

Gang Liu

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/6038693/gang-liu-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	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
84	Uncovering spatiotemporal evolution of titanium in China: A dynamic material flow analysis. <i>Resources, Conservation and Recycling</i> , 2022 , 180, 106166	11.9	1
83	Modeling potential impact of COVID-19 pandemic on global electric vehicle supply chain.. <i>IScience</i> , 2022 , 103903	6.1	1
82	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
81	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
80	Food delivery waste in Wuhan, China: Patterns, drivers, and implications. <i>Resources, Conservation and Recycling</i> , 2022 , 177, 105960	11.9	5
79	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
78	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
77	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
76	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
75	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
74	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
73	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
72	Rural household food waste characteristics and driving factors in China. <i>Resources, Conservation and Recycling</i> , 2021 , 164, 105209	11.9	28
71	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
70	Driving force analysis for food loss changes in Cameroon. <i>Journal of Cleaner Production</i> , 2021 , 278, 123892	10.3	0
69	Low-carbon pathways for the booming express delivery sector in China. <i>Nature Communications</i> , 2021 , 12, 450	17.4	14

68	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
67	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
66	China's food loss and waste embodies increasing environmental impacts. <i>Nature Food</i> , 2021 , 2, 519-528	14.4	23
65	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
64	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
63	Material stocks and flows of power infrastructure development in China. <i>Resources, Conservation and Recycling</i> , 2020 , 160, 104906	11.9	11
62	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
61	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
60	A review of methods and data to determine raw material criticality. <i>Resources, Conservation and Recycling</i> , 2020 , 155, 104617	11.9	72
59	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
58	Mitigation of carbon dioxide by accelerated sequestration in concrete debris. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 117, 109495	16.2	14
57	Oil security revisited: An assessment based on complex network analysis. <i>Energy</i> , 2020 , 194, 116793	7.9	11
56	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
55	Socioeconomic drivers of water use in China during 2002-2017. <i>Resources, Conservation and Recycling</i> , 2020 , 154, 104636	11.9	17
54	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
53	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
52	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
51	The sponge effect and carbon emission mitigation potentials of the global cement cycle. <i>Nature Communications</i> , 2020 , 11, 3777	17.4	31

50	High-Resolution Mapping of the Urban Built Environment Stocks in Beijing. <i>Environmental Science & Technology</i> , 2020 , 54, 5345-5355	10.3	17
49	Resourcing the Fairytale Country with Wind Power: A Dynamic Material Flow Analysis. <i>Environmental Science & Technology</i> , 2019 , 53, 11313-11322	10.3	23
48	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
47	Food waste accounting methodologies: Challenges, opportunities, and further advancements. <i>Global Food Security</i> , 2019 , 20, 93-100	8.3	88
46	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
45	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
44	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
43	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
42	Efficiency and Carbon Footprint of the German Meat Supply Chain. <i>Environmental Science & Technology</i> , 2019 , 53, 5133-5142	10.3	20
41	Introduction to global food losses and food waste 2019 , 1-31		5
40	Taking Stock of Built Environment Stock Studies: Progress and Prospects. <i>Environmental Science & Technology</i> , 2019 , 53, 8499-8515	10.3	65
39	Integration of LCC and LCA results to higher system levels : The German meat and EU tomato cases 2019 ,		2
38	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
37	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
36	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
35	Construction debris becomes growing concern of growing cities. <i>Waste Management</i> , 2019 , 83, 1-5	8.6	57
34	Recovering the New twin—Analysis of secondary neodymium sources and recycling potentials in Europe. <i>Resources, Conservation and Recycling</i> , 2019 , 142, 143-152	11.9	25
33	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

32	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
31	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
30	Horeca food waste and its ecological footprint in Lhasa, Tibet, China. <i>Resources, Conservation and Recycling</i> , 2018 , 136, 1-8	11.9	46
29	Chilling Prospect: Climate Change Effects of Mismanaged Refrigerants in China. <i>Environmental Science & Technology</i> , 2018 , 52, 6350-6356	10.3	10
28	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
27	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
26	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
25	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
24	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
23	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
22	Elaborating the History of Our Cementing Societies: An in-Use Stock Perspective. <i>Environmental Science & Technology</i> , 2017 , 51, 11468-11475	10.3	45
21	Assessment of secondary aluminum reserves of nations. <i>Resources, Conservation and Recycling</i> , 2017 , 126, 34-41	11.9	26
20	Developing countries: Growing threat of urban waste dumps. <i>Nature</i> , 2017 , 546, 599	50.4	12
19	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
18	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
17	Plate Waste in School Lunch Programs in Beijing, China. <i>Sustainability</i> , 2016 , 8, 1288	3.6	38
16	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
15	Environment: Invest in renewable energy in Tibet. <i>Nature</i> , 2014 , 514, 35	50.4	1

14	Stock Dynamics and Emission Pathways of the Global Aluminum Cycle 2013 , 177-178		2
13	Carbon emissions of infrastructure development. <i>Environmental Science & Technology</i> , 2013 , 47, 11739-46	10.3	238
12	Food security: Curb China's rising food wastage. <i>Nature</i> , 2013 , 498, 170	50.4	21
11	Stock dynamics and emission pathways of the global aluminium cycle. <i>Nature Climate Change</i> , 2013 , 3, 338-342	21.4	144
10	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
9	Centennial evolution of aluminum in-use stocks on our aluminized planet. <i>Environmental Science & Technology</i> , 2013 , 47, 4882-8	10.3	87
8	Stock dynamics and emission pathways of the global aluminum cycle 2013 , 178-178		3
7	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
6	Unearthing potentials for decarbonizing the U.S. aluminum cycle. <i>Environmental Science & Technology</i> , 2011 , 45, 9515-22	10.3	65
5	Development potentials and policy options of biomass in China. <i>Environmental Management</i> , 2010 , 46, 539-54	3.1	39
4	Purification and characterization of a novel neutral α -glucanase and an alkaline α -glucanase from an alkaliphilic <i>Bacillus</i> isolate. <i>World Journal of Microbiology and Biotechnology</i> , 2008 , 24, 149-155	4.4	7
3	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
2	Building stock dynamics and the impact of construction bubble and bust on employment in China. <i>Journal of Industrial Ecology</i> ,	7.2	3
1	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