Wenjia Cai

List of Publications by Year
in descending order

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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	A fine-resolution estimation of the biomass resource potential across China from 2020 to 2100. Resources, Conservation and Recycling, 2022, 176, 105944.	10.8	19
2	From concept to action: a united, holistic and One Health approach to respond to the climate change crisis. Infectious Diseases of Poverty, 2022, 11, 17.	3.7	18
3	Tracking the impacts of climate change on human health via indicators: lessons from the Lancet Countdown. BMC Public Health, 2022, 22, 663.	2.9	20
4	Carbon pricing policy, revenue recycling schemes, and income inequality: A multi-regional dynamic CGE assessment for China. Resources, Conservation and Recycling, 2022, 181, 106246.	10.8	22
5	China's investments in renewable energy through the belt and road initiative stimulated local economy and employment: A case study of Pakistan. Science of the Total Environment, 2022, 835, 155308.	8.0	14
6	The heterogeneity in energy consumption patterns and home appliance purchasing preferences across urban households in China. Energy, 2022, 253, 124079.	8.8	25
7	Spatiotemporal variation of mortality burden attributable to heatwaves in China, 1979â€“2020. Science Bulletin, 2022, 67, 1340-1344.	9.0	25
8	The inclusion of health in major global reports on climate change and biodiversity. BMJ Global Health, 2022, 7, e008731.	4.7	1
9	Retrofitting coalâ€fired power plants with biomass coâ€firing and carbon capture and storage for net zero carbon emission: A plantâ€byâ€plant assessment framework. GCB Bioenergy, 2021, 13, 143-160.	5.6	16
10	The 2020 China report of the Lancet Countdown on health and climate change. Lancet Public Health, The, 2021, 6, e64-e81.	10.0	106
11	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
12	Achieving net-zero emissions in Chinaâ€™s passenger transport sector through regionally tailored mitigation strategies. Applied Energy, 2021, 284, 116265.	10.1	41
13	A rule-based method to downscale provincial level power sector projection results to plant level. MethodsX, 2021, 8, 101448.	1.6	2
14	Reflections on weather and climate research. Nature Reviews Earth & Environment, 2021, 2, 9-14.	29.7	1
15	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. Applied Energy, 2021, 285, 116494.	10.1	28
16	Climate and health: An evolving relationship. Med, 2021, 2, 344-347.	4.4	3
17	Socioeconomic impacts of household participation in emission trading scheme: A Computable General Equilibrium-based case study. Applied Energy, 2021, 288, 116647.	10.1	19
18	Population ageing and deaths attributable to ambient PM2Â·5 pollution: a global analysis of economic cost. Lancet Planetary Health, The, 2021, 5, e356-e367.	11.4	63

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19	Catchment-level water stress risk of coal power transition in China under 2â„ƒ/1.5â„ƒ targets. Applied Energy, 2021, 294, 116986.	10.1	9
20	The general equilibrium impacts of carbon tax policy in China: A multi-model comparison. Energy Economics, 2021, 99, 105284.	12.1	84
21	Assessment of the economic impact of heat-related labor productivity loss: a systematic review. Climatic Change, 2021, 167, 1.	3.6	18
22	The land footprint of the global food trade: Perspectives from a case study of soybeans. Land Use Policy, 2021, 111, 105764.	5.6	17
23	Evaluating the use of BECCS and afforestation under Chinaâ€™s carbon-neutral target for 2060. Applied Energy, 2021, 299, 117263.	10.1	80
24	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
25	The 2021 China report of the Lancet Countdown on health and climate change: seizing the window of opportunity. Lancet Public Health, The, 2021, 6, e932-e947.	10.0	41
26	Incorporating health co-benefits into technology pathways to achieve China's 2060 carbon neutrality goal: a modelling study. Lancet Planetary Health, The, 2021, 5, e808-e817.	11.4	62
27	Chinaâ€™s income gap and inequality under clean energy transformation: A CGE model assessment. Journal of Cleaner Production, 2020, 251, 119626.	9.3	36
28	Incorporating Health Cobenefits in Decision-Making for the Decommissioning of Coal-Fired Power Plants in China. Environmental Science & Technology, 2020, 54, 13935-13943.	10.0	18
29	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
30	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
31	Provincial and gridded population projection for China under shared socioeconomic pathways from 2010 to 2100. Scientific Data, 2020, 7, 83.	5.3	198
32	Key drivers of the rebound trend of Chinaâ€™s CO₂ emissions. Environmental Research Letters, 2020, 15, 104049.	5.2	6
33	Spatial distribution of usable biomass feedstock and technical bioenergy potential in China. GCB Bioenergy, 2020, 12, 54-70.	5.6	27
34	Evaluating the effectiveness of labor protection policy on occupational injuries caused by extreme heat in a large subtropical city of China. Environmental Research, 2020, 186, 109532.	7.5	15
35	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
36	Incorporating health co-benefits into regional carbon emission reduction policy making: A case study of Chinaâ€™s power sector. Applied Energy, 2019, 253, 113498.	10.1	35

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37	Incorporating critical material cycles into metal-energy nexus of Chinaâ€™s 2050 renewable transition. Applied Energy, 2019, 253, 113612.	10.1	66
38	Incorporating health impacts into a differentiated pollution tax rate system: A case study in the Beijing-Tianjin-Hebei region in China. Journal of Environmental Management, 2019, 250, 109527.	7.8	19
39	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
40	Grand Challenges Cannot Be Treated in Isolation. One Earth, 2019, 1, 24-26.	6.8	18
41	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
42	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
43	Managing nitrogen to restore water quality in China. Nature, 2019, 567, 516-520.	27.8	667
44	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. Applied Energy, 2019, 239, 395-407.	10.1	18
45	O7E.4â€…Estimating economic impact of heat on chinaâ€™s labor productivity: new evidence from a CGE model. Occupational and Environmental Medicine, 2019, 76, A69.1-A69.	2.8	1
46	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. Applied Energy, 2019, 236, 514-525.	10.1	46
47	Emissions trading systems and social equity: A CGE assessment for China. Applied Energy, 2019, 235, 1254-1265.	10.1	48
48	Spatiotemporal dynamics of nitrogen dioxide pollution and urban development: Satellite observations over China, 2005â€“2016. Resources, Conservation and Recycling, 2019, 142, 59-68.	10.8	30
49	Land use projections in China under global socioeconomic and emission scenarios: Utilizing a scenario-based land-use change assessment framework. Global Environmental Change, 2018, 50, 164-177.	7.8	103
50	The Tsinghuaâ€“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
51	The Lancet Countdown on PM 2Â·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. Lancet Planetary Health, The, 2018, 2, e151-e161.	11.4	53
52	Simulating the impact of investment preference on low-carbon transition in power sector. Applied Energy, 2018, 217, 440-455.	10.1	30
53	The economic impact of China's INDC: Distinguishing the roles of the renewable energy quota and the carbon market. Renewable and Sustainable Energy Reviews, 2018, 81, 2955-2966.	16.4	49
54	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

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55	How will sectoral coverage affect the efficiency of an emissions trading system? A CGE-based case study of China. Applied Energy, 2018, 227, 403-414.	10.1	56
56	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
57	How the transitions in iron and steel and construction material industries impact Chinaâ€™s CO2 emissions: Comprehensive analysis from an inter-sector linked perspective. Applied Energy, 2018, 211, 64-75.	10.1	34
58	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
59	Co-Benefits of CO2 Mitigation for NOX Emission Reduction: A Research Based on the DICE Model. Sustainability, 2018, 10, 1109.	3.2	8
60	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
61	Analyzing the penetration barriers of clean generation technologies in Chinaâ€™s power sector using a multi-region optimization model. Applied Energy, 2017, 185, 1809-1820.	10.1	53
62	The relationships between household consumption activities and energy consumption in chinaâ€” An input-output analysis from the lifestyle perspective. Applied Energy, 2017, 207, 520-532.	10.1	113
63	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
64	Impact of Household Consumption Activities on Energy Consumption in Chinaâ€”Evidence from the Lifestyle Perspective and Input-output Analysis. Energy Procedia, 2017, 105, 3384-3390.	1.8	13
65	Economic Impacts of Wind and Solar Photovoltaic Power Development in China. Energy Procedia, 2017, 105, 3440-3448.	1.8	10
66	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
67	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
68	Achieving China's INDC: Biomass Development and Competition for Land. Energy Procedia, 2017, 105, 3521-3526.	1.8	4
69	An analysis of the costs of energy saving and CO 2 mitigation in rural households in China. Journal of Cleaner Production, 2017, 165, 734-745.	9.3	32
70	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
71	Impacts on water consumption of power sector in major emitting economies under INDC and longer term mitigation scenarios: An input-output based hybrid approach. Applied Energy, 2016, 184, 26-39.	10.1	27
72	Impacts on quality-induced water scarcity: drivers of nitrogen-related water pollution transfer under globalization from 1995 to 2009. Environmental Research Letters, 2016, 11, 074017.	5.2	43

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73	The vulnerability of thermoelectric power generation to water scarcity in China: Current status and future scenarios for power planning and climate change. Applied Energy, 2016, 171, 444-455.	10.1	79
74	Clean Generation Technologies in Chinese Power Sector: Penetration Thresholds and Supporting Policies. Energy Procedia, 2015, 75, 2807-2812.	1.8	4
75	Carbon Footprints and Embodied Carbon Flows Analysis for Chinaâ€™s Eight Regions: A New Perspective for Mitigation Solutions. Sustainability, 2015, 7, 10098-10114.	3.2	25
76	Short-Lived Buildings in China: Impacts on Water, Energy, and Carbon Emissions. Environmental Science & Technology, 2015, 49, 13921-13928.	10.0	83
77	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
78	Health and climate change: policy responses to protect public health. Lancet, The, 2015, 386, 1861-1914.	13.7	1,311
79	Virtual water in interprovincial trade with implications for China's water policy. Journal of Cleaner Production, 2015, 87, 655-665.	9.3	83
80	An index decomposition analysis of China's interregional embodied carbon flows. Journal of Cleaner Production, 2015, 88, 289-296.	9.3	64
81	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
82	Assessing the Influence of Shale Gas Boom on Chinaâ€™s Power Sector and Environmental Policy by Modeling. Advanced Materials Research, 2014, 962-965, 1762-1766.	0.3	1
83	China×³s carbon mitigation strategies: Enough?. Energy Policy, 2014, 73, 47-56.	8.8	32
84	Distributional employment impacts of renewable and new energyâ€“A case study of China. Renewable and Sustainable Energy Reviews, 2014, 39, 1155-1163.	16.4	39
85	Industrial CO 2 intensity, indigenous innovation and R&D spillovers in Chinaâ€™s provinces. Applied Energy, 2014, 131, 117-127.	10.1	123
86	The value of a clear, long-term climate policy agenda: A case study of Chinaâ€™s power sector using a multi-region optimization model. Applied Energy, 2014, 125, 276-288.	10.1	51
87	Employment impacts of CDM projects in China's power sector. Energy Policy, 2013, 59, 481-491.	8.8	51
88	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
89	Quantifying Baseline Emission Factors of Air Pollutants in Chinaâ€™s Regional Power Grids. Environmental Science & Technology, 2013, 47, 3590-3597.	10.0	32
90	Policies and Practices of Low Carbon City Development in China. Energy and Environment, 2013, 24, 1347-1372.	4.6	36

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91	Regional Allocation of CO2 Intensity Reduction Targets Based on Cluster Analysis. Advances in Climate Change Research, 2012, 3, 220-228.	5.1	10
92	Sectoral crediting mechanism: How far China has to go. Energy Policy, 2012, 48, 770-778.	8.8	8
93	Green economy and green jobs: Myth or reality? The case of Chinaâ€™s power generation sector. Energy, 2011, 36, 5994-6003.	8.8	109
94	Revisiting CO2 mitigation potential and costs in Chinaâ€™s electricity sector. Energy Policy, 2010, 38, 4209-4213.	8.8	28
95	Sectoral analysis for international technology development and transfer: Cases of coal-fired power generation, cement and aluminium in China. Energy Policy, 2009, 37, 2283-2291.	8.8	22
96	CO2 Emission Reduction Efforts Made by China's Electricity Sector and the International Comparison. , 2009, , .		1
97	Comparison of CO2 emission scenarios and mitigation opportunities in China's five sectors in 2020. Energy Policy, 2008, 36, 1181-1194.	8.8	131
98	CO2 mitigation scenarios in Chinaâ€™s road transport sector. Energy Conversion and Management, 2007, 48, 2110-2118.	9.2	122
99	Scenario analysis on CO2 emissions reduction potential in China's electricity sector. Energy Policy, 2007, 35, 6445-6456.	8.8	158
100	The carbon dioxide emission reduction potential in Chinaâ€™s road transport sector in 2020. WIT Transactions on the Built Environment, 2006, , .	0.0	1
101	An Analysis of the Costs of Energy Saving and CO2 Mitigation in Rural Households in China. SSRN Electronic Journal, 0, , .	0.4	0
102	Policies and Practices of Low Carbon City Development in China. SSRN Electronic Journal, 0, , .	0.4	1