

Wenjia Cai

List of Publications by Year in descending order

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Version: 2024-02-01

102
papers

9,739
citations

81900

39
h-index

38395

95
g-index

103
all docs

103
docs citations

103
times ranked

9233
citing authors

#	ARTICLE	IF	CITATIONS
1	Health and climate change: policy responses to protect public health. Lancet, The, 2015, 386, 1861-1914.	13.7	1,311
2	The 2020 report of The Lancet Countdown on health and climate change: responding to converging crises. Lancet, The, 2021, 397, 129-170.	13.7	1,030
3	The 2019 report of The Lancet Countdown on health and climate change: ensuring that the health of a child born today is not defined by a changing climate. Lancet, The, 2019, 394, 1836-1878.	13.7	905
4	The Lancet Countdown on health and climate change: from 25 years of inaction to a global transformation for public health. Lancet, The, 2018, 391, 581-630.	13.7	802
5	The 2021 report of the Lancet Countdown on health and climate change: code red for a healthy future. Lancet, The, 2021, 398, 1619-1662.	13.7	669
6	Managing nitrogen to restore water quality in China. Nature, 2019, 567, 516-520.	27.8	667
7	The 2018 report of the Lancet Countdown on health and climate change: shaping the health of nations for centuries to come. Lancet, The, 2018, 392, 2479-2514.	13.7	595
8	Provincial and gridded population projection for China under shared socioeconomic pathways from 2010 to 2100. Scientific Data, 2020, 7, 83.	5.3	198
9	Farmers' intention and decision to adapt to climate change: A case study in the Yom and Nan basins, Phichit province of Thailand. Journal of Cleaner Production, 2017, 143, 672-685.	9.3	169
10	Scenario analysis on CO2 emissions reduction potential in China's electricity sector. Energy Policy, 2007, 35, 6445-6456.	8.8	158
11	The Tsinghua "Lancet Commission on Healthy Cities in China: unlocking the power of cities for a healthy China. Lancet, The, 2018, 391, 2140-2184.	13.7	155
12	Comparison of CO2 emission scenarios and mitigation opportunities in China's five sectors in 2020. Energy Policy, 2008, 36, 1181-1194.	8.8	131
13	Industrial CO2 intensity, indigenous innovation and R&D spillovers in China's provinces. Applied Energy, 2014, 131, 117-127.	10.1	123
14	CO2 mitigation scenarios in China's road transport sector. Energy Conversion and Management, 2007, 48, 2110-2118.	9.2	122
15	Employment impacts of renewable energy policies in China: A decomposition analysis based on a CGE modeling framework. Applied Energy, 2018, 210, 256-267.	10.1	118
16	The relationships between household consumption activities and energy consumption in china " An input-output analysis from the lifestyle perspective. Applied Energy, 2017, 207, 520-532.	10.1	113
17	Green economy and green jobs: Myth or reality? The case of China's power generation sector. Energy, 2011, 36, 5994-6003.	8.8	109
18	The 2020 China report of the Lancet Countdown on health and climate change. Lancet Public Health, The, 2021, 6, e64-e81.	10.0	106

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19	Land use projections in China under global socioeconomic and emission scenarios: Utilizing a scenario-based land-use change assessment framework. <i>Global Environmental Change</i> , 2018, 50, 164-177.	7.8	103
20	The general equilibrium impacts of carbon tax policy in China: A multi-model comparison. <i>Energy Economics</i> , 2021, 99, 105284.	12.1	84
21	Short-Lived Buildings in China: Impacts on Water, Energy, and Carbon Emissions. <i>Environmental Science & Technology</i> , 2015, 49, 13921-13928.	10.0	83
22	Virtual water in interprovincial trade with implications for China's water policy. <i>Journal of Cleaner Production</i> , 2015, 87, 655-665.	9.3	83
23	Evaluating the use of BECCS and afforestation under China's carbon-neutral target for 2060. <i>Applied Energy</i> , 2021, 299, 117263.	10.1	80
24	The vulnerability of thermoelectric power generation to water scarcity in China: Current status and future scenarios for power planning and climate change. <i>Applied Energy</i> , 2016, 171, 444-455.	10.1	79
25	Incorporating critical material cycles into metal-energy nexus of China's 2050 renewable transition. <i>Applied Energy</i> , 2019, 253, 113612.	10.1	66
26	An index decomposition analysis of China's interregional embodied carbon flows. <i>Journal of Cleaner Production</i> , 2015, 88, 289-296.	9.3	64
27	Population ageing and deaths attributable to ambient PM _{2.5} pollution: a global analysis of economic cost. <i>Lancet Planetary Health</i> , The, 2021, 5, e356-e367.	11.4	63
28	Incorporating health co-benefits into technology pathways to achieve China's 2060 carbon neutrality goal: a modelling study. <i>Lancet Planetary Health</i> , The, 2021, 5, e808-e817.	11.4	62
29	How will sectoral coverage affect the efficiency of an emissions trading system? A CGE-based case study of China. <i>Applied Energy</i> , 2018, 227, 403-414.	10.1	56
30	Analyzing the penetration barriers of clean generation technologies in China's power sector using a multi-region optimization model. <i>Applied Energy</i> , 2017, 185, 1809-1820.	10.1	53
31	The Lancet Countdown on PM _{2.5} pollution-related health impacts of China's projected carbon dioxide mitigation in the electric power generation sector under the Paris Agreement: a modelling study. <i>Lancet Planetary Health</i> , The, 2018, 2, e151-e161.	11.4	53
32	Employment impacts of CDM projects in China's power sector. <i>Energy Policy</i> , 2013, 59, 481-491.	8.8	51
33	The value of a clear, long-term climate policy agenda: A case study of China's power sector using a multi-region optimization model. <i>Applied Energy</i> , 2014, 125, 276-288.	10.1	51
34	The economic impact of China's INDC: Distinguishing the roles of the renewable energy quota and the carbon market. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 81, 2955-2966.	16.4	49
35	Emissions trading systems and social equity: A CGE assessment for China. <i>Applied Energy</i> , 2019, 235, 1254-1265.	10.1	48
36	Exploring the impacts of biofuel expansion on land use change and food security based on a land explicit CGE model: A case study of China. <i>Applied Energy</i> , 2019, 236, 514-525.	10.1	46

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37	Impacts on quality-induced water scarcity: drivers of nitrogen-related water pollution transfer under globalization from 1995 to 2009. <i>Environmental Research Letters</i> , 2016, 11, 074017.	5.2	43
38	Achieving net-zero emissions in China's passenger transport sector through regionally tailored mitigation strategies. <i>Applied Energy</i> , 2021, 284, 116265.	10.1	41
39	The 2021 China report of the Lancet Countdown on health and climate change: seizing the window of opportunity. <i>Lancet Public Health</i> , The, 2021, 6, e932-e947.	10.0	41
40	Distributional employment impacts of renewable and new energy—A case study of China. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 39, 1155-1163.	16.4	39
41	Policies and Practices of Low Carbon City Development in China. <i>Energy and Environment</i> , 2013, 24, 1347-1372.	4.6	36
42	China's income gap and inequality under clean energy transformation: A CGE model assessment. <i>Journal of Cleaner Production</i> , 2020, 251, 119626.	9.3	36
43	Incorporating health co-benefits into regional carbon emission reduction policy making: A case study of China's power sector. <i>Applied Energy</i> , 2019, 253, 113498.	10.1	35
44	How the transitions in iron and steel and construction material industries impact China's CO ₂ emissions: Comprehensive analysis from an inter-sector linked perspective. <i>Applied Energy</i> , 2018, 211, 64-75.	10.1	34
45	Quantifying Baseline Emission Factors of Air Pollutants in China's Regional Power Grids. <i>Environmental Science & Technology</i> , 2013, 47, 3590-3597.	10.0	32
46	China's carbon mitigation strategies: Enough?. <i>Energy Policy</i> , 2014, 73, 47-56.	8.8	32
47	An analysis of the costs of energy saving and CO ₂ mitigation in rural households in China. <i>Journal of Cleaner Production</i> , 2017, 165, 734-745.	9.3	32
48	Simulating the impact of investment preference on low-carbon transition in power sector. <i>Applied Energy</i> , 2018, 217, 440-455.	10.1	30
49	Spatiotemporal dynamics of nitrogen dioxide pollution and urban development: Satellite observations over China, 2005–2016. <i>Resources, Conservation and Recycling</i> , 2019, 142, 59-68.	10.8	30
50	Revisiting CO ₂ mitigation potential and costs in China's electricity sector. <i>Energy Policy</i> , 2010, 38, 4209-4213.	8.8	28
51	Unit-level cost-benefit analysis for coal power plants retrofitted with biomass co-firing at a national level by combined GIS and life cycle assessment. <i>Applied Energy</i> , 2021, 285, 116494.	10.1	28
52	Impacts on water consumption of power sector in major emitting economies under INDC and longer term mitigation scenarios: An input-output based hybrid approach. <i>Applied Energy</i> , 2016, 184, 26-39.	10.1	27
53	Spatial distribution of usable biomass feedstock and technical bioenergy potential in China. <i>GCB Bioenergy</i> , 2020, 12, 54-70.	5.6	27
54	Carbon Footprints and Embodied Carbon Flows Analysis for China's Eight Regions: A New Perspective for Mitigation Solutions. <i>Sustainability</i> , 2015, 7, 10098-10114.	3.2	25

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55	The heterogeneity in energy consumption patterns and home appliance purchasing preferences across urban households in China. <i>Energy</i> , 2022, 253, 124079.	8.8	25
56	Spatiotemporal variation of mortality burden attributable to heatwaves in China, 1979â€“2020. <i>Science Bulletin</i> , 2022, 67, 1340-1344.	9.0	25
57	Sectoral analysis for international technology development and transfer: Cases of coal-fired power generation, cement and aluminium in China. <i>Energy Policy</i> , 2009, 37, 2283-2291.	8.8	22
58	Carbon pricing policy, revenue recycling schemes, and income inequality: A multi-regional dynamic CGE assessment for China. <i>Resources, Conservation and Recycling</i> , 2022, 181, 106246.	10.8	22
59	Tracking the impacts of climate change on human health via indicators: lessons from the Lancet Countdown. <i>BMC Public Health</i> , 2022, 22, 663.	2.9	20
60	Incorporating health impacts into a differentiated pollution tax rate system: A case study in the Beijing-Tianjin-Hebei region in China. <i>Journal of Environmental Management</i> , 2019, 250, 109527.	7.8	19
61	Socioeconomic impacts of household participation in emission trading scheme: A Computable General Equilibrium-based case study. <i>Applied Energy</i> , 2021, 288, 116647.	10.1	19
62	A fine-resolution estimation of the biomass resource potential across China from 2020 to 2100. <i>Resources, Conservation and Recycling</i> , 2022, 176, 105944.	10.8	19
63	Grand Challenges Cannot Be Treated in Isolation. <i>One Earth</i> , 2019, 1, 24-26.	6.8	18
64	Assessment of the potential and distribution of an energy crop at 1-km resolution from 2010 to 2100 in China â€“ The case of sweet sorghum. <i>Applied Energy</i> , 2019, 239, 395-407.	10.1	18
65	Incorporating Health Cobenefits in Decision-Making for the Decommissioning of Coal-Fired Power Plants in China. <i>Environmental Science & Technology</i> , 2020, 54, 13935-13943.	10.0	18
66	Assessment of the economic impact of heat-related labor productivity loss: a systematic review. <i>Climatic Change</i> , 2021, 167, 1.	3.6	18
67	From concept to action: a united, holistic and One Health approach to respond to the climate change crisis. <i>Infectious Diseases of Poverty</i> , 2022, 11, 17.	3.7	18
68	The land footprint of the global food trade: Perspectives from a case study of soybeans. <i>Land Use Policy</i> , 2021, 111, 105764.	5.6	17
69	Retrofitting coal-fired power plants with biomass co-firing and carbon capture and storage for net zero carbon emission: A plant-by-plant assessment framework. <i>GCB Bioenergy</i> , 2021, 13, 143-160.	5.6	16
70	Evaluating the effectiveness of labor protection policy on occupational injuries caused by extreme heat in a large subtropical city of China. <i>Environmental Research</i> , 2020, 186, 109532.	7.5	15
71	China's investments in renewable energy through the belt and road initiative stimulated local economy and employment: A case study of Pakistan. <i>Science of the Total Environment</i> , 2022, 835, 155308.	8.0	14
72	Impact of Household Consumption Activities on Energy Consumption in Chinaâ€”Evidence from the Lifestyle Perspective and Input-output Analysis. <i>Energy Procedia</i> , 2017, 105, 3384-3390.	1.8	13

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73	Unexpected water impacts of energy-saving measures in the iron and steel sector: Tradeoffs or synergies?. Applied Energy, 2017, 205, 1119-1127.	10.1	13
74	ECONOMIC IMPACTS OF CLIMATE CHANGE AND AIR POLLUTION IN CHINA THROUGH HEALTH AND LABOR SUPPLY PERSPECTIVE: AN INTEGRATED ASSESSMENT MODEL ANALYSIS. Climate Change Economics, 2020, 11, 2041001.	5.0	12
75	Five tips for China to realize its co-targets of climate mitigation and Sustainable Development Goals (SDGs). Geography and Sustainability, 2020, 1, 245-249.	4.3	12
76	Regional Allocation of CO2 Intensity Reduction Targets Based on Cluster Analysis. Advances in Climate Change Research, 2012, 3, 220-228.	5.1	10
77	Economic Impacts of Wind and Solar Photovoltaic Power Development in China. Energy Procedia, 2017, 105, 3440-3448.	1.8	10
78	A Multi-Period Multi-Region Optimization Model of China's Power Sector Considering Synergetic CO2 and Air Pollutants Control. Procedia Environmental Sciences, 2013, 18, 397-403.	1.4	9
79	Catchment-level water stress risk of coal power transition in China under 2 [°] C/1.5 [°] C targets. Applied Energy, 2021, 294, 116986.	10.1	9
80	Sectoral crediting mechanism: How far China has to go. Energy Policy, 2012, 48, 770-778.	8.8	8
81	Co-Benefits of CO2 Mitigation for NOX Emission Reduction: A Research Based on the DICE Model. Sustainability, 2018, 10, 1109.	3.2	8
82	Water conservation implications for decarbonizing non-electric energy supply: A hybrid life-cycle analysis. Journal of Environmental Management, 2018, 219, 208-217.	7.8	7
83	Key drivers of the rebound trend of China's CO ₂ emissions. Environmental Research Letters, 2020, 15, 104049.	5.2	6
84	Simulation of Climate Negotiation Strategies between China and the U.S. Based on Game Theory. Advances in Climate Change Research, 2014, 5, 34-40.	5.1	5
85	Clean Generation Technologies in Chinese Power Sector: Penetration Thresholds and Supporting Policies. Energy Procedia, 2015, 75, 2807-2812.	1.8	4
86	Corporate preferences for domestic policy instruments under a sectoral market mechanism: a case study of Shanxi Province in China. Journal of Cleaner Production, 2015, 108, 613-624.	9.3	4
87	Achieving China's INDC: Biomass Development and Competition for Land. Energy Procedia, 2017, 105, 3521-3526.	1.8	4
88	How Shale Gas will Shape China's Future? an Evaluation Based on Dynamic Energy-CGE Model. Energy Procedia, 2017, 105, 3349-3354.	1.8	4
89	The nature and scale of the response to climate change will determine the human health for centuries to come in China. Chinese Science Bulletin, 2020, 65, 12-17.	0.7	4
90	Using Sectoral Approach as Complement to the INDC Framework: An Analysis Based on the CGE Model. Energy Procedia, 2017, 105, 3433-3439.	1.8	3

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91	Climate and health: An evolving relationship. Med, 2021, 2, 344-347.	4.4	3
92	Optimizing the Power Generation Structure for Low Carbon Development Target in China: A Comparison Study of Endogenous and Exogenous Technology Improvements. Energy Procedia, 2019, 158, 4055-4060.	1.8	2
93	Evaluating environmental tax rates for power plants in BTH area based on marginal damage estimation: An Integrated Assessment. Energy Procedia, 2019, 158, 3923-3929.	1.8	2
94	A rule-based method to downscale provincial level power sector projection results to plant level. MethodsX, 2021, 8, 101448.	1.6	2
95	CO2 Emission Reduction Efforts Made by China's Electricity Sector and the International Comparison. , 2009, , .		1
96	Assessing the Influence of Shale Gas Boom on China's Power Sector and Environmental Policy by Modeling. Advanced Materials Research, 2014, 962-965, 1762-1766.	0.3	1
97	Estimating economic impact of heat on China's labor productivity: new evidence from a CGE model. Occupational and Environmental Medicine, 2019, 76, A69.1-A69.	2.8	1
98	Reflections on weather and climate research. Nature Reviews Earth & Environment, 2021, 2, 9-14.	29.7	1
99	Policies and Practices of Low Carbon City Development in China. SSRN Electronic Journal, 0, , .	0.4	1
100	The carbon dioxide emission reduction potential in China's road transport sector in 2020. WIT Transactions on the Built Environment, 2006, , .	0.0	1
101	The inclusion of health in major global reports on climate change and biodiversity. BMJ Global Health, 2022, 7, e008731.	4.7	1
102	An Analysis of the Costs of Energy Saving and CO2 Mitigation in Rural Households in China. SSRN Electronic Journal, 0, , .	0.4	0