45	Characterization of temperature difference between the neighbouring days in China and its potential driving factors. International Journal of Climatology, 2019, 39, 4659-4668.	3.5	11
46	Characterization of monochlorobenzene contamination in soils using geostatistical interpolation and 3D visualization for agrochemical industrial sites in southeast China. Archives of Environmental Protection, 2016, 42, 17-24.	1.1	10
47	Human health risk constrained naphthalene-contaminated groundwater remediation management through an improved credibility method. Environmental Science and Pollution Research, 2017, 24, 16120-16136.	5.3	10
48	Spatial Variation, Pollution Assessment and Source Identification of Major Nutrients in Surface Sediments of Nansi Lake, China. Water (Switzerland), 2017, 9, 444.	2.7	10
49	Enhanced Cd transport in the soil-plant-atmosphere continuum (SPAC) system by tobacco (Nicotiana) Tj ETQq1 1 0.784314 rgBT /Ov	8.2	10
50	The pattern of virtual water transfer in China: From the perspective of the virtual water hypothesis. Journal of Cleaner Production, 2022, 346, 131232.	9.3	10
51	Control of stochastic carcinogenic and noncarcinogenic risks in groundwater remediation through an integrated optimization design model. Stochastic Environmental Research and Risk Assessment, 2015, 29, 2159-2172.	4.0	9
52	GHG emission control and solid waste management for megacities with inexact inputs: A case study in Beijing, China. Journal of Hazardous Materials, 2015, 284, 92-102.	12.4	9
53	Integrated watershed management through multi-level and stepwise optimization for allocation of total load of water pollutants at large scales. Environmental Earth Sciences, 2018, 77, 1.	2.7	9
54	A tempo-spatial-distributed multi-objective decision-making model for ecological restoration management of water-deficient rivers. Journal of Hydrology, 2016, 542, 860-874.	5.4	8

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55	Meta-modeling-based health risk assessment of naphthalene-contaminated groundwater at a coal-fired power plant. Human and Ecological Risk Assessment (HERA), 2016, 22, 1602-1619.	3.4	8
56	Importance Analysis of Groundwater Remediation Systems. Water Resources Management, 2014, 28, 115-129.	3.9	6
57	Rough-interval-based multicriteria decision analysis for remediation of 1,1-dichloroethane contaminated groundwater. Chemosphere, 2017, 168, 244-253.	8.2	6
58	A microbial growth kinetics model driven by hybrid stochastic colored noises in the water environment. Stochastic Environmental Research and Risk Assessment, 2017, 31, 2047-2056.	4.0	6
59	Pollutant source analysis and tempo-spatial analysis of pollutant discharge intensity in a transboundary river basin. Environmental Science and Pollution Research, 2019, 26, 1336-1354.	5.3	6
60	Intensification of the dispersion of the global climatic landscape and its potential as a new climate change indicator. Environmental Research Letters, 2020, 15, 114032.	5.2	6
61	Bi-Level Decision-Making Approach for GHG Emissions Control and Municipal Solid Waste Management under Parameter Uncertainty: A Case Study in Beijing, China. Polish Journal of Environmental Studies, 2016, 25, 1435-1451.	1.2	6
62	Optimal control of greenhouse gas emissions and system cost for integrated municipal solid waste management with considering a hierarchical structure. Waste Management and Research, 2017, 35, 874-889.	3.9	5
63	Quantifying the effects of meteorological change between neighboring days on human thermal comfort in China. Theoretical and Applied Climatology, 2022, 147, 1345-1357.	2.8	5
64	Metaâ€Modelingâ€Based Groundwater Remediation Optimization under Flexibility in Environmental Standard. Water Environment Research, 2017, 89, 456-465.	2.7	4
65	Patterns of carbon footprints of main grains production in China: a comparison between main and non-main producing areas. Environmental Science and Pollution Research, 2022, 29, 23595-23606.	5.3	4
66	A semiparametric statistical approach for forecasting SO2 and NO x concentrations. Environmental Science and Pollution Research, 2014, 21, 7985-7995.	5.3	3
67	Intensified fragmentation and shrinkage of the polar climate zone in the Arctic. International Journal of Climatology, 2021, 41, E3021.	3.5	1
68	Temporal and spatial heterogeneity of recent lake surface water temperature trends in the Qinghai-Tibet Plateau. Geocarto International, 2022, 37, 9002-9020.	3.5	1
69	Characterization of integrated noises driving bacterial degradation kinetics in the water environment by Fourier transform algorithm. Stochastic Environmental Research and Risk Assessment, 2016, 30, 343-351.	4.0	0
70	Temporalâ€“Spatial System Dynamic Changes in Transboundary River Basin Treatment Costs. Environmental Engineering Science, 2018, 35, 603-615.	1.6	0
71	DEVELOPMENT OF A DECISION SUPPORT SYSTEM BASED ON STOCHASTIC NONLINEAR OPTIMIZATION FOR PETROLEUM-CONTAMINATED SITE MANAGEMENT. Environmental Engineering and Management Journal, 2017, 16, 1423-1434.	0.6	0