Peng Zhou

List of Publications by Year
in descending order

153 papers	15,599 citations	22548 61 h-index	20023 121 g-index
157 all docs	157 docs citations	157 times ranked	7843 citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of global fossil fuel trade dependencies. Energy, 2022, 238, 121924.	4.5	71
2	How does the photovoltaic industry contribute to China's carbon neutrality goal? Analysis of a system dynamics simulation. Science of the Total Environment, 2022, 808, 151868.	3.9	41
3	The drivers of energy intensity changes in Chinese cities: A production-theoretical decomposition analysis. Applied Energy, 2022, 307, 118230.	5.1	24
4	Assessing the regional adaptive capacity to renewable portfolio standard policy in China. Energy Policy, 2022, 162, 112798.	4.2	4
5	Regional policy effect on photovoltaic (PV) technology innovation: Findings from 260 cities in China. Energy Policy, 2022, 162, 112807.	4.2	26
6	Optimal subsidy level for waste-to-energy investment considering flexibility and uncertainty. Energy Economics, 2022, 108, 105894.	5.6	5
7	Optimizing urban electric vehicle incentive policy mixes in China: Perspective of residential preference heterogeneity. Applied Energy, 2022, 313, 118794.	5.1	5
8	Optimizing the provincial targetÂallocation scheme of renewable portfolio standards in China. Energy, 2022, 250, 123699.	4.5	6
9	A nonparametric distance function approach with endogenous direction for estimating marginal abatement costs of CO2 emissions. Journal of Management Science and Engineering, 2022, 7, 330-345.	1.9	3
10	A two-step auction-refund allocation rule of CO2 emission permits. Energy Economics, 2022, 113, 106179.	5.6	4
11	How does technological progress promote carbon productivity? Evidence from Chinese manufacturing industries. Journal of Environmental Management, 2021, 277, 111325.	3.8	35
12	Evaluating and Selecting Renewable Energy Sources for a Microgrid: A Bi-Capacity-Based Multi-Criteria Decision Making Approach. IEEE Transactions on Smart Grid, 2021, 12, 921-931.	6.2	9
13	Do marginal abatement costs matter for improving air quality? Evidence from China's major cities. Journal of Environmental Management, 2021, 286, 112123.	3.8	7
14	Impacts of COVID-19 on the electric vehicle industry: Evidence from China. Renewable and Sustainable Energy Reviews, 2021, 144, 111024.	8.2	74
15	Feed-in tariffs, knowledge stocks and renewable energy technology innovation: The role of local government intervention. Energy Policy, 2021, 156, 112453.	4.2	39
16	Carbon-constrained firm decisions: From business strategies to operations modeling. European Journal of Operational Research, 2020, 281, 1-15.	3.5	61
17	Marginal abatement cost, air pollution and economic growth: Evidence from Chinese cities. Energy Economics, 2020, 86, 104658.	5.6	43
18	Evaluating urban land use efficiency with interacting criteria: An empirical study of cities in Jiangsu China. Land Use Policy, 2020, 90, 104292.	2.5	53

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19	Reassessing the climate change cooperation performance via a non-compensatory composite indicator approach. Journal of Cleaner Production, 2020, 252, 119387.	4.6	5
20	Modeling carbon emission performance under a new joint production technology with energy input. Energy Economics, 2020, 92, 104963.	5.6	17
21	Assessing the role of technology in global manufacturing energy intensity change: A production-theoretical decomposition analysis. Technological Forecasting and Social Change, 2020, 160, 120245.	6.2	11
22	Evaluation and Prediction of Wind Power Utilization Efficiency Based on Super-SBM and LSTM Models: A Case Study of 30 Provinces in China. Complexity, 2020, 2020, 1-13.	0.9	2
23	Handling heterogeneity in frontier modeling of city-level energy efficiency: The case of China. Applied Energy, 2020, 279, 115846.	5.1	36
24	Optimization of power dispatching strategies integrating management attitudes with low carbon factors. Renewable Energy, 2020, 155, 555-568.	4.3	7
25	Assessing sustainability performance of global supply chains: An input-output modeling approach. European Journal of Operational Research, 2020, 285, 393-404.	3.5	46
26	Optimal policy supports for renewable energy technology development: A dynamic programming model. Energy Economics, 2020, 92, 104765.	5.6	37
27	The continuing evolution of Energy Policy. Energy Policy, 2020, 139, 111459.	4.2	9
28	The impacts of the coal-electricity price linkage on the profit efficiency of China's thermal power plants. International Journal of Production Research, 2019, 57, 7457-7470.	4.9	29
29	An exact branch‐and‐price algorithm for multitasking scheduling on unrelated parallel machines. Naval Research Logistics, 2019, 66, 502-516.	1.4	27
30	Energy security and environmental sustainability index of South Asian countries: A composite index approach. Ecological Indicators, 2019, 106, 105507.	2.6	190
31	An improved production-theoretical approach to decomposing carbon dioxide emissions. Journal of Environmental Management, 2019, 252, 109577.	3.8	39
32	Assessing the environmental externalities for biomass- and coal-fired electricity generation in China: A supply chain perspective. Journal of Environmental Management, 2019, 246, 758-767.	3.8	65
33	Assessing the Role of Domestic Value Chains in China's CO2 Emission Intensity: A Multi-Region Structural Decomposition Analysis. Environmental and Resource Economics, 2019, 74, 865-890.	1.5	12
34	Analyzing barriers of Smart Energy City in Accra with two-step fuzzy DEMATEL. Cities, 2019, 89, 218-227.	2.7	53
35	Assessing the effectiveness of city-level electric vehicle policies in China. Energy Policy, 2019, 130, 22-31.	4.2	92
36	Reassessment of global climate risk: non-compensatory or compensatory?. Natural Hazards, 2019, 95, 271-287.	1.6	4

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37	Driving factors of carbon emissions in China: A joint decomposition approach based on meta-frontier. Applied Energy, 2019, 256, 113986.	5.1	46
38	Low-carbon power dispatch with wind power based on carbon trading mechanism. Energy, 2019, 170, 250-260.	4.5	50
39	Assessing drivers of CO_2 emissions in China's electricity sector: A metafrontier production-theoretical decomposition analysis. European Journal of Operational Research, 2019, 275, 1096-1107.	3.5	61
40	Balancing low-carbon power dispatching strategy for wind power integrated system. Energy, 2018, 149, 914-924.	4.5	24
41	Understanding the determinants of travel mode choice of residents and its carbon mitigation potential. Energy Policy, 2018, 115, 486-493.	4.2	53
42	Contributions to sector-level carbon intensity change: An integrated decomposition analysis. Energy Economics, 2018, 70, 12-25.	5.6	154
43	Transnational transfer of carbon emissions embodied in trade: Characteristics and determinants from a spatial perspective. Energy, 2018, 147, 858-875.	4.5	97
44	Composite Indicators for Sustainability Assessment: Methodological Developments. , 2018, , 15-36.		1
45	A non-compensatory composite indicator approach to assessing low-carbon performance. European Journal of Operational Research, 2018, 270, 352-361.	3.5	31
46	Factors driving energy consumption in China: A joint decomposition approach. Journal of Cleaner Production, 2018, 172, 724-734.	4.6	82
47	Carbon emissions abatement: Emissions trading vs consumer awareness. Energy Economics, 2018, 76, 34-47.	5.6	59
48	Impacts of regional governmental incentives on the straw power industry in China: A game-theoretic analysis. Journal of Cleaner Production, 2018, 203, 1095-1105.	4.6	13
49	Structural Changes in Provincial Emission Transfers within China. Environmental Science & Technology, 2018, 52, 12958-12967.	4.6	37
50	City-level environmental performance in China. Energy, Ecology and Environment, 2018, 3, 149-161.	1.9	14
51	Revisiting cross-province energy intensity convergence in China: A spatial panel analysis. Energy Policy, 2018, 121, 252-263.	4.2	85
52	Assessing oil supply security of South Asia. Energy, 2018, 155, 438-447.	4.5	176
53	Assessing Global CO_2 Emission Inequality From Consumption Perspective: An Index Decomposition Analysis. Ecological Economics, 2018, 154, 257-271.	2.9	74
54	Multi-country comparisons of CO_2 emission intensity: The production-theoretical decomposition analysis approach. Energy Economics, 2018, 74, 310-320.	5.6	52

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55	Decomposing Aggregate CO$_2$ Emission Changes with Heterogeneity: An Extended Production-theoretical Approach. Energy Journal, 2018, 39, 59-80.	0.9	31
56	Total-factor energy efficiency with congestion. Annals of Operations Research, 2017, 255, 241-256.	2.6	25
57	Whole process decomposition of energy-related SO 2 in Jiangsu Province, China. Applied Energy, 2017, 194, 679-687.	5.1	62
58	Optimal design of subsidy to stimulate renewable energy investments: The case of China. Renewable and Sustainable Energy Reviews, 2017, 71, 873-883.	8.2	72
59	Does energy efficiency affect financial performance? Evidence from Chinese energy-intensive firms. Journal of Cleaner Production, 2017, 151, 53-59.	4.6	74
60	Constructing meaningful environmental indices: A nonparametric frontier approach. Journal of Environmental Economics and Management, 2017, 85, 21-34.	2.1	69
61	Microsimulation of low carbon urban transport policies in Beijing. Energy Policy, 2017, 107, 561-572.	4.2	20
62	What drives CO2 emissions from China's civil aviation? An exploration using a new generalized PDA method. Transportation Research, Part A: Policy and Practice, 2017, 99, 30-45.	2.0	39
63	Measuring energy performance with sectoral heterogeneity: A non-parametric frontier approach. Energy Economics, 2017, 62, 70-78.	5.6	45
64	Dynamic carbon emission performance of Chinese airlines: A global Malmquist index analysis. Journal of Air Transport Management, 2017, 65, 99-109.	2.4	51
65	Does emission permit allocation affect CO2 cost pass-through? A theoretical analysis. Energy Economics, 2017, 66, 140-146.	5.6	26
66	Measuring national energy performance via Energy Trilemma Index: A Stochastic Multicriteria Acceptability Analysis. Energy Economics, 2017, 66, 313-319.	5.6	57
67	Emissions embodied in global trade have plateaued due to structural changes in China. Earth's Future, 2017, 5, 934-946.	2.4	44
68	Decomposition Analysis of Aggregate Energy Consumption in China: An Exploration Using a New Generalized PDA Method. Sustainability, 2017, 9, 685.	1.6	17
69	A Review of Low-Carbon Transformation and Energy Innovation Issues in China. Sustainability, 2017, 9, 1238.	1.6	1
70	Data Envelopment Analysis for Measuring Environmental Performance. Profiles in Operations Research, 2016, , 31-49.	0.3	15
71	Desirable Strategic Petroleum Reserves policies in response to supply uncertainty: A stochastic analysis. Applied Energy, 2016, 162, 1523-1529.	5.1	13
72	Constructing slacks-based composite indicator of sustainable energy development for China: A meta-frontier nonparametric approach. Energy, 2016, 101, 218-228.	4.5	24

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73	Measuring total-factor CO2 emission performance and technology gaps using a non-radial directional distance function: A modified approach. Energy Economics, 2016, 56, 475-482.	5.6	108
74	Output-specific energy efficiency assessment: A data envelopment analysis approach. Applied Energy, 2016, 177, 117-126.	5.1	22
75	Dispatching strategies for coordinating environmental awareness and risk perception in wind power integrated system. Energy, 2016, 106, 453-463.	4.5	26
76	Decoupling and attribution analysis of industrial carbon emissions in Taiwan. Energy, 2016, 113, 728-738.	4.5	69
77	Optimal feed-in tariff for solar photovoltaic power generation in China: A real options analysis. Energy Policy, 2016, 97, 181-192.	4.2	95
78	A real options model for renewable energy investment with application to solar photovoltaic power generation in China. Energy Economics, 2016, 59, 213-226.	5.6	148
79	Measuring China's regional energy and carbon emission efficiency with DEA models: A survey. Applied Energy, 2016, 183, 1-21.	5.1	244
80	Carbon dioxide emissions allocation: A review. Ecological Economics, 2016, 125, 47-59.	2.9	235
81	Industrial energy conservation and emission reduction performance in China: A city-level nonparametric analysis. Applied Energy, 2016, 166, 201-209.	5.1	87
82	Does there exist energy congestion? Empirical evidence from Chinese industrial sectors. Energy Efficiency, 2016, 9, 371-384.	1.3	18
83	Desirable policies of a strategic petroleum reserve in coping with disruption risk: A Markov decision process approach. Computers and Operations Research, 2016, 66, 58-66.	2.4	9
84	Measurement and decomposition of energy-saving and emissions reduction performance in Chinese cities. Applied Energy, 2015, 151, 85-92.	5.1	155
85	A novel weight allocation and decision making method for space launch vehicle design concept selection. International Journal of Industrial and Systems Engineering, 2015, 19, 155.	0.1	3
86	Oil price crisis response: Capability assessment and key indicator identification. Energy, 2015, 93, 1353-1360.	4.5	24
87	Measuring Energy Congestion in Chinese Industrial Sectors: A Slacks-Based DEA Approach. Computational Economics, 2015, 46, 479-494.	1.5	18
88	Modeling for Dynamic Economic Emission Dispatch Under Uncertainty. Electric Power Components and Systems, 2015, 43, 1630-1643.	1.0	6
89	Directional shadow price estimation of CO_2, SO_2 and NO_x in the United States coal power industry 1990–2010. Energy Economics, 2015, 51, 493-502.	5.6	86
90	Evaluating clean energy alternatives for Jiangsu, China: An improved multi-criteria decision making method. Energy, 2015, 90, 953-964.	4.5	83

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91	Marginal CO_2 abatement costs: Findings from alternative shadow price estimates for Shanghai industrial sectors. Energy Policy, 2015, 77, 109-117.	4.2	110
92	Total-factor carbon emission performance of the Chinese transportation industry: A bootstrapped non-radial Malmquist index analysis. Renewable and Sustainable Energy Reviews, 2015, 41, 584-593.	8.2	206
93	Energy Efficiency and Energy Saving Potential in China: A Directional Meta-Frontier DEA Approach. Sustainability, 2014, 6, 5476-5492.	1.6	45
94	A Site Selection Model for a Straw-Based Power Generation Plant with CO_2 Emissions. Sustainability, 2014, 6, 7466-7481.	1.6	17
95	Does Congestion Affect Total-factor Energy Efficiency? A Theoretical Study. Energy Procedia, 2014, 61, 294-298.	1.8	4
96	Inefficiency and Congestion Assessment of Mix Energy Consumption in 16 APEC Countries by using DEA Window Analysis. Energy Procedia, 2014, 61, 2518-2523.	1.8	22
97	Desirable SPR Policies in Coping with Various Market Uncertainties: A Markov Decision Process Analysis. Energy Procedia, 2014, 61, 2478-2484.	1.8	1
98	Measuring environmental performance with stochastic environmental DEA: The case of APEC economies. Economic Modelling, 2014, 38, 80-86.	1.8	65
99	On estimating shadow prices of undesirable outputs with efficiency models: A literature review. Applied Energy, 2014, 130, 799-806.	5.1	175
100	Efficiency measurement of Chinese airports with flight delays by directional distance function. Journal of Air Transport Management, 2014, 34, 140-145.	2.4	51
101	Political connections, government subsidies and firm financial performance: Evidence from renewable energy manufacturing in China. Renewable Energy, 2014, 63, 330-336.	4.3	169
102	Does environmental regulation affect energy efficiency in China's thermal power generation? Empirical evidence from a slacks-based DEA model. Energy Policy, 2014, 66, 537-546.	4.2	350
103	Macroeconomic effects of oil price shocks in China: An empirical study based on Hilbert–Huang transform and event study. Applied Energy, 2014, 136, 1053-1066.	5.1	55
104	Sectoral comparison of electricity-saving potentials in China: An analysis based on provincial input–output tables. Energy, 2014, 72, 772-782.	4.5	23
105	Stockpile strategy for China×³s emergency oil reserve: A dynamic programming approach. Energy Policy, 2014, 73, 12-20.	4.2	9
106	Optimal path for controlling CO_2 emissions in China: A perspective of efficiency analysis. Energy Economics, 2014, 45, 99-110.	5.6	136
107	A real option model for renewable energy policy evaluation with application to solar PV power generation in China. Renewable and Sustainable Energy Reviews, 2014, 40, 944-955.	8.2	88
108	Modelling policy decision of sustainable energy strategies for Nanjing city: A fuzzy integral approach. Renewable Energy, 2014, 62, 197-203.	4.3	33

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109	The effect of size-control policy on unified energy and carbon efficiency for Chinese fossil fuel power plants. Energy Policy, 2014, 70, 193-200.	4.2	188
110	Environmental/economic power dispatch with wind power. Renewable Energy, 2014, 71, 234-242.	4.3	38
111	Energy efficiency and production technology heterogeneity in China: A meta-frontier DEA approach. Economic Modelling, 2013, 35, 283-289.	1.8	280
112	Integrated scenarios of energy-related CO_2 emissions in Ireland: A multi-sectoral analysis to 2020. Ecological Economics, 2013, 93, 385-397.	2.9	31
113	Energy efficiency, CO_2 emission performance and technology gaps in fossil fuel electricity generation in Korea: A meta-frontier non-radial directional distance functionanalysis. Energy Policy, 2013, 56, 653-662.	4.2	316
114	An approach for space launch vehicle conceptual design and multi-attribute evaluation. Aerospace Science and Technology, 2013, 25, 65-74.	2.5	28
115	Measuring carbon dioxide emission performance in Chinese provinces: A parametric approach. Renewable and Sustainable Energy Reviews, 2013, 21, 324-330.	8.2	113
116	Measuring environmental performance in China's industrial sectors with non-radial DEA. Mathematical and Computer Modelling, 2013, 58, 1047-1056.	2.0	59
117	Scenario-based energy efficiency and productivity in China: A non-radial directional distance function analysis. Energy Economics, 2013, 40, 795-803.	5.6	145
118	Modeling economic performance of interprovincial CO_2 emission reduction quota trading in China. Applied Energy, 2013, 112, 1518-1528.	5.1	185
119	Cost Analysis of straw-based power generation in Jiangsu Province, China. Applied Energy, 2013, 102, 785-793.	5.1	67
120	Modelling and analysis of oil import tariff and stockpile policies for coping with supply disruptions. Applied Energy, 2012, 97, 84-90.	5.1	25
121	Efficiency and abatement costs of energy-related CO_2 emissions in China: A slacks-based efficiency measure. Applied Energy, 2012, 98, 198-208.	5.1	500
122	Optimal path for China's strategic petroleum reserve: A dynamic programming analysis. Energy Economics, 2012, 34, 1058-1063.	5.6	22
123	Industrial energy efficiency with CO_2 emissions in China: A nonparametric analysis. Energy Policy, 2012, 49, 164-172.	4.2	278
124	Efficiency measurement with carbon dioxide emissions: The case of China. Applied Energy, 2012, 90, 161-166.	5.1	165
125	Measuring economy-wide energy efficiency performance: A parametric frontier approach. Applied Energy, 2012, 90, 196-200.	5.1	312
126	Direct rebound effect for passenger transport: Empirical evidence from Hong Kong. Applied Energy, 2012, 92, 162-167.	5.1	31

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127	Energy and CO2 emission performance in electricity generation: A non-radial directional distance function approach. European Journal of Operational Research, 2012, 221, 625-635.	3.5	669
128	An empirical study of direct rebound effect for passenger transport in urban China. Energy Economics, 2012, 34, 452-460.	5.6	121
129	The driving forces of change in energy-related CO2 emissions in Ireland: A multi-sectoral decomposition from 1990 to 2007. Energy Policy, 2012, 44, 256-267.	4.2	91
130	CO2 emissions, energy consumption and economic growth in China: A panel data analysis. Energy Policy, 2011, 39, 4870-4875.	4.2	625
131	Potential for reducing global carbon emissions from electricity production—A benchmarking analysis. Energy Policy, 2011, 39, 2482-2489.	4.2	56
132	Total factor carbon emission performance: A Malmquist index analysis. Energy Economics, 2010, 32, 194-201.	5.6	583
133	Data aggregation in constructing composite indicators: A perspective of information loss. Expert Systems With Applications, 2010, 37, 360-365.	4.4	60
134	Weighting and Aggregation in Composite Indicator Construction: a Multiplicative Optimization Approach. Social Indicators Research, 2010, 96, 169-181.	1.4	176
135	Input–output analysis of CO2 emissions embodied in trade: The effects of sector aggregation. Energy Economics, 2010, 32, 166-175.	5.6	375
136	Accounting frameworks for tracking energy efficiency trends. Energy Economics, 2010, 32, 1209-1219.	5.6	199
137	An extension to data envelopment analysis with preference structure for estimating overall inefficiency. Applied Mathematics and Computation, 2010, 216, 812-818.	1.4	1
138	Partition-conditional ICA for Bayesian classification of microarray data. Expert Systems With Applications, 2010, 37, 8188-8192.	4.4	14
139	An Optimization–based Composite Indicators Approach to Performance Assessment. Incose International Symposium, 2009, 19, 1676-1687.	0.2	0
140	A sequential feature extraction approach for naïve bayes classification of microarray data. Expert Systems With Applications, 2009, 36, 9919-9923.	4.4	53
141	Comparing MCDA Aggregation Methods in Constructing Composite Indicators Using the Shannon-Spearman Measure. Social Indicators Research, 2009, 94, 83-96.	1.4	123
142	Linear programming models for measuring economy-wide energy efficiency performance. Energy Policy, 2008, 36, 2911-2916.	4.2	411
143	Measuring environmental performance under different environmental DEA technologies. Energy Economics, 2008, 30, 1-14.	5.6	422
144	Decomposition of aggregate CO2 emissions: A production-theoretical approach. Energy Economics, 2008, 30, 1054-1067.	5.6	261

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145	A survey of data envelopment analysis in energy and environmental studies. European Journal of Operational Research, 2008, 189, 1-18.	3.5	942
146	Indicators for Assessing Sustainability Performance. , 2008, , 905-918.		13
147	A multiplicative optimization model for constructing composite indicators. , 2007, , .		0
148	A non-radial DEA approach to measuring environmental performance. European Journal of Operational Research, 2007, 178, 1-9.	3.5	411
149	A note on multi-criteria ABC inventory classification using weighted linear optimization. European Journal of Operational Research, 2007, 182, 1488-1491.	3.5	170
150	A mathematical programming approach to constructing composite indicators. Ecological Economics, 2007, 62, 291-297.	2.9	257
151	Decision analysis in energy and environmental modeling: An update. Energy, 2006, 31, 2604-2622.	4.5	198
152	Comparing aggregating methods for constructing the composite environmental index: An objective measure. Ecological Economics, 2006, 59, 305-311.	2.9	205
153	Slacks-based efficiency measures for modeling environmental performance. Ecological Economics, 2006, 60, 111-118.	2.9	383