

Xianlai Zeng

List of Publications by Year in Descending Order

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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.

74
papers

4,203
citations

32
h-index

64
g-index

82
ext. papers

5,015
ext. citations

8.5
avg, IF

6.29
L-index

#	Paper	IF	Citations
74	The role of China's aluminum recycling on sustainable resource and emission pathways. <i>Resources Policy</i> , 2022 , 76, 102552	7.2	2
73	Reshaping global policies for circular economy 2022 , 100003		1
72	Emerging anthropogenic circularity science: principles, practices, and challenges. <i>IScience</i> , 2021 , 24, 102237	7.7	9
71	Uncovering the evolution of tin use in the United States and its implications. <i>Frontiers of Environmental Science and Engineering</i> , 2021 , 15, 1	5.8	1
70	Quantifying material flow of oily sludge in China and its implications. <i>Journal of Environmental Management</i> , 2021 , 287, 112115	7.9	4
69	Estimation of waste outflows for multiple product types in China from 2010-2050. <i>Scientific Data</i> , 2021 , 8, 15	8.2	2
68	Mapping Recyclability of Industrial Waste for Anthropogenic Circularity: A Circular Economy Approach. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 11927-11936	8.3	7
67	Mapping anthropogenic mineral generation in China and its implications for a circular economy. <i>Nature Communications</i> , 2020 , 11, 1544	17.4	31
66	Eco-districts in France: What tools to ensure goals achievement?. <i>Science China Earth Sciences</i> , 2020 , 63, 865-874	4.6	2
65	A method to assess national metal criticality: the environment as a foremost measurement. <i>Humanities and Social Sciences Communications</i> , 2020 , 7,	2.8	4
64	Mineral processing simulation based-environmental life cycle assessment for rare earth project development: A case study on the Songwe Hill project. <i>Journal of Environmental Management</i> , 2019 , 249, 109353	7.9	14
63	Environmental optimisation of mine scheduling through life cycle assessment integration. <i>Resources, Conservation and Recycling</i> , 2019 , 142, 267-276	11.9	17
62	Temporally explicit life cycle assessment as an environmental performance decision making tool in rare earth project development. <i>Minerals Engineering</i> , 2019 , 135, 64-73	4.9	15
61	Comprehensive characterization on Ga (In)-bearing dust generated from semiconductor industry for effective recovery of critical metals. <i>Waste Management</i> , 2019 , 89, 212-223	8.6	8
60	Forecasting the temporal stock generation and recycling potential of metals towards a sustainable future: The case of gallium in China. <i>Science of the Total Environment</i> , 2019 , 689, 332-340	10.2	13
59	Recycling printed circuit boards 2019 , 311-325		3
58	WEEE management in China 2019 , 521-540		1

57	Examining the Temporal Demand and Sustainability of Copper in China. <i>Environmental Science & Technology</i> , 2019 , 53, 13812-13821	10.3	13
56	Estimating the Evolution of Urban Mining Resources in Hong Kong, Up to the Year 2050. <i>Environmental Science & Technology</i> , 2019 , 53, 1394-1403	10.3	21
55	Urban Mining of E-Waste is Becoming More Cost-Effective Than Virgin Mining. <i>Environmental Science & Technology</i> , 2018 , 52, 4835-4841	10.3	155
54	Dynamic Stocks and Flows Analysis of Bisphenol A (BPA) in China: 2000-2014. <i>Environmental Science & Technology</i> , 2018 , 52, 3706-3715	10.3	30
53	Measuring the sustainability of tin in China. <i>Science of the Total Environment</i> , 2018 , 635, 1351-1359	10.2	17
52	Modelling the correlations of e-waste quantity with economic increase. <i>Science of the Total Environment</i> , 2018 , 613-614, 46-53	10.2	74
51	Chilling Prospect: Climate Change Effects of Mismanaged Refrigerants in China. <i>Environmental Science & Technology</i> , 2018 , 52, 6350-6356	10.3	10
50	China E-waste management: Struggling for future success. <i>Resources, Conservation and Recycling</i> , 2018 , 139, 48-49	11.9	13
49	Uncovering the evolution of substance flow analysis of nickel in China. <i>Resources, Conservation and Recycling</i> , 2018 , 135, 210-215	11.9	24
48	Examining the sustainability of China's nickel supply: 1950-2050. <i>Resources, Conservation and Recycling</i> , 2018 , 139, 188-193	11.9	26
47	Designing and examining e-waste recycling process: methodology and case studies. <i>Environmental Technology (United Kingdom)</i> , 2017 , 38, 652-660	2.6	24
46	Evaluating waste printed circuit boards recycling: Opportunities and challenges, a mini review. <i>Waste Management and Research</i> , 2017 , 35, 346-356	4	41
45	Remanufacturing strategies: A solution for WEEE problem. <i>Journal of Cleaner Production</i> , 2017 , 149, 126-136	10.3	73
44	Characterizing the transboundary movements of UEEE/WEEE: Is Macau a regional transfer center?. <i>Journal of Cleaner Production</i> , 2017 , 157, 243-253	10.3	9
43	A simplified method to evaluate the recycling potential of e-waste. <i>Journal of Cleaner Production</i> , 2017 , 168, 1518-1524	10.3	21
42	Examining environmental management of e-waste: China's experience and lessons. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 72, 1076-1082	16.2	105
41	Innovating e-waste management: From macroscopic to microscopic scales. <i>Science of the Total Environment</i> , 2017 , 575, 1-5	10.2	130
40	Examining the evolution of metals utilized in printed circuit boards. <i>Environmental Technology (United Kingdom)</i> , 2017 , 38, 1696-1701	2.6	19

39	An Innovative Method for the Extraction of Metal from Waste Cathode Ray Tubes through a Mechanochemical Process Using 2-[Bis(carboxymethyl)amino]acetic Acid Chelating Reagent. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 4704-4709	8.3	17
38	Assessing the sustainability of lead utilization in China. <i>Journal of Environmental Management</i> , 2016 , 183, 275-279	7.9	12
37	Comparative Examining and Analysis of E-waste Recycling in Typical Developing and Developed Countries. <i>Procedia Environmental Sciences</i> , 2016 , 35, 676-680		22
36	Measuring the recyclability of e-waste: an innovative method and its implications. <i>Journal of Cleaner Production</i> , 2016 , 131, 156-162	10.3	84
35	Environmental pollution of electronic waste recycling in India: A critical review. <i>Environmental Pollution</i> , 2016 , 211, 259-70	9.3	198
34	Relationship between e-waste recycling and human health risk in India: a critical review. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 11509-32	5.1	64
33	Uncovering the Recycling Potential of "New" WEEE in China. <i>Environmental Science & Technology</i> , 2016 , 50, 1347-58	10.3	193
32	Examining regeneration technologies for etching solutions: a critical analysis of the characteristics and potentials. <i>Journal of Cleaner Production</i> , 2016 , 113, 973-980	10.3	25
31	Response to "Letter to the editor re: Awasthi et al., 2016 (Environ Sci Pollut Res 23(12): 11509-11532)". <i>Environmental Science and Pollution Research</i> , 2016 , 23, 25512-25514	5.1	
30	Pollutants Release and Control during WEEE Recycling: A Critical Review. <i>Procedia Environmental Sciences</i> , 2016 , 31, 867-872		4
29	Global responses for recycling waste CRTs in e-waste. <i>Waste Management</i> , 2016 , 57, 187-197	8.6	71
28	Solutions and challenges in recycling waste cathode-ray tubes. <i>Journal of Cleaner Production</i> , 2016 , 133, 188-200	10.3	36
27	Integrated bioleaching of copper metal from waste printed circuit board-a comprehensive review of approaches and challenges. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 21141-21156	5.1	33
26	Environmental risk assessment of CRT and PCB workshops in a mobile e-waste recycling plant. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 12366-73	5.1	31
25	Solving spent lithium-ion battery problems in China: Opportunities and challenges. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 52, 1759-1767	16.2	188
24	Minimizing the increasing solid waste through zero waste strategy. <i>Journal of Cleaner Production</i> , 2015 , 104, 199-210	10.3	235
23	Rare Earth Elements Recovery from Waste Fluorescent Lamps: A Review. <i>Critical Reviews in Environmental Science and Technology</i> , 2015 , 45, 749-776	11.1	142
22	Recycling Indium From Scraped Glass of Liquid Crystal Display: Process Optimizing and Mechanism Exploring. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 1306-1312	8.3	51

21	Novel approach to recover cobalt and lithium from spent lithium-ion battery using oxalic acid. <i>Journal of Hazardous Materials</i> , 2015 , 295, 112-8	12.8	288
20	"Control-alt-delete": rebooting solutions for the E-waste problem. <i>Environmental Science & Technology</i> , 2015 , 49, 7095-108	10.3	162
19	On the sustainability of cobalt utilization in China. <i>Resources, Conservation and Recycling</i> , 2015 , 104, 12-18	11.9	47
18	Ecodesign in Consumer Electronics: Past, Present, and Future. <i>Critical Reviews in Environmental Science and Technology</i> , 2015 , 45, 840-860	11.1	94
17	Solving e-waste problem using an integrated mobile recycling plant. <i>Journal of Cleaner Production</i> , 2015 , 90, 55-59	10.3	92
16	Innovative application of ionic liquid to separate Al and cathode materials from spent high-power lithium-ion batteries. <i>Journal of Hazardous Materials</i> , 2014 , 271, 50-6	12.8	92
15	Recycling of Spent Lithium-Ion Battery: A Critical Review. <i>Critical Reviews in Environmental Science and Technology</i> , 2014 , 44, 1129-1165	11.1	483
14	Spent rechargeable lithium batteries in e-waste: composition and its implications. <i>Frontiers of Environmental Science and Engineering</i> , 2014 , 8, 792-796	5.8	55
13	Status of End-of-life Electronic Product Remanufacturing in China. <i>Journal of Industrial Ecology</i> , 2014 , 18, 577-587	7.2	23
12	The life cycle assessment of an e-waste treatment enterprise in China. <i>Journal of Material Cycles and Waste Management</i> , 2013 , 15, 469-475	3.4	36
11	Implications for the carrying capacity of lithium reserve in China. <i>Resources, Conservation and Recycling</i> , 2013 , 80, 58-63	11.9	59
10	A novel dismantling process of waste printed circuit boards using water-soluble ionic liquid. <i>Chemosphere</i> , 2013 , 93, 1288-94	8.4	57
9	Perspective of electronic waste management in China based on a legislation comparison between China and the EU. <i>Journal of Cleaner Production</i> , 2013 , 51, 80-87	10.3	98
8	Current Status on Leaching Precious Metals from Waste Printed Circuit Boards. <i>Procedia Environmental Sciences</i> , 2012 , 16, 560-568		107
7	Current Status and Future Perspective of Waste Printed Circuit Boards Recycling. <i>Procedia Environmental Sciences</i> , 2012 , 16, 590-597		61
6	Life cycle assessment of TV sets in China: a case study of the impacts of CRT monitors. <i>Waste Management</i> , 2012 , 32, 1926-36	8.6	73
5	Prediction of various discarded lithium batteries in China 2012 ,		11
4	Recycling printed circuit boards 2012 , 287-311		4

- 3 Integrated Solid Waste Management Under Global Warming~!2010-03-17~!2010-05-04~!2010-06-22~!. *The Open Waste Management Journal*, **2010**, 3, 13-17³ 5
- 2 Drivers-pressures-state-impact-response framework of hazardous waste management in China. *Critical Reviews in Environmental Science and Technology*,1-32 11.1 8
- 1 Evaluation of global niobium flow modeling and its market forecasting. *Frontiers in Energy*,1 2.6