Xianlai Zeng

List of Publications by Citations

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	Recycling of Spent Lithium-Ion Battery: A Critical Review. *Critical Reviews in Environmental Science and Technology*, **2014**, 44, 1129-1165	11.1	483
73	Novel approach to recover cobalt and lithium from spent lithium-ion battery using oxalic acid. *Journal of Hazardous Materials*, **2015**, 295, 112-8	12.8	288
72	Minimizing the increasing solid waste through zero waste strategy. *Journal of Cleaner Production*, **2015**, 104, 199-210	10.3	235
71	Environmental pollution of electronic waste recycling in India: A critical review. *Environmental Pollution*, **2016**, 211, 259-70	9.3	198
70	Uncovering the Recycling Potential of "New" WEEE in China. *Environmental Science & Technology*, **2016**, 50, 1347-58	10.3	193
69	Solving spent lithium-ion battery problems in China: Opportunities and challenges. *Renewable and Sustainable Energy Reviews*, **2015**, 52, 1759-1767	16.2	188
68	"Control-alt-delete": rebooting solutions for the E-waste problem. *Environmental Science & Technology*, **2015**, 49, 7095-108	10.3	162
67	Urban Mining of E-Waste is Becoming More Cost-Effective Than Virgin Mining. *Environmental Science & Technology*, **2018**, 52, 4835-4841	10.3	155
66	Rare Earth Elements Recovery from Waste Fluorescent Lamps: A Review. *Critical Reviews in Environmental Science and Technology*, **2015**, 45, 749-776	11.1	142
65	Innovating e-waste management: From macroscopic to microscopic scales. *Science of the Total Environment*, **2017**, 575, 1-5	10.2	130
64	Current Status on Leaching Precious Metals from Waste Printed Circuit Boards. *Procedia Environmental Sciences*, **2012**, 16, 560-568		107
63	Examining environmental management of e-waste: China's experience and lessons. *Renewable and Sustainable Energy Reviews*, **2017**, 72, 1076-1082	16.2	105
62	Perspective of electronic waste management in China based on a legislation comparison between China and the EU. *Journal of Cleaner Production*, **2013**, 51, 80-87	10.3	98
61	Ecodesign in Consumer Electronics: Past, Present, and Future. *Critical Reviews in Environmental Science and Technology*, **2015**, 45, 840-860	11.1	94
60	Innovative application of ionic liquid to separate Al and cathode materials from spent high-power lithium-ion batteries. *Journal of Hazardous Materials*, **2014**, 271, 50-6	12.8	92
59	Solving e-waste problem using an integrated mobile recycling plant. *Journal of Cleaner Production*, **2015**, 90, 55-59	10.3	92
58	Measuring the recyclability of e-waste: an innovative method and its implications. *Journal of Cleaner Production*, **2016**, 131, 156-162	10.3	84

57	Modelling the correlations of e-waste quantity with economic increase. *Science of the Total Environment*, **2018**, 613-614, 46-53	10.2	74
56	Remanufacturing strategies: A solution for WEEE problem. *Journal of Cleaner Production*, **2017**, 149, 126-136	10.3	73
55	Life cycle assessment of TV sets in China: a case study of the impacts of CRT monitors. *Waste Management*, **2012**, 32, 1926-36	8.6	73
54	Global responses for recycling waste CRTs in e-waste. *Waste Management*, **2016**, 57, 187-197	8.6	71
53	Relationship between e-waste recycling and human health risk in India: a critical review. *Environmental Science and Pollution Research*, **2016**, 23, 11509-32	5.1	64
52	Current Status and Future Perspective of Waste Printed Circuit Boards Recycling. *Procedia Environmental Sciences*, **2012**, 16, 590-597		61
51	Implications for the carrying capacity of lithium reserve in China. *Resources, Conservation and Recycling*, **2013**, 80, 58-63	11.9	59
50	A novel dismantling process of waste printed circuit boards using water-soluble ionic liquid. *Chemosphere*, **2013**, 93, 1288-94	8.4	57
49	Spent rechargeable lithium batteries in e-waste: composition and its implications. *Frontiers of Environmental Science and Engineering*, **2014**, 8, 792-796	5.8	55
48	Recycling Indium from Scraped Glass of Liquid Crystal Display: Process Optimizing and Mechanism Exploring. *ACS Sustainable Chemistry and Engineering*, **2015**, 3, 1306-1312	8.3	51
47	On the sustainability of cobalt utilization in China. *Resources, Conservation and Recycling*, **2015**, 104, 12-18	11.9	47
46	Evaluating waste printed circuit boards recycling: Opportunities and challenges, a mini review. *Waste Management and Research*, **2017**, 35, 346-356	4	41
45	The life cycle assessment of an e-waste treatment enterprise in China. *Journal of Material Cycles and Waste Management*, **2013**, 15, 469-475	3.4	36
44	Solutions and challenges in recycling waste cathode-ray tubes. *Journal of Cleaner Production*, **2016**, 133, 188-200	10.3	36
43	Integrated bioleaching of copper metal from waste printed circuit board-a comprehensive review of approaches and challenges. *Environmental Science and Pollution Research*, **2016**, 23, 21141-21156	5.1	33
42	Environmental risk assessment of CRT and PCB workshops in a mobile e-waste recycling plant. *Environmental Science and Pollution Research*, **2015**, 22, 12366-73	5.1	31
41	Mapping anthropogenic mineral generation in China and its implications for a circular economy. *Nature Communications*, **2020**, 11, 1544	17.4	31
40	Dynamic Stocks and Flows Analysis of Bisphenol A (BPA) in China: 2000-2014. *Environmental Science & Technology*, **2018**, 52, 3706-3715	10.3	30

39	Examining the sustainability of China□ nickel supply: 1950□2050. *Resources, Conservation and Recycling*, **2018**, 139, 188-193	11.9	26
38	Examining regeneration technologies for etching solutions: a critical analysis of the characteristics and potentials. *Journal of Cleaner Production*, **2016**, 113, 973-980	10.3	25
37	Designing and examining e-waste recycling process: methodology and case studies. *Environmental Technology (United Kingdom)*, **2017**, 38, 652-660	2.6	24
36	Uncovering the evolution of substance flow analysis of nickel in China. *Resources, Conservation and Recycling*, **2018**, 135, 210-215	11.9	24
35	Status of End-of-life Electronic Product Remanufacturing in China. *Journal of Industrial Ecology*, **2014**, 18, 577-587	7.2	23
34	Comparative Examining and Analysis of E-waste Recycling in Typical Developing and Developed Countries. *Procedia Environmental Sciences*, **2016**, 35, 676-680		22
33	A simplified method to evaluate the recycling potential of e-waste. *Journal of Cleaner Production*, **2017**, 168, 1518-1524	10.3	21
32	Estimating the Evolution of Urban Mining Resources in Hong Kong, Up to the Year 2050. *Environmental Science & Technology*, **2019**, 53, 1394-1403	10.3	21
31	Examining the evolution of metals utilized in printed circuit boards. *Environmental Technology (United Kingdom)*, **2017**, 38, 1696-1701	2.6	19
30	Environmental optimisation of mine scheduling through life cycle assessment integration. *Resources, Conservation and Recycling*, **2019**, 142, 267-276	11.9	17
29	Measuring the sustainability of tin in China. *Science of the Total Environment*, **2018**, 635, 1351-1359	10.2	17
28	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. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 4704-4709	8.3	17
27	Temporally explicit life cycle assessment as an environmental performance decision making tool in rare earth project development. *Minerals Engineering*, **2019**, 135, 64-73	4.9	15
26	Mineral processing simulation based-environmental life cycle assessment for rare earth project development: A case study on the Songwe Hill project. *Journal of Environmental Management*, **2019**, 249, 109353	7.9	14
25	China E-waste management: Struggling for future success. *Resources, Conservation and Recycling*, **2018**, 139, 48-49	11.9	13
24	Forecasting the temporal stock generation and recycling potential of metals towards a sustainable future: The case of gallium in China. *Science of the Total Environment*, **2019**, 689, 332-340	10.2	13
23	Examining the Temporal Demand and Sustainability of Copper in China. *Environmental Science & Technology*, **2019**, 53, 13812-13821	10.3	13
22	Assessing the sustainability of lead utilization in China. *Journal of Environmental Management*, **2016**, 183, 275-279	7.9	12

21	Prediction of various discarded lithium batteries in China **2012**,		11
20	Chilling Prospect: Climate Change Effects of Mismanaged Refrigerants in China. *Environmental Science & Technology*, **2018**, 52, 6350-6356	10.3	10
19	Characterizing the transboundary movements of UEEE/WEEE: Is Macau a regional transfer center?. *Journal of Cleaner Production*, **2017**, 157, 243-253	10.3	9
18	Emerging anthropogenic circularity science: principles, practices, and challenges. *IScience*, **2021**, 24, 102237	6.1	9
17	Comprehensive characterization on Ga (In)-bearing dust generated from semiconductor industry for effective recovery of critical metals. *Waste Management*, **2019**, 89, 212-223	8.6	8
16	Drivers-pressures-state-impact-response framework of hazardous waste management in China. *Critical Reviews in Environmental Science and Technology*,1-32	11.1	8
15	Mapping Recyclability of Industrial Waste for Anthropogenic Circularity: A Circular Economy Approach. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 11927-11936	8.3	7
14	Integrated Solid Waste Management Under Global Warming~!2010-03-17~!2010-05-04~!2010-06-22~!. *The Open Waste Management Journal*, **2010**, 3, 13-17	3.3	5
13	Recycling printed circuit boards **2012**, 287-311		4
12	A method to assess national metal criticality: the environment as a foremost measurement. *Humanities and Social Sciences Communications*, **2020**, 7,	2.8	4
11	Quantifying material flow of oily sludge in China and its implications. *Journal of Environmental Management*, **2021**, 287, 112115	7.9	4
10	Pollutants Release and Control during WEEE Recycling: A Critical Review. *Procedia Environmental Sciences*, **2016**, 31, 867-872		4
9	Recycling printed circuit boards **2019**, 311-325		3
8	Eco-districts in France: What tools to ensure goals achievement?. *Science China Earth Sciences*, **2020**, 63, 865-874	4.6	2
7	The role of China's aluminum recycling on sustainable resource and emission pathways. *Resources Policy*, **2022**, 76, 102552	7.2	2
6	Estimation of waste outflows for multiple product types in China from 2010-2050. *Scientific Data*, **2021**, 8, 15	8.2	2
5	WEEE management in China **2019**, 521-540		1
4	Uncovering the evolution of tin use in the United States and its implications. *Frontiers of Environmental Science and Engineering*, **2021**, 15, 1	5.8	1

3	Reshaping global policies for circular economy **2022**, 100003	1
2	Response to "Letter to the editor re: Awasthi et al., 2016 (Environ Sci Pollut Res 23(12): 11509-11532)". *Environmental Science and Pollution Research*, **2016**, 23, 25512-25514	5.1
1	Evaluation of global niobium flow modeling and its market forecasting. *Frontiers in Energy*,1	2.6