Lei Zhu

List of Publications by Year
in descending order

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70 papers	2,440 citations	218381 26 h-index	205818 48 g-index
72 all docs	72 docs citations	72 times ranked	1902 citing authors

#	Article	IF	Citations
1	How will the emissions trading scheme save cost for achieving Chinaâ€™s 2020 carbon intensity reduction target?. Applied Energy, 2014, 136, 1043-1052.	5.1	274
2	Evaluation of potential reductions in carbon emissions in Chinese provinces based on environmental DEA. Energy Policy, 2011, 39, 2352-2360.	4.2	201
3	A real optionsâ€“based CCS investment evaluation model: Case study of Chinaâ€™s power generation sector. Applied Energy, 2011, 88, 4320-4333.	5.1	154
4	Cost of energy saving and CO2 emissions reduction in Chinaâ€™s iron and steel sector. Applied Energy, 2014, 130, 603-616.	5.1	151
5	A study on embodied carbon transfer at the provincial level of China from a social network perspective. Journal of Cleaner Production, 2019, 225, 1089-1104.	4.6	102
6	Embodied energy, export policy adjustment and China's sustainable development: A multi-regional input-output analysis. Energy, 2015, 82, 457-467.	4.5	90
7	Can China achieve its 2030 energy development targets by fulfilling carbon intensity reduction commitments?. Energy Economics, 2019, 83, 61-73.	5.6	84
8	Optimization of China's generating portfolio and policy implications based on portfolio theory. Energy, 2010, 35, 1391-1402.	4.5	79
9	Business model design for the carbon capture utilization and storage (CCUS) project in China. Energy Policy, 2018, 121, 519-533.	4.2	77
10	Whatâ€™s the most cost-effective policy of CO2 targeted reduction: An application of aggregated economic technological model with CCS?. Applied Energy, 2013, 112, 866-875.	5.1	71
11	A real options based model and its application to China's overseas oil investment decisions. Energy Economics, 2010, 32, 627-637.	5.6	63
12	Can an emission trading scheme promote the withdrawal of outdated capacity in energy-intensive sectors? A case study on China's iron and steel industry. Energy Economics, 2017, 63, 332-347.	5.6	60
13	CO2 mitigation potential of CCS in China â€“ an evaluation based on an integrated assessment model. Journal of Cleaner Production, 2015, 103, 934-947.	4.6	57
14	The impact of the EU ETS on the corporate value of European electricity corporations. Energy, 2012, 45, 3-11.	4.5	56
15	Modelling the investment in carbon capture retrofits of pulverized coal-fired plants. Energy, 2013, 57, 66-75.	4.5	51
16	A simulation based real options approach for the investment evaluation of nuclear power. Computers and Industrial Engineering, 2012, 63, 585-593.	3.4	49
17	Economic analysis of grid integration of variable solar and wind power with conventional power system. Applied Energy, 2020, 264, 114706.	5.1	43
18	Optimal carbon taxes in carbon-constrained China: A logistic-induced energy economic hybrid model. Energy, 2014, 69, 345-356.	4.5	42

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19	Transaction costs, market structure and efficient coverage of emissions trading scheme: A microlevel study from the pilots in China. Applied Energy, 2018, 220, 657-671.	5.1	40
20	A Landslide Susceptibility Assessment Method Based on GIS Technology and an AHP-Weighted Information Content Method: A Case Study of Southern Anhui, China. ISPRS International Journal of Geo-Information, 2019, 8, 266.	1.4	39
21	Modeling the emission trading scheme from an agent-based perspective: System dynamics emerging from firmsâ€™ coordination among abatement options. European Journal of Operational Research, 2020, 286, 1113-1128.	3.5	36
22	Enabled comparative advantage strategy in China's solar PV development. Energy Policy, 2019, 133, 110880.	4.2	32
23	Design and analysis of the green climate fund. Journal of Systems Science and Systems Engineering, 2014, 23, 266-299.	0.8	30
24	How will diffusion of PV solar contribute to China×³s emissions-peaking and climate responses?. Renewable and Sustainable Energy Reviews, 2016, 53, 1076-1085.	8.2	30
25	Co-financing in the green climate fund: lessons from the global environment facility. Climate Policy, 2020, 20, 95-108.	2.6	29
26	Delaying the introduction of emissions trading systemsâ€”Implications for power plant investment and operation from a multi-stage decision model. Energy Economics, 2015, 52, 255-264.	5.6	28
27	Efficiency evaluation of thermal power plants in China based on the weighted Russell directional distance method. Journal of Cleaner Production, 2019, 222, 573-583.	4.6	28
28	Evaluating coal bed methane investment in China based on a real options model. Resources Policy, 2013, 38, 50-59.	4.2	27
29	Overseas oil investment projects under uncertainty: How to make informed decisions?. Journal of Policy Modeling, 2015, 37, 742-762.	1.7	27
30	Estimating the Macroeconomic Costs of CO2 Emission Reduction in China Based on Multi-objective Programming. Advances in Climate Change Research, 2010, 1, 27-33.	2.1	26
31	A cross-country study on the relationship between diffusion of wind and photovoltaic solar technology. Technological Forecasting and Social Change, 2014, 83, 156-169.	6.2	25
32	Modelling the Evolutionary Paths of Multiple Carbon-Free Energy Technologies with Policy Incentives. Environmental Modeling and Assessment, 2015, 20, 55-69.	1.2	24
33	Imperfect market, emissions trading scheme, and technology adoption: A case study of an energy-intensive sector. Energy Economics, 2019, 81, 142-158.	5.6	24
34	Is it worth to invest? -An evaluation of CTL-CCS project in China based on real options. Energy, 2019, 182, 920-931.	4.5	22
35	Optimization of dynamic incentive for the deployment of carbon dioxide removal technology: A nonlinear dynamic approach combined with real options. Energy Economics, 2020, 86, 104643.	5.6	22
36	Economic evaluation of the trilateral FTA among China, Japan, and South Korea with big data analytics. Computers and Industrial Engineering, 2019, 128, 1040-1051.	3.4	17

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37	Cost and potential for CO2 emissions reduction in Chinaâ€™s petroleum refining sectorâ€”A bottom up analysis. Energy Reports, 2020, 6, 497-506.	2.5	17
38	Emission path planning based on dynamic abatement cost curve. European Journal of Operational Research, 2016, 255, 996-1013.	3.5	16
39	Using Floor Price Mechanisms to Promote Carbon Capture and Storage (Ccs) Investment and Co₂ Abatement. Energy and Environment, 2014, 25, 687-707.	2.7	15
40	Buying green or producing green? Heterogeneous emittersâ€™ strategic choices under a phased emission-trading scheme. Resources, Conservation and Recycling, 2018, 136, 223-237.	5.3	15
41	How to design a dynamic feed-in tariffs mechanism for renewables â€“ a real options approach. International Journal of Production Research, 2020, 58, 4352-4366.	4.9	13
42	Long-Term Impacts of Carbon Tax and Feed-in Tariff Policies on China's Generating Portfolio and Carbon Emissions: A Multi-Agent-Based Analysis. Energy and Environment, 2013, 24, 1271-1293.	2.7	11
43	Analysis of Global CCS Technology, Regulations and Its Potential for Emission Reduction with Focus on China. Advances in Climate Change Research, 2011, 2, 57-66.	2.1	10
44	Policy uncertainties: What investment choice for solar panel producers?. Energy Economics, 2019, 78, 454-467.	5.6	10
45	Policy choice for end-of-pipe abatement technology adoption under technological uncertainty. Economic Modelling, 2020, 87, 121-130.	1.8	10
46	Manipulation via endowments: Quantifying the influence of market power on the emission trading scheme. Energy Economics, 2021, 103, 105533.	5.6	10
47	The impacts of emission trading scheme on Chinaâ€™s thermal power industry: A pre-evaluation from the micro level. Energy and Environment, 2020, 31, 1007-1030.	2.7	9
48	Regional Opportunities for China to Go Low-Carbon: Results from the REEC Model. Energy Journal, 2016, 37, 223-252.	0.9	9
49	Energy Efficiency Potentials in the Chlor-Alkali Sector â€” A Case Study of Shandong Province in China. Energy and Environment, 2014, 25, 661-686.	2.7	8
50	Optimal timing of technology adoption under the changeable abatement coefficient through R&D. Computers and Industrial Engineering, 2016, 96, 216-226.	3.4	8
51	The price-bidding strategy for investors in a renewable auction: An option gamesâ€“based study. Energy Economics, 2021, 100, 105331.	5.6	8
52	A non-linear model for estimating the cost of achieving emission reduction targets: The case of the U.S., China and India. Journal of Systems Science and Systems Engineering, 2012, 21, 297-315.	0.8	6
53	Performance evaluation of climate policies in China: A study based on an integrated assessment model. Journal of Cleaner Production, 2017, 164, 1068-1080.	4.6	6
54	Exploring optimal mitigation and adaptation investment strategies in China. Climate Policy, 2018, 18, 781-793.	2.6	6

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55	How do carbon prices react to regulatory announcements in China? A genetic algorithm with overlapping events. Journal of Cleaner Production, 2020, 277, 122644.	4.6	6
56	Influence of allowance allocation events on prices in Chinaâ€™s carbon market pilotsâ€“ an AR-GARCH-based analysis. Energy Sources, Part B: Economics, Planning and Policy, 2020, 15, 157-171.	1.8	5
57	Evaluation of cooperative mitigation: captured carbon dioxide for enhanced oil recovery. Mitigation and Adaptation Strategies for Global Change, 2020, 25, 1261-1285.	1.0	5
58	Promoting the Carbon Removal in Coal Utilization-A Benefit-Risk Analysis among Full-Chain Carbon Capture and Utilization Project. Energy and Environment, 2015, 26, 1035-1053.	2.7	4
59	Market Power and Technology Diffusion in an Energy-Intensive Sector Covered by an Emissions Trading Scheme. Sustainability, 2019, 11, 3870.	1.6	4
60	DESIGNING A GLOBALLY ACCEPTABLE CARBON TAX SCHEME TO ADDRESS COMPETITIVENESS AND LEAKAGE CONCERNS. Climate Change Economics, 2020, 11, 2050008.	2.9	4
61	Strategic carbon taxation and energy pricing under the threat of climate tipping events. Economic Modelling, 2017, 60, 352-363.	1.8	3
62	Impact of Firmsâ€™ Observation Network on the Carbon Market. Energies, 2017, 10, 1164.	1.6	3
63	Dynamics of energy technology diffusion under uncertainty. Applied Stochastic Models in Business and Industry, 2020, 36, 795-808.	0.9	2
64	The impact of potential climate policy on the coal bed methane investment in China - a real option-based study. International Journal of Global Energy Issues, 2013, 36, 96.	0.2	1
65	The Emission Taxes Refunding Scheme Based on Output Subsidies with an Exogenous Abatement Target. Emerging Markets Finance and Trade, 2016, 52, 1385-1394.	1.7	1
66	On the Effectiveness of the Abatement Policy Mix: A Case Study of Chinaâ€™s Energy-Intensive Sectors. Energies, 2018, 11, 559.	1.6	1
67	An Evaluation of Overseas Oil Investment Projects Under Uncertainty Using a Real Options Based Simulation Model. SSRN Electronic Journal, 0, , .	0.4	1
68	Impact of Generation Companiesâ€™ Heterogeneous Investment Behaviors on the Effects of Non-fossil Energy Incentive Policies. , 2021, , .		1
69	The Investment Evaluation of Third-Generation Nuclear Power - From the Perspective of Real Options. , 0, , .		0
70	A Comparison of Two Approaches for Damage Evaluation on Optimal Mitigation and Adaptation Responses in China. Journal of Systems Science and Complexity, 2019, 32, 1641-1658.	1.6	0