

Lirong Liu

List of Publications by Year in descending order

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78
papers

1,901
citations

218381

26
h-index

288905

40
g-index

78
all docs

78
docs citations

78
times ranked

913
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of an SMR-induced environmental input-output analysis model – Application to Saskatchewan, Canada. <i>Science of the Total Environment</i> , 2022, 806, 150297.	3.9	3
2	Sustainable conjunctive water management model for alleviating water shortage. <i>Journal of Environmental Management</i> , 2022, 304, 114243.	3.8	12
3	A stepwise emission clustering analysis method for analyzing the effects of heavy metal emissions from multiple income groups. <i>Science of the Total Environment</i> , 2022, 812, 152472.	3.9	1
4	Development of a stochastic multistage lifecycle programming model for electric power system planning – A case study for the Province of Saskatchewan, Canada. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 158, 112044.	8.2	7
5	Unveiling direct and indirect impacts of the Three Gorges Project for supporting synergistic water-power management. <i>Journal of Cleaner Production</i> , 2022, 338, 130547.	4.6	2
6	A coupled non-deterministic optimization and mixed-level factorial analysis model for power generation expansion planning – A case study of Jing-Jin-Ji metropolitan region, China. <i>Applied Energy</i> , 2022, 311, 118621.	5.1	3
7	A stepwise clustered industrial waste gas management model. <i>Journal of Cleaner Production</i> , 2022, 347, 131253.	4.6	4
8	How to provide refined China's water-economy management policy at the regional scale?. <i>Journal of Cleaner Production</i> , 2022, 351, 131590.	4.6	6
9	Sector-level socio-economic and environmental effects of large-scale hydropower initiatives – a multi-region multi-phase model for the Wudongde Hydropower Station. <i>Applied Energy</i> , 2022, 317, 119157.	5.1	5
10	Multiperspective-driven factorial metabolic network analysis framework for energy–water nexus vulnerability assessment and management-policy simulation. <i>Journal of Environmental Management</i> , 2022, 315, 115095.	3.8	2
11	Developing a factorial hypothetical extraction model for assessing composite effects on cutting national carbon emission intensity. <i>Journal of Environmental Sciences</i> , 2022, , .	3.2	0
12	Inter-regional cluster analysis of heavy-metal emissions. <i>Journal of Cleaner Production</i> , 2021, 282, 124439.	4.6	6
13	A factorial CGE model for analyzing the impacts of stepped carbon tax on Chinese economy and carbon emission. <i>Science of the Total Environment</i> , 2021, 759, 143512.	3.9	55
14	Ensemble projection of city-level temperature extremes with stepwise cluster analysis. <i>Climate Dynamics</i> , 2021, 56, 3313-3335.	1.7	11
15	A multicriteria small modular reactor site selection model under long-term variations of climatic conditions – A case study for the province of Saskatchewan, Canada. <i>Journal of Cleaner Production</i> , 2021, 290, 125651.	4.6	5
16	Assessment and offset of the adverse effects induced by PM2.5 from coal-fired power plants in China. <i>Journal of Cleaner Production</i> , 2021, 286, 125397.	4.6	9
17	Development of a factorial water policy simulation approach from production and consumption perspectives. <i>Water Research</i> , 2021, 193, 116892.	5.3	23
18	Multi-hierarchy virtual-water management – A case study of Hubei Province, China. <i>Journal of Cleaner Production</i> , 2021, 293, 126244.	4.6	9

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19	Economic sensitivity analysis of dual perspectives induced by energy scarcity for energy-dependent region. <i>Science of the Total Environment</i> , 2021, 768, 144876.	3.9	13
20	Economic modeling of national energy, water and air pollution nexus in China under changing climate conditions. <i>Renewable Energy</i> , 2021, 170, 375-386.	4.3	16
21	A factorial emission-focused general equilibrium model for investigating composite effects of multiple environmental policies. <i>Water Research</i> , 2021, 201, 117336.	5.3	7
22	Multi-regional industrial wastewater metabolism analysis for the Yangtze River Economic Belt, China. <i>Environmental Pollution</i> , 2021, 284, 117118.	3.7	15
23	Segmented carbon tax may significantly affect the regional and national economy and environment—a CGE-based analysis for Guangdong Province. <i>Energy</i> , 2021, 231, 120958.	4.5	26
24	A distributive multi-phase waste management model for analyzing synergistic emission mitigation policies – A Chinese case study. <i>Journal of Cleaner Production</i> , 2021, 323, 129153.	4.6	2
25	Projections of carbon metabolism in 2035 and implications for demand-side controls under various scenarios. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 151, 111561.	8.2	11
26	Development of a multi-factorial enviro-economic analysis model for assessing the interactive effects of combined air pollution control policies. <i>Resources, Conservation and Recycling</i> , 2021, 175, 105882.	5.3	7
27	Unveiling Carbon Emission Attributions along Sale Chains. <i>Environmental Science & Technology</i> , 2021, 55, 220-229.	4.6	18
28	Revealing dynamic impacts of socioeconomic factors on air pollution changes in Guangdong Province, China. <i>Science of the Total Environment</i> , 2020, 699, 134178.	3.9	21
29	Evolution of virtual water metabolic network in developing regions: A case study of Guangdong province. <i>Ecological Indicators</i> , 2020, 108, 105750.	2.6	20
30	Inter-regional carbon flows embodied in electricity transmission: network simulation for energy-carbon nexus. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 118, 109511.	8.2	74
31	Dynamic wastewater-induced research based on input-output analysis for Guangdong Province, China. <i>Environmental Pollution</i> , 2020, 256, 113502.	3.7	32
32	Multi-Dimensional Hypothetical Fuzzy Risk Simulation model for Greenhouse Gas mitigation policy development. <i>Applied Energy</i> , 2020, 261, 114348.	5.1	15
33	Three-perspective energy-carbon nexus analysis for developing China's policies of CO ₂ -emission mitigation. <i>Science of the Total Environment</i> , 2020, 705, 135857.	3.9	28
34	A mitigation simulation method for urban NO _x emissions based on input-output analysis. <i>Journal of Cleaner Production</i> , 2020, 249, 119338.	4.6	20
35	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.	4.3	28
36	A multi-source virtual water metabolism model for urban systems. <i>Journal of Cleaner Production</i> , 2020, 275, 124107.	4.6	19

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37	A multi-perspective factorial hypothetical simulation model for cutting the carbon emission intensity of China. <i>Journal of Cleaner Production</i> , 2020, 275, 123943.	4.6	5
38	Nanoconfined Water Effect on CO ₂ Utilization and Geological Storage. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087999.	1.5	18
39	Two-pathway perspective for heavy metal emission mitigation: A case study of Guangdong Province, China. <i>Science of the Total Environment</i> , 2020, 735, 139583.	3.9	10
40	Revealing environmental inequalities embedded within regional trades. <i>Journal of Cleaner Production</i> , 2020, 264, 121719.	4.6	18
41	Multi-dimensional diagnosis model for the sustainable development of regions facing water scarcity problem: A case study for Guangdong, China. <i>Science of the Total Environment</i> , 2020, 734, 139394.	3.9	17
42	Quantitative distinction of thermodynamic soluble and miscible states. <i>AIChE Journal</i> , 2020, 66, e16977.	1.8	2
43	Optimized foam-assisted CO ₂ enhanced oil recovery technology in tight oil reservoirs. <i>Fuel</i> , 2020, 267, 117099.	3.4	25
44	Thermodynamic Parameters for Quantitative Miscibility Interpretations from the Bulk to Nanometer Scale. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 10634-10650.	1.8	3
45	A review of experimental methods for determining the Oil-Gas minimum miscibility pressures. <i>Journal of Petroleum Science and Engineering</i> , 2019, 183, 106366.	2.1	46
46	Factorial two-stage analyses of parameters affecting the oil-gas interface and miscibility in bulk phase and nanopores. <i>Journal of Colloid and Interface Science</i> , 2019, 555, 740-750.	5.0	5
47	A factorial environment-oriented input-output model for diagnosing urban air pollution. <i>Journal of Cleaner Production</i> , 2019, 237, 117731.	4.6	29
48	Measurement of air-pollution inequality through a three-perspective accounting model. <i>Science of the Total Environment</i> , 2019, 696, 133937.	3.9	28
49	Static and dynamic behavior of CO ₂ enhanced oil recovery in shale reservoirs: Experimental nanofluidics and theoretical models with dual-scale nanopores. <i>Applied Energy</i> , 2019, 255, 113752.	5.1	70
50	CO ₂ storage in fractured nanopores underground: Phase behaviour study. <i>Applied Energy</i> , 2019, 238, 911-928.	5.1	61
51	Metabolism of urban wastewater: Ecological network analysis for Guangdong Province, China. <i>Journal of Cleaner Production</i> , 2019, 217, 510-519.	4.6	45
52	Rapid Determination of Interfacial Tensions in Nanopores: Experimental Nanofluidics and Theoretical Models. <i>Langmuir</i> , 2019, 35, 8943-8949.	1.6	9
53	Main and Interactive Effects of Four Factors on CO ₂ Storage in Fractured Nanopores. <i>Energy & Fuels</i> , 2019, 33, 6616-6627.	2.5	4
54	Semi-analytical nanoscale-extended surface tension correlation. <i>AIChE Journal</i> , 2019, 65, e16622.	1.8	5

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55	Ecological network analysis of an energy metabolism system based on input-output tables: Model development and case study for Guangdong. <i>Journal of Cleaner Production</i> , 2019, 227, 434-446.	4.6	39
56	Generalized critical shifts of confined fluids in nanopores with adsorptions. <i>Chemical Engineering Journal</i> , 2019, 372, 809-814.	6.6	50
57	Dynamic analysis of industrial solid waste metabolism at aggregated and disaggregated levels. <i>Journal of Cleaner Production</i> , 2019, 221, 817-827.	4.6	37
58	Integrated GHG emissions and emission relationships analysis through a disaggregated ecologically-extended input-output model; A case study for Saskatchewan, Canada. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 106, 97-109.	8.2	32
59	Ecological network analysis of an urban water metabolic system based on input-output model: A case study of Guangdong, China. <i>Science of the Total Environment</i> , 2019, 670, 369-378.	3.9	49
60	Quantification and Evaluation of Thermodynamic Miscibility in Nanoconfined Space. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 4609-4624.	1.8	12
61	Canadian Energy System Management under Climate Change Conditions. , 2019, , .		0
62	Network analysis of different types of food flows: Establishing the interaction between food flows and economic flows. <i>Resources, Conservation and Recycling</i> , 2019, 143, 143-153.	5.3	29
63	Transfer of virtual water embodied in food: A new perspective. <i>Science of the Total Environment</i> , 2019, 659, 872-883.	3.9	39
64	Nanoscale-extended alpha functions for pure and mixing confined fluids. <i>Fluid Phase Equilibria</i> , 2019, 482, 64-80.	1.4	8
65	Ecological network analysis for an industrial solid waste metabolism system. <i>Environmental Pollution</i> , 2019, 244, 279-287.	3.7	63
66	Millimeter to nanometer-scale tight oil's CO ₂ solubility parameter and minimum miscibility pressure calculations. <i>Fuel</i> , 2018, 220, 645-653.	3.4	74
67	A new analysis of pressure dependence of the equilibrium interfacial tensions of different light crude oil's CO ₂ systems. <i>International Journal of Heat and Mass Transfer</i> , 2018, 121, 503-513.	2.5	16
68	Environmentally-extended input-output simulation for analyzing production-based and consumption-based industrial greenhouse gas mitigation policies. <i>Applied Energy</i> , 2018, 232, 69-78.	5.1	71
69	Adsorption Thicknesses of Confined Pure and Mixing Fluids in Nanopores. <i>Langmuir</i> , 2018, 34, 12815-12826.	1.6	29
70	How a carbon tax will affect an emission-intensive economy: A case study of the Province of Saskatchewan, Canada. <i>Energy</i> , 2018, 159, 817-826.	4.5	93
71	Dynamic input-output analysis for energy metabolism system in the Province of Guangdong, China. <i>Journal of Cleaner Production</i> , 2018, 196, 747-762.	4.6	46
72	Ecological and economic analyses of the forest metabolism system: A case study of Guangdong Province, China. <i>Ecological Indicators</i> , 2018, 95, 131-140.	2.6	24

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73	Evaluation of four CO ₂ injection schemes for unlocking oils from low-permeability formations under immiscible conditions. <i>Fuel</i> , 2018, 234, 814-823.	3.4	40
74	Thermodynamic phase behaviour and miscibility of confined fluids in nanopores. <i>Chemical Engineering Journal</i> , 2018, 351, 1115-1128.	6.6	86
75	A factorial ecologically-extended input-output model for analyzing urban GHG emissions metabolism system. <i>Journal of Cleaner Production</i> , 2018, 200, 922-933.	4.6	58
76	How surfactant-decorated nanoparticles contribute to thermodynamic miscibility. <i>Nanotechnology</i> , 2018, 29, 475701.	1.3	10
77	Nanoscale-extended correlation to calculate gas solvent minimum miscibility pressures in tight oil reservoirs. <i>Journal of Petroleum Science and Engineering</i> , 2018, 171, 1455-1465.	2.1	14
78	Ecological network analysis for urban metabolism and carbon emissions based on input-output tables: A case study of Guangdong province. <i>Ecological Modelling</i> , 2018, 383, 118-126.	1.2	47