

Ning Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

136
papers

9,940
citations

36303

51
h-index

39675

94
g-index

143
all docs

143
docs citations

143
times ranked

6147
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficiency and abatement costs of energy-related CO2 emissions in China: A slacks-based efficiency measure. <i>Applied Energy</i> , 2012, 98, 198-208.	10.1	500
2	Near-real-time monitoring of global CO2 emissions reveals the effects of the COVID-19 pandemic. <i>Nature Communications</i> , 2020, 11, 5172.	12.8	420
3	Environmental efficiency analysis of transportation system in China: A non-radial DEA approach. <i>Energy Policy</i> , 2013, 58, 277-283.	8.8	386
4	How does urbanization affect carbon dioxide emissions? A cross-country panel data analysis. <i>Energy Policy</i> , 2017, 107, 678-687.	8.8	367
5	Unequal household carbon footprints in China. <i>Nature Climate Change</i> , 2017, 7, 75-80.	18.8	345
6	Structural decline in China's CO2 emissions through transitions in industry and energy systems. <i>Nature Geoscience</i> , 2018, 11, 551-555.	12.9	340
7	Total-factor carbon emission performance of fossil fuel power plants in China: A metafrontier non-radial Malmquist index analysis. <i>Energy Economics</i> , 2013, 40, 549-559.	12.1	331
8	Energy efficiency, CO2 emission performance and technology gaps in fossil fuel electricity generation in Korea: A meta-frontier non-radial directional distance function analysis. <i>Energy Policy</i> , 2013, 56, 653-662.	8.8	316
9	Low-carbon city pilot and carbon emission efficiency: Quasi-experimental evidence from China. <i>Energy Economics</i> , 2021, 96, 105125.	12.1	280
10	An optimization model for green supply chain management by using a big data analytic approach. <i>Journal of Cleaner Production</i> , 2017, 142, 1085-1097.	9.3	230
11	Environmental energy efficiency of China's regional economies: A non-oriented slacks-based measure analysis. <i>Social Science Journal</i> , 2013, 50, 225-234.	1.5	226
12	Total-factor carbon emission performance of the Chinese transportation industry: A bootstrapped non-radial Malmquist index analysis. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 41, 584-593.	16.4	206
13	A note on the evolution of directional distance function and its development in energy and environmental studies 1997-2013. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 33, 50-59.	16.4	199
14	The effect of size-control policy on unified energy and carbon efficiency for Chinese fossil fuel power plants. <i>Energy Policy</i> , 2014, 70, 193-200.	8.8	188
15	Dynamic total factor carbon emissions performance changes in the Chinese transportation industry. <i>Applied Energy</i> , 2015, 146, 409-420.	10.1	175
16	Technical efficiency, shadow price of carbon dioxide emissions, and substitutability for energy in the Chinese manufacturing industries. <i>Energy Economics</i> , 2012, 34, 1492-1497.	12.1	172
17	Measuring ecological total-factor energy efficiency incorporating regional heterogeneities in China. <i>Ecological Indicators</i> , 2015, 51, 165-172.	6.3	162
18	Carbon emissions dynamics, efficiency gains, and technological innovation in China's industrial sectors. <i>Energy</i> , 2016, 99, 10-19.	8.8	152

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19	How do population and land urbanization affect CO2 emissions under gravity center change? A spatial econometric analysis. <i>Journal of Cleaner Production</i> , 2018, 202, 510-523.	9.3	149
20	Eco-benefits assessment on urban industrial symbiosis based on material flows analysis and energy evaluation approach: A case of Liuzhou city, China. <i>Resources, Conservation and Recycling</i> , 2017, 119, 78-88.	10.8	144
21	A comparative study of dynamic changes in CO2 emission performance of fossil fuel power plants in China and Korea. <i>Energy Policy</i> , 2013, 62, 324-332.	8.8	135
22	Carbon footprint of China's belt and road. <i>Science</i> , 2017, 357, 1107-1107.	12.6	134
23	Environmental technical efficiency, technology gap and shadow price of coal-fuelled power plants in China: A parametric meta-frontier analysis. <i>Resources and Energy Economics</i> , 2016, 43, 14-32.	2.5	116
24	The effect of new-type urbanization on energy consumption in China: a spatial econometric analysis. <i>Journal of Cleaner Production</i> , 2017, 163, S299-S305.	9.3	110
25	Analysis on spatial-temporal features of taxis' emissions from big data informed travel patterns: a case of Shanghai, China. <i>Journal of Cleaner Production</i> , 2017, 142, 926-935.	9.3	108
26	Carbon mitigation effects and potential cost savings from carbon emissions trading in China's regional industry. <i>Technological Forecasting and Social Change</i> , 2019, 141, 1-11.	11.6	99
27	Composite eco-efficiency indicators for China based on data envelopment analysis. <i>Ecological Indicators</i> , 2018, 85, 674-697.	6.3	96
28	Knowledge training and the change of fertilizer use intensity: Evidence from wheat farmers in China. <i>Journal of Environmental Management</i> , 2017, 197, 130-139.	7.8	94
29	Industrial eco-efficiency, regional disparity, and spatial convergence of China's regions. <i>Journal of Cleaner Production</i> , 2018, 204, 872-887.	9.3	94
30	Does smart city policy improve energy efficiency? Evidence from a quasi-natural experiment in China. <i>Journal of Cleaner Production</i> , 2019, 229, 501-512.	9.3	89
31	Embodied greenhouse gas emissions from building China's large-scale power transmission infrastructure. <i>Nature Sustainability</i> , 2021, 4, 739-747.	23.7	84
32	Toward green IT: Modeling sustainable production characteristics for Chinese electronic information industry, 1980-2012. <i>Technological Forecasting and Social Change</i> , 2015, 96, 62-70.	11.6	79
33	Balancing regional industrial development: analysis on regional disparity of China's industrial emissions and policy implications. <i>Journal of Cleaner Production</i> , 2016, 126, 223-235.	9.3	73
34	Critical Rare-Earth Elements Mismatch Global Wind-Power Ambitions. <i>One Earth</i> , 2020, 3, 116-125.	6.8	72
35	A coin has two sides: Which one is driving China's green TFP growth?. <i>Economic Systems</i> , 2016, 40, 481-498.	2.2	69
36	CO2 emission patterns in shrinking and growing cities: A case study of Northeast China and the Yangtze River Delta. <i>Applied Energy</i> , 2019, 251, 113384.	10.1	69

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37	Impact of urbanization on energy demand: An empirical study of the Yangtze River Economic Belt in China. <i>Energy Policy</i> , 2020, 139, 111354.	8.8	69
38	Carbon emissions from fossil fuel consumption of Beijing in 2012. <i>Environmental Research Letters</i> , 2016, 11, 114028.	5.2	68
39	Chinese airline efficiency under CO2 emissions and flight delays: A stochastic network DEA model. <i>Energy Economics</i> , 2017, 68, 89-108.	12.1	68
40	Does the SO2 emissions trading scheme encourage green total factor productivity? An empirical assessment on China's cities. <i>Environmental Science and Pollution Research</i> , 2020, 27, 6375-6388.	5.3	68
41	Air pollution and tourism development: An interplay. <i>Annals of Tourism Research</i> , 2020, 85, 103032.	6.4	67
42	Influence of application of manganese ore in constructed wetlands on the mechanisms and improvement of nitrogen and phosphorus removal. <i>Ecotoxicology and Environmental Safety</i> , 2019, 170, 446-452.	6.0	66
43	The influences of incentive policy perceptions and consumer social attributes on battery electric vehicle purchase intentions. <i>Energy Policy</i> , 2021, 151, 112163.	8.8	64
44	Population ageing and deaths attributable to ambient PM2.5 pollution: a global analysis of economic cost. <i>Lancet Planetary Health</i> , The, 2021, 5, e356-e367.	11.4	63
45	The effect of China's pilot carbon emissions trading schemes on poverty alleviation: A quasi-natural experiment approach. <i>Journal of Environmental Management</i> , 2020, 271, 110973.	7.8	62
46	Carbon emissions and environmental management based on Big Data and Streaming Data: A bibliometric analysis. <i>Science of the Total Environment</i> , 2020, 733, 138984.	8.0	60
47	Sustainable supply chain management under big data: a bibliometric analysis. <i>Journal of Enterprise Information Management</i> , 2021, 34, 427-445.	7.5	59
48	Environmentally sensitive productivity growth and its decompositions in China: a metafrontier Malmquist-Luenberger productivity index approach. <i>Empirical Economics</i> , 2015, 49, 1017-1043.	3.0	57
49	Material flows and resource productivity in China, South Korea and Japan from 1970 to 2008: A transitional perspective. <i>Journal of Cleaner Production</i> , 2017, 141, 1164-1177.	9.3	57
50	The inequality of city-level energy efficiency for China. <i>Journal of Environmental Management</i> , 2020, 255, 109843.	7.8	57
51	A deterministic parametric metafrontier Luenberger indicator for measuring environmentally-sensitive productivity growth: A Korean fossil-fuel power case. <i>Energy Economics</i> , 2015, 51, 88-98.	12.1	56
52	Carbon emissions reductions and technology gaps in the world's factory, 1990-2012. <i>Energy Policy</i> , 2016, 91, 28-37.	8.8	55
53	Comparisons of CO2 emission performance between secondary and service industries in Yangtze River Delta cities. <i>Journal of Environmental Management</i> , 2019, 252, 109667.	7.8	52
54	Measuring sustainability performance for China: A sequential generalized directional distance function approach. <i>Economic Modelling</i> , 2014, 41, 392-397.	3.8	50

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55	Family firms, sustainable innovation and financing cost: Evidence from Chinese hi-tech small and medium-sized enterprises. <i>Technological Forecasting and Social Change</i> , 2019, 144, 499-511.	11.6	47
56	The shadow prices of CO ₂ and SO ₂ for Chinese Coal-fired Power Plants: A partial frontier approach. <i>Energy Economics</i> , 2020, 85, 104576.	12.1	47
57	Sustainable water use and water shadow price in China's urban industry. <i>Resources, Conservation and Recycling</i> , 2018, 128, 489-498.	10.8	46
58	The energy rebound effects across China's industrial sectors: An output distance function approach. <i>Applied Energy</i> , 2016, 184, 1165-1175.	10.1	44
59	Modeling the eco-efficiency of Chinese prefecture-level cities with regional heterogeneities: A comparative perspective. <i>Ecological Modelling</i> , 2019, 402, 1-17.	2.5	43
60	Renewable energy from pyrolysis using crops and agricultural residuals: An economic and environmental evaluation. <i>Energy</i> , 2015, 90, 1532-1544.	8.8	41
61	Farmers' preferences for livestock pollution control policy in China: a choice experiment method. <i>Journal of Cleaner Production</i> , 2016, 131, 572-582.	9.3	41
62	National research funding and energy efficiency: Evidence from the National Science Foundation of China. <i>Energy Policy</i> , 2018, 120, 335-346.	8.8	41
63	Analysis of the Factors Influencing Willingness to Pay and Payout Level for Ecological Environment Improvement of the Ganjiang River Basin. <i>Sustainability</i> , 2018, 10, 2149.	3.2	41
64	The drivers of China's regional green productivity, 1999-2013. <i>Resources, Conservation and Recycling</i> , 2020, 153, 104561.	10.8	41
65	An improved skyline based heuristic for the 2D strip packing problem and its efficient implementation. <i>Computers and Operations Research</i> , 2017, 80, 113-127.	4.0	40
66	CO ₂ emission reduction potential in China from combined effects of structural adjustment of economy and efficiency improvement. <i>Resources, Conservation and Recycling</i> , 2021, 174, 105760.	10.8	40
67	Does industry upgrade transfer pollution: Evidence from a natural experiment of Guangdong province in China. <i>Journal of Cleaner Production</i> , 2019, 229, 902-910.	9.3	39
68	Spatiotemporal Pattern and Driving Forces of Arable Land-Use Intensity in China: Toward Sustainable Land Management Using Emergy Analysis. <i>Sustainability</i> , 2014, 6, 3504-3520.	3.2	38
69	The Role of Agricultural Training on Fertilizer Use Knowledge: A Randomized Controlled Experiment. <i>Ecological Economics</i> , 2018, 148, 77-91.	5.7	38
70	China's retrofitting measures in coal-fired power plants bring significant mercury-related health benefits. <i>One Earth</i> , 2020, 3, 777-787.	6.8	37
71	Feasibility of a new-generation nighttime light data for estimating in-use steel stock of buildings and civil engineering infrastructures. <i>Resources, Conservation and Recycling</i> , 2017, 123, 11-23.	10.8	36
72	Innovation and energy productivity: An empirical study of the innovative city pilot policy in China. <i>Technological Forecasting and Social Change</i> , 2022, 176, 121430.	11.6	36

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73	Does industrial transfer policy mitigate carbon emissions? Evidence from a quasi-natural experiment in China. <i>Journal of Environmental Management</i> , 2022, 307, 114526.	7.8	36
74	Sustainability characteristics of China's Poyang Lake Eco-Economics Zone in the big data environment. <i>Journal of Cleaner Production</i> , 2017, 142, 642-653.	9.3	35
75	The effect of environmental policy on Chinese firm's green productivity and shadow price: A metafrontier input distance function approach. <i>Technological Forecasting and Social Change</i> , 2019, 144, 129-136.	11.6	35
76	Potential economic gains and emissions reduction on carbon emissions trading for China's large-scale thermal power plants. <i>Journal of Cleaner Production</i> , 2018, 204, 247-257.	9.3	34
77	Determinants of Farmers' Willingness to Pay and Its Level for Ecological Compensation of Poyang Lake Wetland, China: A Household-Level Survey. <i>Sustainability</i> , 2014, 6, 6714-6728.	3.2	33
78	Industrial Carbon Emissions of China's Regions: A Spatial Econometric Analysis. <i>Sustainability</i> , 2016, 8, 210.	3.2	28
79	The co-benefits of clean air and low-carbon policies on heavy metal emission reductions from coal-fired power plants in china. <i>Resources, Conservation and Recycling</i> , 2022, 181, 106258.	10.8	28
80	Metafrontier Environmental Efficiency for China's Regions: A Slack-Based Efficiency Measure. <i>Sustainability</i> , 2015, 7, 4004-4021.	3.2	27
81	On Modeling Environmental Production Characteristics: A Slacks-Based Measure for China's Poyang Lake Ecological Economics Zone. <i>Computational Economics</i> , 2015, 46, 389-404.	2.6	27
82	Is it feasible for China to enhance its air quality in terms of the efficiency and the regulatory cost of air pollution?. <i>Science of the Total Environment</i> , 2020, 709, 136149.	8.0	26
83	The effect of environmental regulation on the marginal abatement cost of industrial firms: Evidence from the 11th Five-Year Plan in China. <i>Energy Economics</i> , 2022, 112, 106147.	12.1	26
84	Is China's energy policy effective for power plants? Evidence from the 12th Five-Year Plan energy saving targets. <i>Energy Economics</i> , 2022, 112, 106143.	12.1	26
85	Measuring sustainability by Energy Efficiency Analysis for Korean Power Companies: A Sequential Slacks-Based Efficiency Measure. <i>Sustainability</i> , 2014, 6, 1414-1426.	3.2	24
86	Low-carbon technology diffusion in the decarbonization of the power sector: Policy implications. <i>Energy Policy</i> , 2018, 116, 344-356.	8.8	24
87	Heterogeneity of consumption-based carbon emissions and driving forces in Indian states. <i>Advances in Applied Energy</i> , 2021, 4, 100039.	13.2	24
88	The cost of low-carbon transition for China's coal-fired power plants: A quantile frontier approach. <i>Technological Forecasting and Social Change</i> , 2021, 169, 120809.	11.6	22
89	Temporal trends of the concentration and sources of secondary organic aerosols in PM2.5 in Shanghai during 2012 and 2018. <i>Atmospheric Environment</i> , 2021, 261, 118596.	4.1	22
90	Birnessite-coated sand filled vertical flow constructed wetlands improved nutrients removal in a cold climate. <i>RSC Advances</i> , 2019, 9, 35931-35938.	3.6	20

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91	Does major agriculture production zone have higher carbon efficiency and abatement cost under climate change mitigation?. <i>Ecological Indicators</i> , 2019, 105, 376-385.	6.3	20
92	Carbon emission reduction potentials under different polices in Chinese cities: A scenario-based analysis. <i>Journal of Cleaner Production</i> , 2017, 161, 1226-1236.	9.3	18
93	The Potential Gains from Carbon Emissions Trading in China's Industrial Sectors. <i>Computational Economics</i> , 2018, 52, 1175-1194.	2.6	18
94	Flood Footprint Assessment: A Multiregional Case of 2009 Central European Floods. <i>Risk Analysis</i> , 2020, 40, 1612-1631.	2.7	18
95	The driving forces behind the change in energy consumption in developing countries. <i>Environmental Research Letters</i> , 2021, 16, 054002.	5.2	18
96	Quantitative Ecological Risk Analysis by Evaluating China's Eco-Efficiency and Its Determinants. <i>Human and Ecological Risk Assessment (HERA)</i> , 2013, 19, 1324-1337.	3.4	17
97	The Efficiency and Its Determinants for China's Medical Care System: Some Policy Implications for Northeast Asia. <i>Sustainability</i> , 2015, 7, 14092-14111.	3.2	17
98	Sustainable water resource and endogenous economic growth. <i>Technological Forecasting and Social Change</i> , 2016, 112, 237-244.	11.6	17
99	Is the hydrogen production from biomass technology really sustainable? Answer by life cycle energy analysis. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 10507-10514.	7.1	17
100	Toward better environmental performance in hog production in China: Is intensification the answer?. <i>Ecological Indicators</i> , 2019, 105, 347-354.	6.3	17
101	The effect of environmental regulation on air pollution, productivity, and factor structure: a quasi-natural experiment evidence from China. <i>Environmental Science and Pollution Research</i> , 2020, 27, 20392-20409.	5.3	17
102	Does public subsidy promote sustainable innovation? The case of Chinese high-tech SMEs. <i>Environmental Science and Pollution Research</i> , 2021, 28, 53493-53506.	5.3	17
103	Mn oxides changed nitrogen removal process in constructed wetlands with a microbial electrolysis cell. <i>Science of the Total Environment</i> , 2021, 770, 144761.	8.0	17
104	The sources of regulated productivity in Chinese power plants: An estimation of the restricted cost function combined with DEA approach. <i>Energy Economics</i> , 2021, 100, 105318.	12.1	17
105	Life cycle assessment shows that retrofitting coal-fired power plants with fuel cells will substantially reduce greenhouse gas emissions. <i>One Earth</i> , 2022, 5, 392-402.	6.8	17
106	Scale of Production, Agglomeration and Agricultural Pollutant Treatment: Evidence From a Survey in China. <i>Ecological Economics</i> , 2017, 140, 30-45.	5.7	16
107	Strategic corporate sustainability performance of Chinese state-owned listed firms: A meta-frontier generalized directional distance function approach. <i>Social Science Journal</i> , 2015, 52, 300-310.	1.5	15
108	Energy efficiency and technology gap of enterprises in Guangdong province: A meta-frontier directional distance function analysis. <i>Journal of Cleaner Production</i> , 2019, 212, 1446-1453.	9.3	15

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109	How can government environmental policy affect the performance of SMEs: Chinese evidence. <i>Journal of Cleaner Production</i> , 2022, 336, 130308.	9.3	15
110	Spatiotemporal changes and fragmentation of forest land in Jiangxi Province, China. <i>Journal of Forest Economics</i> , 2017, 29, 4-13.	0.2	14
111	Regional Water Footprint Assessment: A Case Study of Leshan City. <i>Sustainability</i> , 2015, 7, 16532-16547.	3.2	13
112	Spatial analysis connects excess water pollution discharge, industrial production, and consumption at the sectoral level. <i>Npj Clean Water</i> , 2022, 5, .	8.0	13
113	Carbon footprint assessment for a local branded pure milk product: a lifecycle based approach. <i>Food Science and Technology</i> , 2018, 38, 98-105.	1.7	12
114	Can sustainable operations achieve economic benefit and energy saving for manufacturing industries in China?. <i>Annals of Operations Research</i> , 2020, 290, 145-168.	4.1	12
115	Assessing the role of technology in global manufacturing energy intensity change: A production-theoretical decomposition analysis. <i>Technological Forecasting and Social Change</i> , 2020, 160, 120245.	11.6	11
116	Price sensitivity and consumersâ€™ support for renewable energy in China. <i>Energy</i> , 2021, 222, 119862.	8.8	11
117	Does it matter who gives information? The impact of information sources on farmersâ€™ pesticide use in China. <i>Journal of Asian Economics</i> , 2021, 76, 101345.	2.7	11
118	Does Chinaâ€™s Pollution Levy Standards Reform Promote Green Growth?. <i>Sustainability</i> , 2019, 11, 6186.	3.2	10
119	Potential gains of trading CO2 emissions in the Chinese transportation sector. <i>Transportation Research, Part D: Transport and Environment</i> , 2021, 90, 102639.	6.8	10
120	Allocating environmental costs of China's rare earth production to global consumption. <i>Science of the Total Environment</i> , 2022, 831, 154934.	8.0	10
121	Introduction to the Special Issue on "the Sustainable Asia Conference 2014". <i>Sustainability</i> , 2015, 7, 1595-1602.	3.2	9
122	Determinants of Residentsâ€™ Willingness to Accept and Their Levels for Ecological Conservation in Ganjiang River Basin, China: An Empirical Analysis of Survey Data for 677 Households. <i>Sustainability</i> , 2019, 11, 6138.	3.2	9
123	Impact on China's CO ₂ emissions from COVID-19 pandemic. <i>Chinese Science Bulletin</i> , 2021, 66, 1912-1922.	0.7	9
124	Effectiveness of crop residuals in ethanol and pyrolysis-based electricity production: A stochastic analysis under uncertain climate impacts. <i>Energy Policy</i> , 2019, 125, 267-276.	8.8	8
125	Does energy research funding work? Evidence from the Natural Science Foundation of China using TEI method. <i>Technological Forecasting and Social Change</i> , 2019, 144, 369-380.	11.6	8
126	Sustainability of Trade Liberalization and Antidumping: Evidence from Mexico's Trade Liberalization toward China. <i>Sustainability</i> , 2015, 7, 11484-11503.	3.2	7

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127	Toward a Sustainable Low-Carbon China: A Review of the Special Issue of "Energy Economics and Management". Sustainability, 2016, 8, 823.	3.2	7
128	Sustainable endogenous growth model of multiple regions: Reconciling OR and economic perspectives. European Journal of Operational Research, 2018, 269, 218-226.	5.7	7
129	Improving rural women's health in China: cooking with clean energy. Environmental Science and Pollution Research, 2022, 29, 20906-20920.	5.3	7
130	Marginal abatement cost of pollutants for China: A nonparametric approach. Energy Sources, Part B: Economics, Planning and Policy, 2016, 11, 753-759.	3.4	6
131	Do green behaviors improve corporate value? An empirical study in China. Journal of Cleaner Production, 2020, 246, 119014.	9.3	6
132	What contributes to total factor productivity growth in the Chinese banking sector?. Technological and Economic Development of Economy, 2018, 24, 792-811.	4.6	4
133	Environmental Regulation and Worker Benefits: Evidence from City-Level Air Quality Standards in China. SSRN Electronic Journal, 0, , .	0.4	4
134	Integral representation of vega for American put options. Finance Research Letters, 2016, 19, 204-208.	6.7	1
135	A Review of Low-Carbon Transformation and Energy Innovation Issues in China. Sustainability, 2017, 9, 1238.	3.2	1
136	Air Pollution and Corporate Innovation: Chinese Evidence. SSRN Electronic Journal, 0, , .	0.4	0