

Zhu Liu

List of Publications by Year in descending order

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Version: 2024-02-01

121
papers

20,588
citations

16791

66
h-index

20625

120
g-index

146
all docs

146
docs citations

146
times ranked

16668
citing authors

#	ARTICLE	IF	CITATIONS
1	Near-real-time global gridded daily CO ₂ emissions. <i>Innovation(China)</i> , 2022, 3, 100182.	5.2	24
2	Reduced health burden and economic benefits of cleaner fuel usage from household energy consumption across rural and urban China. <i>Environmental Research Letters</i> , 2022, 17, 014039.	2.2	7
3	Impact of Lockdowns and Winter Temperatures on Natural Gas Consumption in Europe. <i>Earth's Future</i> , 2022, 10, .	2.4	10
4	Challenges and opportunities for carbon neutrality in China. <i>Nature Reviews Earth & Environment</i> , 2022, 3, 141-155.	12.2	587
5	Global monthly gridded atmospheric carbon dioxide concentrations under the historical and future scenarios. <i>Scientific Data</i> , 2022, 9, 83.	2.4	46
6	Emissions rebound from the COVID-19 pandemic. <i>Nature Climate Change</i> , 2022, 12, 412-414.	8.1	41
7	Global fossil carbon emissions rebound near pre-COVID-19 levels. <i>Environmental Research Letters</i> , 2022, 17, 031001.	2.2	42
8	Near-Real-Time Carbon Emission Accounting Technology Toward Carbon Neutrality. <i>Engineering</i> , 2022, 14, 44-51.	3.2	38
9	Monitoring global carbon emissions in 2021. <i>Nature Reviews Earth & Environment</i> , 2022, 3, 217-219.	12.2	215
10	Global to local impacts on atmospheric CO ₂ from the COVID-19 lockdown, biosphere and weather variabilities. <i>Environmental Research Letters</i> , 2022, 17, 015003.	2.2	10
11	Comparing national greenhouse gas budgets reported in UNFCCC inventories against atmospheric inversions. <i>Earth System Science Data</i> , 2022, 14, 1639-1675.	3.7	58
12	Quantitative analysis of CO ₂ uptake by alkaline solid wastes in China. <i>Journal of Cleaner Production</i> , 2022, 363, 132454.	4.6	2
13	Global patterns of daily CO ₂ emissions reductions in the first year of COVID-19. <i>Nature Geoscience</i> , 2022, 15, 615-620.	5.4	46
14	Global and local carbon footprints of city of Hong Kong and Macao from 2000 to 2015. <i>Resources, Conservation and Recycling</i> , 2021, 164, 105167.	5.3	20
15	The 2020 China report of the Lancet Countdown on health and climate change. <i>Lancet Public Health</i> , The, 2021, 6, e64-e81.	4.7	106
16	Drivers of GHG emissions from dietary transition patterns in China: Supply versus demand options. <i>Journal of Industrial Ecology</i> , 2021, 25, 707-719.	2.8	6
17	Global CO ₂ uptake by cement from 1930 to 2019. <i>Earth System Science Data</i> , 2021, 13, 1791-1805.	3.7	35
18	Transition in air pollution, disease burden and health cost in China: A comparative study of long-term and short-term exposure. <i>Environmental Pollution</i> , 2021, 277, 116770.	3.7	52

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19	Estimates of daily ground-level NO ₂ concentrations in China based on Random Forest model integrated K-means. <i>Advances in Applied Energy</i> , 2021, 2, 100017.	6.6	19
20	Global COVID-19 lockdown highlights humans as both threats and custodians of the environment. <i>Biological Conservation</i> , 2021, 263, 109175.	1.9	96
21	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.	5.1	63
22	How do weather and climate change impact the COVID-19 pandemic? Evidence from the Chinese mainland. <i>Environmental Research Letters</i> , 2021, 16, 014026.	2.2	8
23	Impact on China's CO ₂ emissions from COVID-19 pandemic. <i>Chinese Science Bulletin</i> , 2021, 66, 1912-1922.	0.4	9
24	Regional impacts of COVID-19 on carbon dioxide detected worldwide from space. <i>Science Advances</i> , 2021, 7, eabf9415.	4.7	33
25	Societal shifts due to COVID-19 reveal large-scale complexities and feedbacks between atmospheric chemistry and climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	42
26	Near-real-time monitoring of global CO ₂ emissions reveals the effects of the COVID-19 pandemic. <i>Nature Communications</i> , 2020, 11, 5172.	5.8	420
27	Five tips for China to realize its co-targets of climate mitigation and Sustainable Development Goals (SDGs). <i>Geography and Sustainability</i> , 2020, 1, 245-249.	1.9	12
28	Exploring the trade-offs between electric heating policy and carbon mitigation in China. <i>Nature Communications</i> , 2020, 11, 6054.	5.8	198
29	Carbon Monitor, a near-real-time daily dataset of global CO ₂ emission from fossil fuel and cement production. <i>Scientific Data</i> , 2020, 7, 392.	2.4	115
30	Enlarging Regional Disparities in Energy Intensity within China. <i>Earth's Future</i> , 2020, 8, e2020EF001572.	2.4	14
31	Weakening aerosol direct radiative effects mitigate climate penalty on Chinese air quality. <i>Nature Climate Change</i> , 2020, 10, 845-850.	8.1	32
32	Embodied carbon emissions in China-US trade. <i>Science China Earth Sciences</i> , 2020, 63, 1577-1586.	2.3	32
33	Local Anomalies in the Column-Averaged Dry Air Mole Fractions of Carbon Dioxide Across the Globe During the First Months of the Coronavirus Recession. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090244.	1.5	31
34	Economic development and converging household carbon footprints in China. <i>Nature Sustainability</i> , 2020, 3, 529-537.	11.5	224
35	Buildings as a global carbon sink. <i>Nature Sustainability</i> , 2020, 3, 269-276.	11.5	419
36	Physical and virtual carbon metabolism of global cities. <i>Nature Communications</i> , 2020, 11, 182.	5.8	62

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37	Evaluating China's fossil-fuel CO ₂ emissions from a comprehensive dataset of nine inventories. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 11371-11385.	1.9	36
38	Global Carbon Budget 2020. <i>Earth System Science Data</i> , 2020, 12, 3269-3340.	3.7	1,477
39	The cascade of global trade to large climate forcing over the Tibetan Plateau glaciers. <i>Nature Communications</i> , 2019, 10, 3281.	5.8	28
40	Loss of profit in the hotel industry of the United States due to climate change. <i>Environmental Research Letters</i> , 2019, 14, 084022.	2.2	11
41	Rapid improvement of PM _{2.5} pollution and associated health benefits in China during 2013–2017. <i>Science China Earth Sciences</i> , 2019, 62, 1847-1856.	2.3	146
42	Impacts of climate change on future air quality and human health in China. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 17193-17200.	3.3	219
43	China's non-fossil fuel CO ₂ emissions from industrial processes. <i>Applied Energy</i> , 2019, 254, 113537.	5.1	43
44	Inequality of household consumption and air pollution-related deaths in China. <i>Nature Communications</i> , 2019, 10, 4337.	5.8	114
45	The Slowdown in Global Air-Pollutant Emission Growth and Driving Factors. <i>One Earth</i> , 2019, 1, 138-148.	3.6	91
46	Key challenges for China's carbon emissions trading program. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2019, 10, e599.	3.6	15
47	Direct and embodied energy-water-carbon nexus at an inter-regional scale. <i>Applied Energy</i> , 2019, 251, 113401.	5.1	80
48	Dynamic Carbon Emission Linkages Across Boundaries. <i>Earth's Future</i> , 2019, 7, 197-209.	2.4	29
49	Global urban expansion offsets climate-driven increases in terrestrial net primary productivity. <i>Nature Communications</i> , 2019, 10, 5558.	5.8	198
50	The efficient, the intensive, and the productive: Insights from urban Kaya scaling. <i>Applied Energy</i> , 2019, 236, 155-162.	5.1	27
51	Cities: The core of climate change mitigation. <i>Journal of Cleaner Production</i> , 2019, 207, 582-589.	4.6	193
52	An emissions-socioeconomic inventory of Chinese cities. <i>Scientific Data</i> , 2019, 6, 190027.	2.4	107
53	Origin and Radiative Forcing of Black Carbon Aerosol: Production and Consumption Perspectives. <i>Environmental Science & Technology</i> , 2018, 52, 6380-6389.	4.6	34
54	The spatiotemporal features of greenhouse gases emissions from biomass burning in China from 2000 to 2012. <i>Journal of Cleaner Production</i> , 2018, 181, 801-808.	4.6	36

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55	China CO2 emission accounts 1997-2015. <i>Scientific Data</i> , 2018, 5, 170201.	2.4	824
56	Interregional carbon flows of China. <i>Applied Energy</i> , 2018, 227, 342-352.	5.1	87
57	Exploring the impacts of regional unbalanced carbon tax on CO2 emissions and industrial competitiveness in Liaoning province of China. <i>Energy Policy</i> , 2018, 113, 9-19.	4.2	61
58	Industry-wide corporate fraud: The truth behind the Volkswagen scandal. <i>Journal of Cleaner Production</i> , 2018, 172, 3167-3175.	4.6	35
59	Global energy growth is outpacing decarbonization. <i>Environmental Research Letters</i> , 2018, 13, 120401.	2.2	188
60	Consumption-based greenhouse gas emissions accounting with capital stock change highlights dynamics of fast-developing countries. <i>Nature Communications</i> , 2018, 9, 3581.	5.8	87
61	The rise of South-South trade and its effect on global CO2 emissions. <i>Nature Communications</i> , 2018, 9, 1871.	5.8	328
62	Structural decline in China's CO2 emissions through transitions in industry and energy systems. <i>Nature Geoscience</i> , 2018, 11, 551-555.	5.4	340
63	City-level climate change mitigation in China. <i>Science Advances</i> , 2018, 4, eaaq0390.	4.7	287
64	Spatiotemporal Changes of China's Carbon Emissions. <i>Geophysical Research Letters</i> , 2018, 45, 8536-8546.	1.5	15
65	Rapid growth of petroleum coke consumption and its related emissions in China. <i>Applied Energy</i> , 2018, 226, 494-502.	5.1	60
66	Global Carbon Budget 2018. <i>Earth System Science Data</i> , 2018, 10, 2141-2194.	3.7	1,167
67	Methodology and applications of city level CO2 emission accounts in China. <i>Journal of Cleaner Production</i> , 2017, 161, 1215-1225.	4.6	351
68	Pattern changes in determinants of Chinese emissions. <i>Environmental Research Letters</i> , 2017, 12, 074003.	2.2	217
69	Transboundary health impacts of transported global air pollution and international trade. <i>Nature</i> , 2017, 543, 705-709.	13.7	737
70	Unequal household carbon footprints in China. <i>Nature Climate Change</i> , 2017, 7, 75-80.	8.1	345
71	Carbon footprint of China's belt and road. <i>Science</i> , 2017, 357, 1107-1107.	6.0	134
72	Socioeconomic impact assessment of China's CO2 emissions peak prior to 2030. <i>Journal of Cleaner Production</i> , 2017, 142, 2227-2236.	4.6	346

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73	Chinese CO ₂ emission flows have reversed since the global financial crisis. <i>Nature Communications</i> , 2017, 8, 1712.	5.8	678
74	Carbon Emissions in China. Springer Theses, 2016, , .	0.0	13
75	Performance Assessment and Outlook of China's Emission-Trading Scheme. <i>Engineering</i> , 2016, 2, 398-401.	3.2	21
76	Globalization and pollution: tele-connecting local primary PM _{2.5} emissions to global consumption. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2016, 472, 20160380.	1.0	77
77	Environment-economy tradeoff for Beijing-Tianjin-Hebei's exports. <i>Applied Energy</i> , 2016, 184, 926-935.	5.1	58
78	New provincial CO ₂ emission inventories in China based on apparent energy consumption data and updated emission factors. <i>Applied Energy</i> , 2016, 184, 742-750.	5.1	394
79	Global climate forcing of aerosols embodied in international trade. <i>Nature Geoscience</i> , 2016, 9, 790-794.	5.4	79
80	Substantial global carbon uptake by cement carbonation. <i>Nature Geoscience</i> , 2016, 9, 880-883.	5.4	355
81	Energy saving potential of natural ventilation in China: The impact of ambient air pollution. <i>Applied Energy</i> , 2016, 179, 660-668.	5.1	225
82	Alpha-1-antitrypsin interacts with gp41 to block HIV-1 entry into CD4+ T lymphocytes. <i>BMC Microbiology</i> , 2016, 16, 172.	1.3	21
83	Consumption-based emission accounting for Chinese cities. <i>Applied Energy</i> , 2016, 184, 1073-1081.	5.1	519
84	Driving forces of Chinese primary air pollution emissions: an index decomposition analysis. <i>Journal of Cleaner Production</i> , 2016, 133, 136-144.	4.6	168
85	CO ₂ emissions from China's lime industry. <i>Applied Energy</i> , 2016, 166, 245-252.	5.1	115
86	Carbon emissions dynamics, efficiency gains, and technological innovation in China's industrial sectors. <i>Energy</i> , 2016, 99, 10-19.	4.5	152
87	National carbon emissions from the industry process: Production of glass, soda ash, ammonia, calcium carbide and alumina. <i>Applied Energy</i> , 2016, 166, 239-244.	5.1	59
88	Targeted opportunities to address the climate-trade dilemma in China. <i>Nature Climate Change</i> , 2016, 6, 201-206.	8.1	206
89	Driving Factors of China's Carbon Emissions. Springer Theses, 2016, , 75-83.	0.0	1
90	Carbon Emissions from Regions and Sectors. Springer Theses, 2016, , 45-73.	0.0	0

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91	China's National, Regional, and City's Carbon Emission Inventories. Springer Theses, 2016, , 13-43.	0.0	0
92	Carbon Emissions Embodied in Trade. Springer Theses, 2016, , 85-97.	0.0	0
93	Assessment of China's virtual air pollution transport embodied in trade by using a consumption-based emission inventory. Atmospheric Chemistry and Physics, 2015, 15, 5443-5456.	1.9	137
94	Corrigendum to "Assessment of China's virtual air pollution transport embodied in trade by using a consumption-based emission inventory" published in Atmos. Chem. Phys., 15, 5443-5456, 2015. Atmospheric Chemistry and Physics, 2015, 15, 6815-6815.	1.9	11
95	Climate policy: Steps to China's carbon peak. Nature, 2015, 522, 279-281.	13.7	255
96	Evaluating the water footprint of the energy supply of Liaoning Province, China: A regional input-output analysis approach. Energy Policy, 2015, 78, 148-157.	4.2	68
97	Four system boundaries for carbon accounts. Ecological Modelling, 2015, 318, 118-125.	1.2	62
98	Make raw emissions data public in China. Nature, 2015, 526, 640-640.	13.7	6
99	Reduced carbon emission estimates from fossil fuel combustion and cement production in China. Nature, 2015, 524, 335-338.	13.7	1,185
100	The socioeconomic drivers of China's primary PM _{2.5} emissions. Environmental Research Letters, 2014, 9, 024010.	2.2	350
101	Water-Carbon Trade-off in China's Coal Power Industry. Environmental Science & Technology, 2014, 48, 11082-11089.	4.6	81
102	Decoupling Analysis and Socioeconomic Drivers of Environmental Pressure in China. Environmental Science & Technology, 2014, 48, 1103-1113.	4.6	122
103	Determinants of stagnating carbon intensity in China. Nature Climate Change, 2014, 4, 1017-1023.	8.1	157
104	Lifting China's Water Spell. Environmental Science & Technology, 2014, 48, 11048-11056.	4.6	105
105	Consumption-based CO ₂ accounting of China's megacities: The case of Beijing, Tianjin, Shanghai and Chongqing. Ecological Indicators, 2014, 47, 26-31.	2.6	236
106	A low-carbon road map for China. Nature, 2013, 500, 143-145.	13.7	357
107	Tie carbon emissions to consumers. Nature, 2013, 493, 304-305.	13.7	4
108	Promoting low-carbon city through industrial symbiosis: A case in China by applying HPIMO model. Energy Policy, 2013, 61, 864-873.	4.2	91

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109	Carbon dioxide emission drivers for a typical metropolis using input-output structural decomposition analysis. <i>Energy Policy</i> , 2013, 58, 312-318.	4.2	170
110	CO2 emissions from China's power sector at the provincial level: Consumption versus production perspectives. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 19, 164-172.	8.2	118
111	Waste oil derived biofuels in China bring brightness for global GHG mitigation. <i>Bioresource Technology</i> , 2013, 131, 139-145.	4.8	55
112	Socioeconomic Drivers of Mercury Emissions in China from 1992 to 2007. <i>Environmental Science & Technology</i> , 2013, 47, 3234-3240.	4.6	101
113	Exploring driving factors of energy-related CO2 emissions in Chinese provinces: A case of Liaoning. <i>Energy Policy</i> , 2013, 60, 820-826.	4.2	120
114	Outsourcing CO ₂ within China. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 11654-11659.	3.3	533
115	Uncovering China's greenhouse gas emission from regional and sectoral perspectives. <i>Energy</i> , 2012, 45, 1059-1068.	4.5	196
116	Embodied energy use in China's industrial sectors. <i>Energy Policy</i> , 2012, 49, 751-758.	4.2	173
117	The gigatonne gap in China's carbon dioxide inventories. <i>Nature Climate Change</i> , 2012, 2, 672-675.	8.1	477
118	Features, trajectories and driving forces for energy-related GHG emissions from Chinese mega cities: The case of Beijing, Tianjin, Shanghai and Chongqing. <i>Energy</i> , 2012, 37, 245-254.	4.5	185
119	Is China producing too many PhDs?. <i>Nature</i> , 2011, 474, 450-450.	13.7	1
120	Contributing to local policy making on GHG emission reduction through inventorying and attribution: A case study of Shenyang, China. <i>Energy Policy</i> , 2011, 39, 5999-6010.	4.2	105
121	Lower Cambrian phosphatized <i>Punctatus</i> from southern Shaanxi and their ontogeny sequence. <i>Science Bulletin</i> , 2007, 52, 2820-2828.	1.7	20