Lirong Liu

List of Publications by Year in Descending Order

76 papers	**1,158** citations	**21** h-index	**30** g-index
78 ext. papers	**1,537** ext. citations	**8.9** avg, IF	**5.55** L-index

#	Paper	IF	Citations
76	Development of a stochastic multistage lifecycle programming model for electric power system planning ⏤A case study for the Province of Saskatchewan, Canada. *Renewable and Sustainable Energy Reviews*, **2022**, 158, 112044	16.2	1
75	Unveiling direct and indirect impacts of the Three Gorges Project for supporting synergistic water-power management. *Journal of Cleaner Production*, **2022**, 338, 130547	10.3	0
74	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. *Applied Energy*, **2022**, 311, 118621	10.7	1
73	Development of an SMR-induced environmental input-output analysis model - Application to Saskatchewan, Canada. *Science of the Total Environment*, **2022**, 806, 150297	10.2	1
72	A stepwise clustered industrial waste gas management model. *Journal of Cleaner Production*, **2022**, 347, 131253	10.3	0
71	How to provide refined China⏤water-economy management policy at the regional scale?. *Journal of Cleaner Production*, **2022**, 351, 131590	10.3	1
70	Sector-level socio-economic and environmental effects of large-scale hydropower initiatives -- a multi-region multi-phase model for the Wudongde Hydropower Station. *Applied Energy*, **2022**, 317, 119157	10.7	0
69	Multiperspective-driven factorial metabolic network analysis framework for energy-water nexus vulnerability assessment and management-policy simulation.. *Journal of Environmental Management*, **2022**, 315, 115095	7.9	1
68	Sustainable conjunctive water management model for alleviating water shortage.. *Journal of Environmental Management*, **2021**, 304, 114243	7.9	0
67	A stepwise emission clustering analysis method for analyzing the effects of heavy metal emissions from multiple income groups.. *Science of the Total Environment*, **2021**, 812, 152472	10.2	0
66	Unveiling Carbon Emission Attributions along Sale Chains. *Environmental Science & Technology*, **2021**, 55, 220-229	10.3	6
65	A multicriteria small modular reactor site selection model under long-term variations of climatic conditions -- A case study for the province of Saskatchewan, Canada. *Journal of Cleaner Production*, **2021**, 290, 125651	10.3	3
64	Assessment and offset of the adverse effects induced by PM2.5 from coal-fired power plants in China. *Journal of Cleaner Production*, **2021**, 286, 125397	10.3	4
63	Development of a factorial water policy simulation approach from production and consumption perspectives. *Water Research*, **2021**, 193, 116892	12.5	10
62	Multi-hierarchy virtual-water management⏤A case study of Hubei Province, China. *Journal of Cleaner Production*, **2021**, 293, 126244	10.3	3
61	Economic sensitivity analysis of dual perspectives induced by energy scarcity for energy-dependent region. *Science of the Total Environment*, **2021**, 768, 144876	10.2	4
60	Economic modeling of national energy, water and air pollution nexus in China under changing climate conditions. *Renewable Energy*, **2021**, 170, 375-386	8.1	7

59	Inter-regional cluster analysis of heavy-metal emissions. *Journal of Cleaner Production*, **2021**, 282, 124439	10.3	4
58	A factorial CGE model for analyzing the impacts of stepped carbon tax on Chinese economy and carbon emission. *Science of the Total Environment*, **2021**, 759, 143512	10.2	21
57	Ensemble projection of city-level temperature extremes with stepwise cluster analysis. *Climate Dynamics*, **2021**, 56, 3313-3335	4.2	2
56	A factorial emission-focused general equilibrium model for investigating composite effects of multiple environmental policies. *Water Research*, **2021**, 201, 117336	12.5	1
55	Multi-regional industrial wastewater metabolism analysis for the Yangtze River Economic Belt, China. *Environmental Pollution*, **2021**, 284, 117118	9.3	2
54	Segmented carbon tax may significantly affect the regional and national economy and environment-a CGE-based analysis for Guangdong Province. *Energy*, **2021**, 231, 120958	7.9	10
53	A distributive multi-phase waste management model for analyzing synergistic emission mitigation policies ΓA Chinese case study. *Journal of Cleaner Production*, **2021**, 323, 129153	10.3	0
52	Projections of carbon metabolism in 2035 and implications for demand-side controls under various scenarios. *Renewable and Sustainable Energy Reviews*, **2021**, 151, 111561	16.2	2
51	Development of a multi-factorial enviro-economic analysis model for assessing the interactive effects of combined air pollution control policies. *Resources, Conservation and Recycling*, **2021**, 175, 105882	11.9	1
50	Two-pathway perspective for heavy metal emission mitigation: A case study of Guangdong Province, China. *Science of the Total Environment*, **2020**, 735, 139583	10.2	8
49	Revealing environmental inequalities embedded within regional trades. *Journal of Cleaner Production*, **2020**, 264, 121719	10.3	7
48	Multi-dimensional diagnosis model for the sustainable development of regions facing water scarcity problem: A case study for Guangdong, China. *Science of the Total Environment*, **2020**, 734, 139394	10.2	9
47	Quantitative distinction of thermodynamic soluble and miscible states. *AICHE Journal*, **2020**, 66, e16977	3.6	1
46	Optimized foam-assisted CO2 enhanced oil recovery technology in tight oil reservoirs. *Fuel*, **2020**, 267, 117099	7.1	11
45	Thermodynamic Parameters for Quantitative Miscibility Interpretations from the Bulk to Nanometer Scale. *Industrial & Engineering Chemistry Research*, **2020**, 59, 10634-10650	3.9	3
44	Inter-regional carbon flows embodied in electricity transmission: network simulation for energy-carbon nexus. *Renewable and Sustainable Energy Reviews*, **2020**, 118, 109511	16.2	46
43	Dynamic wastewater-induced research based on input-output analysis for Guangdong Province, China. *Environmental Pollution*, **2020**, 256, 113502	9.3	18
42	Multi-Dimensional Hypothetical Fuzzy Risk Simulation model for Greenhouse Gas mitigation policy development. *Applied Energy*, **2020**, 261, 114348	10.7	13

41	Three-perspective energy-carbon nexus analysis for developing China policies of CO-emission mitigation. *Science of the Total Environment*, **2020**, 705, 135857	10.2	17
40	A mitigation simulation method for urban NOx emissions based on input-output analysis. *Journal of Cleaner Production*, **2020**, 249, 119338	10.3	12
39	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	8.1	15
38	A multi-source virtual water metabolism model for urban systems. *Journal of Cleaner Production*, **2020**, 275, 124107	10.3	10
37	A multi-perspective factorial hypothetical simulation model for cutting the carbon emission intensity of China. *Journal of Cleaner Production*, **2020**, 275, 123943	10.3	0
36	Nanoconfined Water Effect on CO2 Utilization and Geological Storage. *Geophysical Research Letters*, **2020**, 47, e2020GL087999	4.9	8
35	Revealing dynamic impacts of socioeconomic factors on air pollution changes in Guangdong Province, China. *Science of the Total Environment*, **2020**, 699, 134178	10.2	9
34	Evolution of virtual water metabolic network in developing regions: A case study of Guangdong province. *Ecological Indicators*, **2020**, 108, 105750	5.8	14
33	Static and dynamic behavior of CO2 enhanced oil recovery in shale reservoirs: Experimental nanofluidics and theoretical models with dual-scale nanopores. *Applied Energy*, **2019**, 255, 113752	10.7	44
32	CO2 storage in fractured nanopores underground: Phase behaviour study. *Applied Energy*, **2019**, 238, 911-928	10.7	47
31	Metabolism of urban wastewater: Ecological network analysis for Guangdong Province, China. *Journal of Cleaner Production*, **2019**, 217, 510-519	10.3	31
30	Rapid Determination of Interfacial Tensions in Nanopores: Experimental Nanofluidics and Theoretical Models. *Langmuir*, **2019**, 35, 8943-8949	4	6
29	Main and Interactive Effects of Four Factors on CO2 Storage in Fractured Nanopores. *Energy & Fuels*, **2019**, 33, 6616-6627	4.1	3
28	Semi-analytical nanoscale-extended surface tension correlation. *AICHE Journal*, **2019**, 65, e16622	3.6	5
27	Ecological network analysis of an energy metabolism system based on input-output tables: Model development and case study for Guangdong. *Journal of Cleaner Production*, **2019**, 227, 434-446	10.3	23
26	Generalized critical shifts of confined fluids in nanopores with adsorptions. *Chemical Engineering Journal*, **2019**, 372, 809-814	14.7	31
25	Dynamic analysis of industrial solid waste metabolism at aggregated and disaggregated levels. *Journal of Cleaner Production*, **2019**, 221, 817-827	10.3	23
24	Integrated GHG emissions and emission relationships analysis through a disaggregated ecologically-extended input-output model; A case study for Saskatchewan, Canada. *Renewable and Sustainable Energy Reviews*, **2019**, 106, 97-109	16.2	27

23	Ecological network analysis of an urban water metabolic system based on input-output model: A case study of Guangdong, China. *Science of the Total Environment*, **2019**, 670, 369-378	10.2	27
22	Quantification and Evaluation of Thermodynamic Miscibility in Nanoconfined Space. *Industrial & Engineering Chemistry Research*, **2019**, 58, 4609-4624	3.9	11
21	A review of experimental methods for determining the Oil-Gas minimum miscibility pressures. *Journal of Petroleum Science and Engineering*, **2019**, 183, 106366	4.4	20
20	Factorial two-stage analyses of parameters affecting the oil-gas interface and miscibility in bulk phase and nanopores. *Journal of Colloid and Interface Science*, **2019**, 555, 740-750	9.3	3
19	A factorial environment-oriented input-output model for diagnosing urban air pollution. *Journal of Cleaner Production*, **2019**, 237, 117731	10.3	18
18	Measurement of air-pollution inequality through a three-perspective accounting model. *Science of the Total Environment*, **2019**, 696, 133937	10.2	19
17	Network analysis of different types of food flows: Establishing the interaction between food flows and economic flows. *Resources, Conservation and Recycling*, **2019**, 143, 143-153	11.9	21
16	Transfer of virtual water embodied in food: A new perspective. *Science of the Total Environment*, **2019**, 659, 872-883	10.2	30
15	Nanoscale-extended alpha functions for pure and mixing confined fluids. *Fluid Phase Equilibria*, **2019**, 482, 64-80	2.5	4
14	Ecological network analysis for an industrial solid waste metabolism system. *Environmental Pollution*, **2019**, 244, 279-287	9.3	41
13	Millimeter to nanometer-scale tight oil–CO_2 solubility parameter and minimum miscibility pressure calculations. *Fuel*, **2018**, 220, 645-653	7.1	55
12	A new analysis of pressure dependence of the equilibrium interfacial tensions of different light crude oil–CO_2 systems. *International Journal of Heat and Mass Transfer*, **2018**, 121, 503-513	4.9	10
11	Ecological and economic analyses of the forest metabolism system: A case study of Guangdong Province, China. *Ecological Indicators*, **2018**, 95, 131-140	5.8	17
10	Evaluation of four CO2 injection schemes for unlocking oils from low-permeability formations under immiscible conditions. *Fuel*, **2018**, 234, 814-823	7.1	29
9	Thermodynamic phase behaviour and miscibility of confined fluids in nanopores. *Chemical Engineering Journal*, **2018**, 351, 1115-1128	14.7	57
8	A factorial ecologically-extended input-output model for analyzing urban GHG emissions metabolism system. *Journal of Cleaner Production*, **2018**, 200, 922-933	10.3	47
7	How surfactant-decorated nanoparticles contribute to thermodynamic miscibility. *Nanotechnology*, **2018**, 29, 475701	3.4	7
6	Nanoscale-extended correlation to calculate gas solvent minimum miscibility pressures in tight oil reservoirs. *Journal of Petroleum Science and Engineering*, **2018**, 171, 1455-1465	4.4	10

5	Ecological network analysis for urban metabolism and carbon emissions based on input-output tables: A case study of Guangdong province. *Ecological Modelling*, **2018**, 383, 118-126	3	30
4	Environmentally-extended input-output simulation for analyzing production-based and consumption-based industrial greenhouse gas mitigation policies. *Applied Energy*, **2018**, 232, 69-78	10.7	51
3	Adsorption Thicknesses of Confined Pure and Mixing Fluids in Nanopores. *Langmuir*, **2018**, 34, 12815-12826	4	23
2	How a carbon tax will affect an emission-intensive economy: A case study of the Province of Saskatchewan, Canada. *Energy*, **2018**, 159, 817-826	7.9	63
1	Dynamic input-output analysis for energy metabolism system in the Province of Guangdong, China. *Journal of Cleaner Production*, **2018**, 196, 747-762	10.3	39