Xianlai Zeng

List of Publications by Year
in descending order

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79	5,929	101384	82410
papers	citations	36 h-index	72 g-index

82	82	82	4680
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Recycling of Spent Lithium-Ion Battery: A Critical Review. Critical Reviews in Environmental Science and Technology, 2014, 44, 1129-1165.	6.6	636
2	Novel approach to recover cobalt and lithium from spent lithium-ion battery using oxalic acid. Journal of Hazardous Materials, 2015, 295, 112-118.	6.5	390
3	Minimizing the increasing solid waste through zero waste strategy. Journal of Cleaner Production, 2015, 104, 199-210.	4.6	351
4	Environmental pollution of electronic waste recycling in India: A critical review. Environmental Pollution, 2016, 211, 259-270.	3.7	266
5	Solving spent lithium-ion battery problems in China: Opportunities and challenges. Renewable and Sustainable Energy Reviews, 2015, 52, 1759-1767.	8.2	258
6	Uncovering the Recycling Potential of â€œNewâ€•WEEE in China. Environmental Science & Technology, 2016, 50, 1347-1358.	4.6	256
7	Urban Mining of E-Waste is Becoming More Cost-Effective Than Virgin Mining. Environmental Science & Technology, 2018, 52, 4835-4841.	4.6	246
8	â€œControl-Alt-Deleteâ€• Rebooting Solutions for the E-Waste Problem. Environmental Science & Technology, 2015, 49, 7095-7108.	4.6	198
9	Rare Earth Elements Recovery from Waste Fluorescent Lamps: A Review. Critical Reviews in Environmental Science and Technology, 2015, 45, 749-776.	6.6	180
10	Innovating e-waste management: From macroscopic to microscopic scales. Science of the Total Environment, 2017, 575, 1-5.	3.9	157
11	Examining environmental management of e-waste: China's experience and lessons. Renewable and Sustainable Energy Reviews, 2017, 72, 1076-1082.	8.2	142
12	Current Status on Leaching Precious Metals from Waste Printed Circuit Boards. Procedia Environmental Sciences, 2012, 16, 560-568.	1.3	141
13	Innovative application of ionic liquid to separate Al and cathode materials from spent high-power lithium-ion batteries. Journal of Hazardous Materials, 2014, 271, 50-56.	6.5	137
14	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.	4.6	122
15	Modelling the correlations of e-waste quantity with economic increase. Science of the Total Environment, 2018, 613-614, 46-53.	3.9	113
16	Ecodesign in Consumer Electronics:Past, Present, and Future. Critical Reviews in Environmental Science and Technology, 2015, 45, 840-860.	6.6	112
17	Measuring the recyclability of e-waste: an innovative method and its implications. Journal of Cleaner Production, 2016, 131, 156-162.	4.6	110
18	Solving e-waste problem using an integrated mobile recycling plant. Journal of Cleaner Production, 2015, 90, 55-59.	4.6	108

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19	Relationship between e-waste recycling and human health risk in India: a critical review. Environmental Science and Pollution Research, 2016, 23, 11509-11532.	2.7	98
20	Global responses for recycling waste CRTs in e-waste. Waste Management, 2016, 57, 187-197.	3.7	95
21	Remanufacturing strategies: A solution for WEEE problem. Journal of Cleaner Production, 2017, 149, 126-136.	4.6	92
22	Mapping anthropogenic mineral generation in China and its implications for a circular economy. Nature Communications, 2020, 11, 1544.	5.8	91
23	Current Status and Future Perspective of Waste Printed Circuit Boards Recycling. Procedia Environmental Sciences, 2012, 16, 590-597.	1.3	78
24	On the sustainability of cobalt utilization in China. Resources, Conservation and Recycling, 2015, 104, 12-18.	5.3	77
25	Life cycle assessment of TV sets in China: A case study of the impacts of CRT monitors. Waste Management, 2012, 32, 1926-1936.	3.7	76
26	Implications for the carrying capacity of lithium reserve in China. Resources, Conservation and Recycling, 2013, 80, 58-63.	5.3	75
27	Spent rechargeable lithium batteries in e-waste: composition and its implications. Frontiers of Environmental Science and Engineering, 2014, 8, 792-796.	3.3	70
28	A novel dismantling process of waste printed circuit boards using water-soluble ionic liquid. Chemosphere, 2013, 93, 1288-1294.	4.2	65
29	Evaluating waste printed circuit boards recycling: Opportunities and challenges, a mini review. Waste Management and Research, 2017, 35, 346-356.	2.2	64
30	Recycling Indium from Scraped Glass of Liquid Crystal Display: Process Optimizing and Mechanism Exploring. ACS Sustainable Chemistry and Engineering, 2015, 3, 1306-1312.	3.2	59
31	Dynamic Stocks and Flows Analysis of Bisphenol A (BPA) in China: 2000â€“2014. Environmental Science & Technology, 2018, 52, 3706-3715.	4.6	53
32	Examining the sustainability of Chinaâ€™s nickel supply: 1950â€“2050. Resources, Conservation and Recycling, 2018, 139, 188-193.	5.3	52
33	Solutions and challenges in recycling waste cathode-ray tubes. Journal of Cleaner Production, 2016, 133, 188-200.	4.6	46
34	The life cycle assessment of an e-waste treatment enterprise in China. Journal of Material Cycles and Waste Management, 2013, 15, 469-475.	1.6	45
35	Uncovering the evolution of substance flow analysis of nickel in China. Resources, Conservation and Recycling, 2018, 135, 210-215.	5.3	45
36	Integrated bioleaching of copper metal from waste printed circuit boardâ€”a comprehensive review of approaches and challenges. Environmental Science and Pollution Research, 2016, 23, 21141-21156.	2.7	39

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37	Accelerating circular economy solutions to achieve the 2030 agenda for sustainable development goals. , 2022, 1, 100001.		39
38	Environmental risk assessment of CRT and PCB workshops in a mobile e-waste recycling plant. Environmental Science and Pollution Research, 2015, 22, 12366-12373.	2.7	37
39	Estimating the Evolution of Urban Mining Resources in Hong Kong, Up to the Year 2050. Environmental Science & Technology, 2019, 53, 1394-1403.	4.6	33
40	Comparative Examining and Analysis of E-waste Recycling in Typical Developing and Developed Countries. Procedia Environmental Sciences, 2016, 35, 676-680.	1.3	32
41	A simplified method to evaluate the recycling potential of e-waste. Journal of Cleaner Production, 2017, 168, 1518-1524.	4.6	32
42	Status of Endâ€ofâ€life Electronic Product Remanufacturing in China. Journal of Industrial Ecology, 2014, 18, 577-587.	2.8	31
43	Measuring the sustainability of tin in China. Science of the Total Environment, 2018, 635, 1351-1359.	3.9	31
44	Examining regeneration technologies for etching solutions: a critical analysis of the characteristics and potentials. Journal of Cleaner Production, 2016, 113, 973-980.	4.6	30
45	Designing and examining e-waste recycling process: methodology and case studies. Environmental Technology (United Kingdom), 2017, 38, 652-660.	1.2	30
46	Examining the Temporal Demand and Sustainability of Copper in China. Environmental Science & Technology, 2019, 53, 13812-13821.	4.6	29
47	Environmental optimisation of mine scheduling through life cycle assessment integration. Resources, Conservation and Recycling, 2019, 142, 267-276.	5.3	27
48	Emerging anthropogenic circularity science: Principles, practices, and challenges. IScience, 2021, 24, 102237.	1.9	26
49	China E-waste management: Struggling for future success. Resources, Conservation and Recycling, 2018, 139, 48-49.	5.3	25
50	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.	3.9	25
51	Mapping Recyclability of Industrial Waste for Anthropogenic Circularity: A Circular Economy Approach. ACS Sustainable Chemistry and Engineering, 2021, 9, 11927-11936.	3.2	25
52	Evolution of the anthropogenic chromium cycle in China. Journal of Industrial Ecology, 2022, 26, 592-608.	2.8	24
53	Examining the evolution of metals utilized in printed circuit boards. Environmental Technology (United Kingdom), 2017, 38, 1696-1701.	1.2	22
54	Temporally explicit life cycle assessment as an environmental performance decision making tool in rare earth project development. Minerals Engineering, 2019, 135, 64-73.	1.8	22

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55	The role of China's aluminum recycling on sustainable resource and emission pathways. Resources Policy, 2022, 76, 102552.	4.2	22
56	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.	3.8	20
57	Drivers-pressures-state-impact-response framework of hazardous waste management in China. Critical Reviews in Environmental Science and Technology, 2022, 52, 2930-2961.	6.6	20
58	Chilling Prospect: Climate Change Effects of Mismanaged Refrigerants in China. Environmental Science & Technology, 2018, 52, 6350-6356.	4.6	19
59	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.	3.2	18
60	Quantifying material flow of oily sludge in China and its implications. Journal of Environmental Management, 2021, 287, 112115.	3.8	18
61	Reshaping global policies for circular economy. , 2022, 1, 100003.		18
62	Assessing the sustainability of lead utilization in China. Journal of Environmental Management, 2016, 183, 275-279.	3.8	17
63	Prediction of various discarded lithium batteries in China. , 2012, , .		13
64	Characterizing the transboundary movements of UEEE/WEEE: Is Macau a regional transfer center?. Journal of Cleaner Production, 2017, 157, 243-253.	4.6	13
65	A method to assess national metal criticality: the environment as a foremost measurement. Humanities and Social Sciences Communications, 2020, 7, .	1.3	13
66	Estimation of waste outflows for multiple product types in China from 2010â€“2050. Scientific Data, 2021, 8, 15.	2.4	12
67	Recycling printed circuit boards. , 2012, , 287-311.		10
68	Comprehensive characterization on Ga (In)-bearing dust generated from semiconductor industry for effective recovery of critical metals. Waste Management, 2019, 89, 212-223.	3.7	9
69	Pollutants Release and Control during WEEE Recycling: A Critical Review. Procedia Environmental Sciences, 2016, 31, 867-872.	1.3	8
70	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.	2.8	8
71	Comparing the costs and benefits of virgin and urban mining. Journal of Management Science and Engineering, 2022, 7, 98-106.	1.9	7
72	WEEE management in China. , 2019, , 521-540.		4

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73	Uncovering the evolution of tin use in the United States and its implications. Frontiers of Environmental Science and Engineering, 2021, 15, 1.	3.3	4
74	Examining the Temporal and Spatial Models of Chinaâ€™s Circular Economy Based upon Detailed Data of E-Plastic Recycling. International Journal of Environmental Research and Public Health, 2022, 19, 2807.	1.2	4
75	Recycling printed circuit boards. , 2019, , 311-325.		3
76	Eco-districts in France: What tools to ensure goals achievement?. Science China Earth Sciences, 2020, 63, 865-874.	2.3	3
77	Accurately quantifying the detoxication of solid waste and its scientific insights: The case of typical industrial waste. Chinese Science Bulletin, 2022, 67, 685-696.	0.4	1
78	Evaluation of global niobium flow modeling and its market forecasting. Frontiers in Energy, 2023, 17, 286-293.	1.2	1
79	Response to â€œLetter to the editor re: Awasthi et al., 2016 (Environ Sci Pollut Res 23(12): 11509â€“11532)â€. Environmental Science and Pollution Research, 2016, 23, 25512-25514.	2.7	0