Hua Liao

List of Publications by Year
in descending order

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113 papers	5,089 citations	87723 38 h-index	95083 68 g-index
116 all docs	116 docs citations	116 times ranked	3642 citing authors

#	Article	IF	Citations
1	CO2 emissions, economic and population growth, and renewable energy: Empirical evidence across regions. Energy Economics, 2018, 75, 180-192.	5.6	446
2	An empirical analysis of energy efficiency in China's iron and steel sector. Energy, 2007, 32, 2262-2270.	4.5	271
3	The role of environmental concern in the public acceptance of autonomous electric vehicles: A survey from China. Transportation Research Part F: Traffic Psychology and Behaviour, 2019, 60, 37-46.	1.8	257
4	Does natural gas consumption mitigate CO2 emissions: Testing the environmental Kuznets curve hypothesis for 14 Asia-Pacific countries. Renewable and Sustainable Energy Reviews, 2018, 94, 419-429.	8.2	222
5	What induced China's energy intensity to fluctuate: 1997â€“2006?. Energy Policy, 2007, 35, 4640-4649.	4.2	196
6	Impacts of urbanization on carbon emissions: An empirical analysis from OECD countries. Energy Policy, 2021, 151, 112171.	4.2	183
7	A proposed global layout of carbon capture and storage in line with a 2â€‰Â°C climate target. Nature Climate Change, 2021, 11, 112-118.	8.1	169
8	Residential carbon emission evolutions in urbanâ€“rural divided China: An end-use and behavior analysis. Applied Energy, 2013, 101, 323-332.	5.1	150
9	Can market oriented economic reforms contribute to energy efficiency improvement? Evidence from China. Energy Policy, 2007, 35, 2287-2295.	4.2	136
10	Chinaâ€™s farewell to coal: A forecast of coal consumption through 2020. Energy Policy, 2015, 86, 444-455.	4.2	134
11	Energy poverty and solid fuels use in rural China: Analysis based on national population census. Energy for Sustainable Development, 2014, 23, 122-129.	2.0	131
12	Cooking fuel choice in rural China: results from microdata. Journal of Cleaner Production, 2017, 142, 538-547.	4.6	124
13	Is Chinaâ€™s carbon reduction target allocation reasonable? An analysis based on carbon intensity convergence. Applied Energy, 2015, 142, 229-239.	5.1	113
14	Impacts of OPEC's political risk on the international crude oil prices: An empirical analysis based on the SVAR models. Energy Economics, 2016, 57, 42-49.	5.6	110
15	How does carbon dioxide emission change with the economic development? Statistical experiences from 132 countries. Global Environmental Change, 2013, 23, 1073-1082.	3.6	105
16	China's fiscal decentralization and environmental quality: theory and an empirical study. Environment and Development Economics, 2020, 25, 159-181.	1.3	86
17	Responsibility accounting in carbon allocation: A global perspective. Applied Energy, 2014, 130, 122-133.	5.1	84
18	Is CO2 emission a side effect of financial development? An empirical analysis for China. Environmental Science and Pollution Research, 2016, 23, 21041-21057.	2.7	83

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19	Carbon emissions quotas in the Chinese road transport sector: A carbon trading perspective. Energy Policy, 2017, 106, 298-309.	4.2	73
20	Self-preservation strategy for approaching global warming targets in the post-Paris Agreement era. Nature Communications, 2020, 11, 1624.	5.8	71
21	Solid fuel use in rural China and its health effects. Renewable and Sustainable Energy Reviews, 2016, 60, 900-908.	8.2	69
22	A comparative analysis of the life cycle environmental emissions from wind and coal power: Evidence from China. Journal of Cleaner Production, 2020, 248, 119192.	4.6	69
23	The differences of carbon intensity reduction rate across 89 countries in recent three decades. Applied Energy, 2014, 113, 808-815.	5.1	65
24	An integrated assessment of INDCs under Shared Socioeconomic Pathways: an implementation of C3IAM. Natural Hazards, 2018, 92, 585-618.	1.6	62
25	Fuel choices for cooking in China: Analysis based on multinomial logit model. Journal of Cleaner Production, 2019, 225, 104-111.	4.6	62
26	Costs and potentials of energy conservation in China's coal-fired power industry: A bottom-up approach considering price uncertainties. Energy Policy, 2017, 104, 23-32.	4.2	58
27	Analysis of consumer attitudes towards autonomous, connected, and electric vehicles: A survey in China. Research in Transportation Economics, 2020, 80, 100828.	2.2	58
28	Household cooking fuel choice and economic poverty: Evidence from a nationwide survey in China. Energy and Buildings, 2018, 166, 319-329.	3.1	55
29	A multi-period power generation planning model incorporating the non-carbon external costs: A case study of China. Applied Energy, 2016, 183, 1333-1345.	5.1	53
30	Marginal abatement costs of CO2 emissions in the thermal power sector: A regional empirical analysis from China. Journal of Cleaner Production, 2018, 171, 163-174.	4.6	53
31	Economic dispatch savings in the coal-fired power sector: An empirical study of China. Energy Economics, 2018, 74, 330-342.	5.6	50
32	An analysis of research hotspots and modeling techniques on carbon capture and storage. Science of the Total Environment, 2019, 687, 687-701.	3.9	50
33	Regional efforts to mitigate climate change in China: a multi-criteria assessment approach. Mitigation and Adaptation Strategies for Global Change, 2017, 22, 45-66.	1.0	48
34	Solid fuel use for cooking and its health effects on the elderly in rural China. Environmental Science and Pollution Research, 2018, 25, 3669-3680.	2.7	48
35	COVID-19 and energy: Influence mechanisms and research methodologies. Sustainable Production and Consumption, 2021, 27, 2134-2152.	5.7	44
36	Cooking fuel decision-making and family structure: a field study in China. Environmental Science and Pollution Research, 2019, 26, 24050-24061.	2.7	43

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37	The fluctuations of Chinaâ€™s energy intensity: Biased technical change. Applied Energy, 2014, 135, 407-414.	5.1	41
38	Social cost of carbon under shared socioeconomic pathways. Global Environmental Change, 2018, 53, 225-232.	3.6	39
39	Weather, travel mode choice, and impacts on subway ridership in Beijing. Transportation Research, Part A: Policy and Practice, 2020, 135, 264-279.	2.0	39
40	China's energy consumption: A perspective from Divisia aggregation approach. Energy, 2010, 35, 28-34.	4.5	38
41	Is the price elasticity of demand for coal in China increasing?. China Economic Review, 2015, 36, 309-322.	2.1	38
42	Economics of climate change and risk of disasters in Asiaâ€“Pacific region. Natural Hazards, 2016, 84, 1-5.	1.6	38
43	CO2 emissions in Beijing: Sectoral linkages and demand drivers. Journal of Cleaner Production, 2017, 166, 395-407.	4.6	34
44	Do subsidies improve the financial performance of renewable energy companies? Evidence from China. Natural Hazards, 2019, 95, 241-256.	1.6	33
45	China×3s carbon mitigation strategies: Enough?. Energy Policy, 2014, 73, 47-56.	4.2	32
46	Does one path fit all? An empirical study on the relationship between energy consumption and economic development for individual Chinese provinces. Energy, 2018, 150, 527-543.	4.5	32
47	Rural energy policy in China. China Agricultural Economic Review, 2018, 10, 224-240.	1.8	32
48	Spatialâ€“temporal variations of embodied carbon emission in global trade flows: 41 economies and 35 sectors. Natural Hazards, 2015, 78, 1125-1144.	1.6	31
49	Is the CO2 emissions reduction from scale change, structural change or technology change? Evidence from non-metallic sector of 11 major economies in 1995â€“2009. Journal of Cleaner Production, 2017, 148, 148-157.	4.6	30
50	Carbon dioxide emissions from the electricity sector in major countries: a decomposition analysis. Environmental Science and Pollution Research, 2018, 25, 6814-6825.	2.7	30
51	Assessment of equity principles for international climate policy based on an integrated assessment model. Natural Hazards, 2019, 95, 309-323.	1.6	30
52	Local government competition on setting emission reduction goals. Science of the Total Environment, 2020, 745, 141002.	3.9	30
53	Climate impacts: temperature and electricity consumption. Natural Hazards, 2019, 99, 1259-1275.	1.6	28
54	The role of weather conditions in COVID-19 transmission: A study of a global panel of 1236 regions. Journal of Cleaner Production, 2021, 292, 125987.	4.6	26

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55	A dynamic forward-citation full path model for technology monitoring: An empirical study from shale gas industry. Applied Energy, 2017, 205, 769-780.	5.1	26
56	The demand for coal among China's rural households: Estimates of price and income elasticities. Energy Economics, 2019, 80, 928-936.	5.6	25
57	Energy economics and climate policy modeling. Annals of Operations Research, 2017, 255, 1-7.	2.6	23
58	The Relationship between Residential Electricity Consumption and Income: A Piecewise Linear Model with Panel Data. Energies, 2016, 9, 831.	1.6	22
59	Forecasting residential electricity demand in provincial China. Environmental Science and Pollution Research, 2017, 24, 6414-6425.	2.7	20
60	Income elasticity of cooking fuel substitution in rural China: Evidence from population census data. Journal of Cleaner Production, 2018, 199, 1083-1091.	4.6	20
61	The status of household heating in northern China: a field survey in towns and villages. Environmental Science and Pollution Research, 2020, 27, 16145-16158.	2.7	20
62	Residential Fuel Choice in Rural Areas: Field Research of Two Counties of North China. Sustainability, 2017, 9, 609.	1.6	19
63	Measuring energy economic efficiency: A mathematical programming approach. Applied Energy, 2016, 179, 479-487.	5.1	17
64	Toward Decoupling: Growing GDP without Growing Carbon Emissions. Environmental Science & Technology, 2016, 50, 11435-11436.	4.6	16
65	Frontiers of low-carbon technologies: Results from bibliographic coupling with sliding window. Journal of Cleaner Production, 2018, 190, 422-431.	4.6	16
66	Energy conservation in China: Key provincial sectors at two-digit level. Applied Energy, 2013, 104, 457-465.	5.1	15
67	Integrating Sustainability Into City-level CO2 Accounting: Social Consumption Pattern and Income Distribution. Ecological Economics, 2018, 153, 1-16.	2.9	15
68	The pattern of household energy transition. Energy, 2021, 234, 121277.	4.5	15
69	Why did the historical energy forecasting succeed or fail? A case study on IEA's projection. Technological Forecasting and Social Change, 2016, 107, 90-96.	6.2	14
70	Empirical analysis on the effectiveness of air quality control measures during mega events: Evidence from Beijing, China. Journal of Cleaner Production, 2020, 271, 122536.	4.6	13
71	Cooking fuel types and the health effects: A field study in China. Energy Policy, 2022, 167, 113012.	4.2	13
72	The impacts of migrant workers consumption on energy use and CO2 emissions in China. Natural Hazards, 2016, 81, 725-743.	1.6	11

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73	How Chinaâ€™s current energy pricing mechanisms will impact its marginal carbon abatement costs?. Mitigation and Adaptation Strategies for Global Change, 2016, 21, 799-821.	1.0	11
74	The Disease Burden of Indoor Air Pollution From Solid Fuel Use in China. Asia-Pacific Journal of Public Health, 2018, 30, 387-395.	0.4	11
75	Temperature change and electricity consumption of the group living: A case study of college students. Science of the Total Environment, 2021, 781, 146574.	3.9	11
76	The role of public energy R&D in energy conservation and transition: Experiences from IEA countries. Renewable and Sustainable Energy Reviews, 2021, 143, 110978.	8.2	10
77	A social learning approach to carbon capture and storage demonstration project management: An empirical analysis. Applied Energy, 2021, 299, 117336.	5.1	10
78	Structural decomposition analysis on energy intensity changes at regional level. Transactions of Tianjin University, 2013, 19, 287-292.	3.3	9
79	Road transport energy consumption in the G7 and BRICS: 1973-2010. International Journal of Global Energy Issues, 2015, 38, 342.	0.2	8
80	Key sectors in carbon footprint responsibility at the city level: a case study of Beijing. International Journal of Climate Change Strategies and Management, 2017, 9, 749-776.	1.5	8
81	Revision on Chinaâ€™s energy data by sector and fuel type at provincial level. Energy Efficiency, 2019, 12, 849-861.	1.3	7
82	IMPACTS OF MECHANISMS TO PROMOTE PARTICIPATION IN CLIMATE MITIGATION: BORDER CARBON ADJUSTMENTS VERSUS UNIFORM TARIFF MEASURES. Climate Change Economics, 2020, 11, 2041007.	2.9	7
83	Will the aggregation approach affect energy efficiency performance assessment?. Renewable and Sustainable Energy Reviews, 2012, 16, 4537-4542.	8.2	6
84	The Nonlinear Impacts of Global Warming on Regional Economic Production: An Empirical Analysis from China. Weather, Climate, and Society, 2020, 12, 759-769.	0.5	6
85	Energy Economics: Energy Efficiency in China. , 2016, , .		5
86	Health effects of cooking fuel transition: A dynamic perspective. Energy, 2022, 251, 123907.	4.5	5
87	The pattern of electricity use in residential sector: The experiences from 133 economies. Energy, 2018, 145, 515-525.	4.5	4
88	Pathway comparison of limiting global warming to 2Â°C. Energy and Climate Change, 2021, 2, 100063.	2.2	4
89	Impact of removal of city gas subsidies on Chinese urban residents. Transactions of Tianjin University, 2012, 18, 309-314.	3.3	3
90	China's fiscal decentralization and environmental quality: theory and an empirical study â€“ Erratum. Environment and Development Economics, 2020, 25, 204-204.	1.3	3

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91	Adaptive responses: the effects of temperature levels on residential electricity use in China. Climatic Change, 2022, 172, .	1.7	2
92	China targets 20% reduction in energy intensity by 2010. International Journal of Global Energy Issues, 2009, 31, 10.	0.2	1
93	Global Energy Development and Energy Poverty. , 2018, , 1-42.		1
94	Integrating cost information in energy efficiency measurement: An empirical study on thermal power companies. Energy Efficiency, 2020, 13, 697-709.	1.3	1
95	The Role of Weather Conditions in COVID-19 Transmission: A Study of a Global Panel of 1236 Regions. SSRN Electronic Journal, 0, , .	0.4	1
96	Introduction to the special issue of Energy Strategy Reviews on â€œEast Asian Energy System Management Challengesâ€• Energy Strategy Reviews, 2013, 2, 133-135.	3.3	0
97	Divisia decomposition method and its application to changes of net oil import intensity. Transactions of Tianjin University, 2014, 20, 72-78.	3.3	0
98	Measurements and General Characteristics of Energy Poverty in China. , 2018, , 43-72.		0
99	Energy Poverty in China: A Comprehensive Assessment and Region-specific Comparison. , 2018, , 73-121.		0
100	Solid Fuels in Rural and Their Impacts on Resident Health. , 2018, , 145-174.		0
101	Energy Poverty Elimination Policies and Actions. , 2018, , 253-276.		0
102	Prospects and Challenges of Energy Poverty Mitigation. , 2018, , 277-294.		0
103	Ambient Temperature and Food Behavior of Consumer: A Case Study of China. Weather, Climate, and Society, 2021, , .	0.5	0
104	Prospects of Chinaâ€™s Energy Efficiency. , 2016, , 319-339.		0
105	Energy Saving Potential from End-Use Efficiency Improvements and Its Socioeconomic Impacts. , 2016, , 299-318.		0
106	Relationship Between Energy Efficiency and the Economic System: Measuring Energy Efficiency. , 2016, , 53-80.		0
107	Energy Development in the World and China. , 2016, , 1-51.		0
108	Chinaâ€™s Regional Energy Efficiency. , 2016, , 249-276.		0

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109	Energy Efficiency in Developed Countries and Its Implications for China. , 2016, , 277-297.		0
110	Impact of Economic Structural Changes on Energy Macro-efficiency. , 2016, , 81-118.		0
111	Residential Energy Consumption. , 2016, , 119-166.		0
112	Energy Efficiency in Key Sectors. , 2016, , 167-232.		0
113	Goal setting for low-carbon development in regional China: role of achievement in the last term. Environment, Development and Sustainability, 0, , .	2.7	0