

Jia Li

List of Publications by Year in descending order

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48
papers

3,628
citations

186265
28
h-index

214800
47
g-index

48
all docs

48
docs citations

48
times ranked

2050
citing authors

#	ARTICLE	IF	CITATIONS
1	Environmentally-friendly oxygen-free roasting/wet magnetic separation technology for in situ recycling cobalt, lithium carbonate and graphite from spent LiCoO ₂ /graphite lithium batteries. Journal of Hazardous Materials, 2016, 302, 97-104.	12.4	405
2	Recycle Technology for Recovering Resources and Products from Waste Printed Circuit Boards. Environmental Science & Technology, 2007, 41, 1995-2000.	10.0	403
3	Novel Approach for in Situ Recovery of Lithium Carbonate from Spent Lithium Ion Batteries Using Vacuum Metallurgy. Environmental Science & Technology, 2017, 51, 11960-11966.	10.0	284
4	Recycling metals from lithium ion battery by mechanical separation and vacuum metallurgy. Journal of Hazardous Materials, 2017, 338, 124-131.	12.4	257
5	Challenges to Future Development of Spent Lithium Ion Batteries Recovery from Environmental and Technological Perspectives. Environmental Science & Technology, 2020, 54, 9-25.	10.0	192
6	Triboelectrostatic separation for granular plastic waste recycling: A review. Waste Management, 2013, 33, 585-597.	7.4	179
7	Application of corona discharge and electrostatic force to separate metals and nonmetals from crushed particles of waste printed circuit boards. Journal of Electrostatics, 2007, 65, 233-238.	1.9	135
8	Generation and detection of metal ions and volatile organic compounds (VOCs) emissions from the pretreatment processes for recycling spent lithium-ion batteries. Waste Management, 2016, 52, 221-227.	7.4	133
9	Environmental Friendly Automatic Line for Recovering Metal from Waste Printed Circuit Boards. Environmental Science & Technology, 2010, 44, 1418-1423.	10.0	112
10	Auto-sorting commonly recovered plastics from waste household appliances and electronics using near-infrared spectroscopy. Journal of Cleaner Production, 2020, 246, 118732.	9.3	102
11	Coupling reactions and collapsing model in the roasting process of recycling metals from LiCoO ₂ batteries. Journal of Cleaner Production, 2018, 205, 923-929.	9.3	98
12	Pyrometallurgical Technology in the Recycling of a Spent Lithium Ion Battery: Evolution and the Challenge. ACS ES&T Engineering, 2021, 1, 1369-1382.	7.6	96
13	Electrostatic Separation for Recovering Metals and Nonmetals from Waste Printed Circuit Board: Problems and Improvements. Environmental Science & Technology, 2008, 42, 5272-5276.	10.0	90
14	Tribo-charging properties of waste plastic granules in process of tribo-electrostatic separation. Waste Management, 2015, 35, 36-41.	7.4	83
15	A new two-roll electrostatic separator for recycling of metals and nonmetals from waste printed circuit board. Journal of Hazardous Materials, 2009, 161, 257-262.	12.4	75
16	An environmentally friendly discharge technology to pretreat spent lithium-ion batteries. Journal of Cleaner Production, 2020, 245, 118820.	9.3	74
17	A Novel Process for Recovering Valuable Metals from Waste Nickel~Cadmium Batteries. Environmental Science & Technology, 2009, 43, 8974-8978.	10.0	73
18	Optimizing the operating parameters of corona electrostatic separation for recycling waste scraped printed circuit boards by computer simulation of electric field. Journal of Hazardous Materials, 2008, 153, 269-275.	12.4	69

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19	Phenolic Molding Compound Filled with Nonmetals of Waste PCBs. <i>Environmental Science & Technology</i> , 2008, 42, 624-628.	10.0	69
20	An environmental friendly recovery production line of waste toner cartridges. <i>Journal of Hazardous Materials</i> , 2011, 185, 696-702.	12.4	60
21	Movement behavior in electrostatic separation: Recycling of metal materials from waste printed circuit board. <i>Journal of Materials Processing Technology</i> , 2008, 197, 101-108.	6.3	55
22	Enhancement of the recycling of waste Ni-Cd and Ni-MH batteries by mechanical treatment. <i>Waste Management</i> , 2011, 31, 1292-1299.	7.4	52
23	Characterization and recycling of cadmium from waste nickel-cadmium batteries. <i>Waste Management</i> , 2010, 30, 2292-2298.	7.4	51
24	Eddy current separation technology for recycling printed circuit boards from crushed cell phones. <i>Journal of Cleaner Production</i> , 2017, 141, 1316-1323.	9.3	45
25	Electrostatic Separation for Recycling Conductors, Semiconductors, and Nonconductors from Electronic Waste. <i>Environmental Science & Technology</i> , 2012, 46, 10556-10563.	10.0	39
26	Electrostatic separation for multi-size granule of crushed printed circuit board waste using two-roll separator. <i>Journal of Hazardous Materials</i> , 2008, 159, 230-234.	12.4	36
27	New Technology for Separating Resin Powder and Fiberglass Powder from Fiberglass-Resin Powder of Waste Printed Circuit Boards. <i>Environmental Science & Technology</i> , 2014, 48, 5171-5178.	10.0	30
28	A model for computing the trajectories of the conducting particles from waste printed circuit boards in corona electrostatic separators. <i>Journal of Hazardous Materials</i> , 2008, 151, 52-57.	12.4	28
29	Critical rotational speed model of the rotating roll electrode in corona electrostatic separation for recycling waste printed circuit boards. <i>Journal of Hazardous Materials</i> , 2008, 154, 331-336.	12.4	27
30	Tribo-aero-electrostatic separator for coarse granular insulating materials. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2013, 20, 1510-1515.	2.9	27
31	Classification of Common Household Plastic Wastes Combining Multiple Methods Based on Near-Infrared Spectroscopy. <i>ACS ES&T Engineering</i> , 2021, 1, 1065-1073.	7.6	27
32	Management strategies on the industrialization road of state-of-the-art technologies for e-waste recycling: the case study of electrostatic separation—a review. <i>Waste Management and Research</i> , 2013, 31, 130-140.	3.9	26
33	Environmentally-friendly technology for rapid on-line recycling of acrylonitrile-butadiene-styrene, polystyrene and polypropylene using near-infrared spectroscopy. <i>Journal of Cleaner Production</i> , 2019, 213, 838-844.	9.3	25
34	Environmental Friendly Crush-Magnetic Separation Technology for Recycling Metal-Plated Plastics from End-of-Life Vehicles. <i>Environmental Science & Technology</i> , 2012, 46, 2661-2667.	10.0	23
35	Compound tribo-electrostatic separation for recycling mixed plastic waste. <i>Journal of Hazardous Materials</i> , 2019, 367, 43-49.	12.4	22
36	Theoretic model and computer simulation of separating mixture metal particles from waste printed circuit board by electrostatic separator. <i>Journal of Hazardous Materials</i> , 2008, 153, 1308-1313.	12.4	21

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37	An improved model for computing the trajectories of conductive particles in roll-type electrostatic separator for recycling metals from WEEE. <i>Journal of Hazardous Materials</i> , 2009, 167, 489-493.	12.4	18
38	Improved Overall Performances of a Tribo-Aero-Electrostatic Separator for Granular Plastics From Waste Electric and Electronic Equipment. <i>IEEE Transactions on Industry Applications</i> , 2015, 51, 4159-4165.	4.9	16
39	Charge-decay electrostatic separation for removing Polyvinyl chloride from mixed plastic wastes. <i>Journal of Cleaner Production</i> , 2017, 157, 148-154.	9.3	16
40	Numerical modeling of the trajectories of plastic granules in a tribo-aero-electrostatic separator. <i>Journal of Electrostatics</i> , 2013, 71, 281-286.	1.9	15
41	Newly-Patented Technical Solutions for improving the Tribo-Electrostatic Separation of Mixed Granular Solids. <i>Recent Patents on Engineering</i> , 2012, 6, 104-115.	0.4	14
42	A sensor combination based automatic sorting system for waste washing machine parts. <i>Resources, Conservation and Recycling</i> , 2022, 181, 106270.	10.8	9
43	Dynamics of spherical metallic particles in cylinder electrostatic separators/purifiers. <i>Journal of Hazardous Materials</i> , 2008, 156, 74-79.	12.4	5
44	Dynamics of conductive and nonconductive particles under high-voltage electrostatic coupling fields. <i>Science in China Series D: Earth Sciences</i> , 2009, 52, 2359-2366.	0.9	5
45	Real-time monitoring system for improving corona electrostatic separation in the process of recovering waste printed circuit boards. <i>Waste Management and Research</i> , 2014, 32, 1227-1234.	3.9	5
46	Physical model of granule adhesion to the belt-electrodes of a tribo-aero-electrostatic separator. <i>Journal of Physics: Conference Series</i> , 2013, 418, 012073.	0.4	1
47	Particle trajectory model for tribo-electrostatic separating mixed granular plastics. <i>Cleaner Engineering and Technology</i> , 2021, 4, 100219.	4.0	1
48	Recover lithium and prepare nano-cobalt from spent lithium ion batteries using a one-pot mechanochemical reaction. <i>Cleaner Engineering and Technology</i> , 2021, 5, 100282.	4.0	0