

Gang Liu

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

85
papers

2,869
citations

28
h-index

52
g-index

92
ext. papers

4,032
ext. citations

11.6
avg, IF

5.83
L-index

#	Paper	IF	Citations
85	Missing Food, Missing Data? A Critical Review of Global Food Losses and Food Waste Data. <i>Environmental Science & Technology</i> , 2017 , 51, 6618-6633	10.3	254
84	Carbon emissions of infrastructure development. <i>Environmental Science & Technology</i> , 2013 , 47, 11739-46	10.3	238
83	Characterizing the generation and flows of construction and demolition waste in China. <i>Construction and Building Materials</i> , 2017 , 136, 405-413	6.7	186
82	Stock dynamics and emission pathways of the global aluminium cycle. <i>Nature Climate Change</i> , 2013 , 3, 338-342	21.4	144
81	Addressing sustainability in the aluminum industry: a critical review of life cycle assessments. <i>Journal of Cleaner Production</i> , 2012 , 35, 108-117	10.3	125
80	The weight of unfinished plate: A survey based characterization of restaurant food waste in Chinese cities. <i>Waste Management</i> , 2017 , 66, 3-12	8.6	117
79	Food waste accounting methodologies: Challenges, opportunities, and further advancements. <i>Global Food Security</i> , 2019 , 20, 93-100	8.3	88
78	Centennial evolution of aluminum in-use stocks on our aluminized planet. <i>Environmental Science & Technology</i> , 2013 , 47, 4882-8	10.3	87
77	Waste electrical and electronic equipment (WEEE) in Denmark: Flows, quantities and management. <i>Resources, Conservation and Recycling</i> , 2017 , 123, 85-92	11.9	81
76	Implications of China's foreign waste ban on the global circular economy. <i>Resources, Conservation and Recycling</i> , 2019 , 144, 252-255	11.9	81
75	A review of methods and data to determine raw material criticality. <i>Resources, Conservation and Recycling</i> , 2020 , 155, 104617	11.9	72
74	Mapping the global journey of anthropogenic aluminum: a trade-linked multilevel material flow analysis. <i>Environmental Science & Technology</i> , 2013 , 47, 11873-81	10.3	70
73	Taking Stock of Built Environment Stock Studies: Progress and Prospects. <i>Environmental Science & Technology</i> , 2019 , 53, 8499-8515	10.3	65
72	Unearthing potentials for decarbonizing the U.S. aluminum cycle. <i>Environmental Science & Technology</i> , 2011 , 45, 9515-22	10.3	65
71	Rural household energy consumption and its impacts on eco-environment in Tibet: Taking Taktse county as an example. <i>Renewable and Sustainable Energy Reviews</i> , 2008 , 12, 1890-1908	16.2	64
70	Construction debris becomes growing concern of growing cities. <i>Waste Management</i> , 2019 , 83, 1-5	8.6	57
69	Circular economy enables sustainable consumption and production in multi-level supply chain system. <i>Resources, Conservation and Recycling</i> , 2020 , 154, 104601	11.9	48

68	Horeca food waste and its ecological footprint in Lhasa, Tibet, China. <i>Resources, Conservation and Recycling</i> , 2018 , 136, 1-8	11.9	46
67	Elaborating the History of Our Cementing Societies: An in-Use Stock Perspective. <i>Environmental Science & Technology</i> , 2017 , 51, 11468-11475	10.3	45
66	Development potentials and policy options of biomass in China. <i>Environmental Management</i> , 2010 , 46, 539-54	3.1	39
65	Plate Waste in School Lunch Programs in Beijing, China. <i>Sustainability</i> , 2016 , 8, 1288	3.6	38
64	Economic Growth and the Evolution of Material Cycles: An Analytical Framework Integrating Material Flow and Stock Indicators. <i>Ecological Economics</i> , 2017 , 140, 265-274	5.6	33
63	Uncovering the Spatiotemporal Dynamics of Urban Infrastructure Development: A High Spatial Resolution Material Stock and Flow Analysis. <i>Environmental Science & Technology</i> , 2018 , 52, 12122-12132	10.3	33
62	The sponge effect and carbon emission mitigation potentials of the global cement cycle. <i>Nature Communications</i> , 2020 , 11, 3777	17.4	31
61	End-of-life resource recovery from emerging electronic products [A case study of robotic vacuum cleaners. <i>Journal of Cleaner Production</i> , 2016 , 137, 652-666	10.3	30
60	Characteristics, influencing factors, and environmental effects of plate waste at university canteens in Beijing, China. <i>Resources, Conservation and Recycling</i> , 2019 , 149, 151-159	11.9	29
59	Waste and material flow analysis in the end-of-life wind energy system. <i>Resources, Conservation and Recycling</i> , 2019 , 145, 199-207	11.9	29
58	Rural household food waste characteristics and driving factors in China. <i>Resources, Conservation and Recycling</i> , 2021 , 164, 105209	11.9	28
57	Product and Metal Stocks Accumulation of China's Megacities: Patterns, Drivers, and Implications. <i>Environmental Science & Technology</i> , 2019 , 53, 4128-4139	10.3	27
56	Developing an Urban Resource Cadaster for Circular Economy: A Case of Odense, Denmark. <i>Environmental Science & Technology</i> , 2020 , 54, 4675-4685	10.3	27
55	Characterizing the role of built environment stocks in human development and emission growth. <i>Resources, Conservation and Recycling</i> , 2017 , 123, 67-72	11.9	27
54	Towards a low carbon transition of urban public transport in megacities: A case study of Shenzhen, China. <i>Resources, Conservation and Recycling</i> , 2018 , 134, 149-155	11.9	26
53	Assessment of secondary aluminum reserves of nations. <i>Resources, Conservation and Recycling</i> , 2017 , 126, 34-41	11.9	26
52	Unravelling the mystery of Chinese building lifetime: A calibration and verification based on dynamic material flow analysis. <i>Applied Energy</i> , 2019 , 238, 442-452	10.7	25
51	Recovering the Few twin - Analysis of secondary neodymium sources and recycling potentials in Europe. <i>Resources, Conservation and Recycling</i> , 2019 , 142, 143-152	11.9	25

50	Resourcing the Fairytale Country with Wind Power: A Dynamic Material Flow Analysis. <i>Environmental Science & Technology</i> , 2019 , 53, 11313-11322	10.3	23
49	China's food loss and waste embodies increasing environmental impacts. <i>Nature Food</i> , 2021 , 2, 519-528	14.4	23
48	Anaerobic digestion based waste-to-energy technologies can halve the climate impact of China's fast-growing food waste by 2040. <i>Journal of Cleaner Production</i> , 2020 , 277, 123490	10.3	22
47	Scenario analysis of China's aluminum cycle reveals the coming scrap age and the end of primary aluminum boom. <i>Journal of Cleaner Production</i> , 2019 , 226, 793-804	10.3	21
46	Watch more, waste more? A stock-driven dynamic material flow analysis of metals and plastics in TV sets in China. <i>Journal of Cleaner Production</i> , 2018 , 187, 730-739	10.3	21
45	Food security: Curb China's rising food wastage. <i>Nature</i> , 2013 , 498, 170	50.4	21
44	Efficiency and Carbon Footprint of the German Meat Supply Chain. <i>Environmental Science & Technology</i> , 2019 , 53, 5133-5142	10.3	20
43	Integrating Dynamic Material Flow Analysis and Computable General Equilibrium Models for Both Mass and Monetary Balances in Prospective Modeling: A Case for the Chinese Building Sector. <i>Environmental Science & Technology</i> , 2019 , 53, 224-233	10.3	18
42	Platinum Demand and Potential Bottlenecks in the Global Green Transition: A Dynamic Material Flow Analysis. <i>Environmental Science & Technology</i> , 2019 , 53, 11541-11551	10.3	17
41	Socioeconomic drivers of water use in China during 2002-2017. <i>Resources, Conservation and Recycling</i> , 2020 , 154, 104636	11.9	17
40	High-Resolution Mapping of the Urban Built Environment Stocks in Beijing. <i>Environmental Science & Technology</i> , 2020 , 54, 5345-5355	10.3	17
39	Nighttime Light Images Reveal Spatial-Temporal Dynamics of Global Anthropogenic Resources Accumulation above Ground. <i>Environmental Science & Technology</i> , 2018 , 52, 11520-11527	10.3	16
38	Mitigation of carbon dioxide by accelerated sequestration in concrete debris. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 117, 109495	16.2	14
37	Characterizing the generation and environmental impacts of subway-related excavated soil and rock in China. <i>Journal of Cleaner Production</i> , 2020 , 248, 119242	10.3	14
36	Low-carbon pathways for the booming express delivery sector in China. <i>Nature Communications</i> , 2021 , 12, 450	17.4	14
35	High-Resolution Maps of Material Stocks in Buildings and Infrastructures in Austria and Germany. <i>Environmental Science & Technology</i> , 2021 , 55, 3368-3379	10.3	14
34	Understanding the material efficiency of the wind power sector in China: A spatial-temporal assessment. <i>Resources, Conservation and Recycling</i> , 2020 , 155, 104668	11.9	12
33	Developing countries: Growing threat of urban waste dumps. <i>Nature</i> , 2017 , 546, 599	50.4	12

32	Material stocks and flows of power infrastructure development in China. <i>Resources, Conservation and Recycling</i> , 2020 , 160, 104906	11.9	11
31	Characterizing the stocks, flows, and carbon impact of dockless sharing bikes in China. <i>Resources, Conservation and Recycling</i> , 2020 , 162, 105038	11.9	11
30	Oil security revisited: An assessment based on complex network analysis. <i>Energy</i> , 2020 , 194, 116793	7.9	11
29	Chilling Prospect: Climate Change Effects of Mismanaged Refrigerants in China. <i>Environmental Science & Technology</i> , 2018 , 52, 6350-6356	10.3	10
28	Modeling waste generation and end-of-life management of wind power development in Guangdong, China until 2050. <i>Resources, Conservation and Recycling</i> , 2021 , 169, 105533	11.9	10
27	China's rare earth dominance: The myths and the truths from an industrial ecology perspective. <i>Resources, Conservation and Recycling</i> , 2018 , 132, 139-140	11.9	9
26	The living, the dead, and the obsolete: A characterization of lifetime and stock of ICT products in Denmark. <i>Resources, Conservation and Recycling</i> , 2021 , 164, 105117	11.9	9
25	Battery technology and recycling alone will not save the electric mobility transition from future cobalt shortages.. <i>Nature Communications</i> , 2022 , 13, 1341	17.4	8
24	Purification and characterization of a novel neutral α -glucanase and an alkaline α -glucanase from an alkaliphilic Bacillus isolate. <i>World Journal of Microbiology and Biotechnology</i> , 2008 , 24, 149-155	4.4	7
23	Multi-parametric assessment of biological stability of drinking water produced from groundwater: Reverse osmosis vs. conventional treatment. <i>Water Research</i> , 2020 , 186, 116317	12.5	7
22	Enhancing water and land efficiency in agricultural production and trade between Central Asia and China. <i>Science of the Total Environment</i> , 2021 , 780, 146584	10.2	6
21	Introduction to global food losses and food waste 2019 , 1-31		5
20	Food delivery waste in Wuhan, China: Patterns, drivers, and implications. <i>Resources, Conservation and Recycling</i> , 2022 , 177, 105960	11.9	5
19	Uncovering residents and restaurants' attitude and willingness toward effective food waste management: A case study of Macau. <i>Waste Management</i> , 2021 , 130, 107-116	8.6	4
18	China Factor: Exploring the Byproduct and Host Metal Dynamics for Gallium-Aluminum in a Global Green Transition.. <i>Environmental Science & Technology</i> , 2022 ,	10.3	3
17	Drivers and barriers towards circular economy in the building sector: Stakeholder interviews and analysis of five european countries policies and practices. <i>Journal of Cleaner Production</i> , 2022 , 336, 130395	10.3	3
16	Stock dynamics and emission pathways of the global aluminum cycle 2013 , 178-178		3
15	Building stock dynamics and the impact of construction bubble and bust on employment in China. <i>Journal of Industrial Ecology</i> ,	7.2	3

14	Stock Dynamics and Emission Pathways of the Global Aluminum Cycle 2013 , 177-178		2
13	Integration of LCC and LCA results to higher system levels : The German meat and EU tomato cases 2019 ,		2
12	Quantifying supply chain food loss in China with primary data: A large-scale, field-survey based analysis for staple food, vegetables, and fruits. <i>Resources, Conservation and Recycling</i> , 2022 , 177, 106006 ^{11.9}		2
11	Mapping the EU tomato supply chain from farm to fork for greenhouse gas emission mitigation strategies. <i>Journal of Industrial Ecology</i> , 2021 , 25, 377-389	7.2	2
10	Comparing the bacterial growth potential of ultra-low nutrient drinking water assessed by growth tests based on flow cytometric intact cell count versus adenosine triphosphate. <i>Water Research</i> , 2021 , 203, 117506	12.5	2
9	International trade reduces global phosphorus demand but intensifies the imbalance in local consumption.. <i>Science of the Total Environment</i> , 2022 , 154484	10.2	2
8	Environment: Invest in renewable energy in Tibet. <i>Nature</i> , 2014 , 514, 35	50.4	1
7	Uncovering spatiotemporal evolution of titanium in China: A dynamic material flow analysis. <i>Resources, Conservation and Recycling</i> , 2022 , 180, 106166	11.9	1
6	Modeling potential impact of COVID-19 pandemic on global electric vehicle supply chain.. <i>IScience</i> , 2022 , 103903	6.1	1
5	Material Hide-and-Seek: Looking for the Resource Savings Due to International Trade of Food Products. <i>Earth's Future</i> , 2021 , 9, e2020EF001861	7.9	1
4	Extending urban stocks and flows analysis to urban greenhouse gas emission accounting: A case of Odense, Denmark. <i>Journal of Industrial Ecology</i> , 2021 , 25, 961-978	7.2	1
3	Porous 3D printed concrete beams show an environmental promise: a cradle-to-grave comparative life cycle assessment. <i>Clean Technologies and Environmental Policy</i> ,	4.3	1
2	Driving force analysis for food loss changes in Cameroon. <i>Journal of Cleaner Production</i> , 2021 , 278, 123892.3	0.3	0
1	Spatiotemporally explicit pathway and material-energy-emission nexus of offshore wind energy development in China up to the year 2060. <i>Resources, Conservation and Recycling</i> , 2022 , 183, 106349	11.9	0