

Zhenming Xu

List of Publications by Year in descending order

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159
papers

7,627
citations

61687

45
h-index

68831

81
g-index

160
all docs

160
docs citations

160
times ranked

4572
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.	6.5	405
2	Recycle Technology for Recovering Resources and Products from Waste Printed Circuit Boards. Environmental Science & Technology, 2007, 41, 1995-2000.	4.6	403
3	A review of current progress of recycling technologies for metals from waste electrical and electronic equipment. Journal of Cleaner Production, 2016, 127, 19-36.	4.6	389
4	Recycling of non-metallic fractions from waste printed circuit boards: A review. Journal of Hazardous Materials, 2009, 168, 567-590.	6.5	332
5	Novel Approach for in Situ Recovery of Lithium Carbonate from Spent Lithium Ion Batteries Using Vacuum Metallurgy. Environmental Science & Technology, 2017, 51, 11960-11966.	4.6	284
6	Recycling of non-metallic fractions from waste electrical and electronic equipment (WEEE): A review. Waste Management, 2014, 34, 1455-1469.	3.7	238
7	Precious metals recovery from waste printed circuit boards: A review for current status and perspective. Resources, Conservation and Recycling, 2016, 113, 28-39.	5.3	211
8	Challenges to Future Development of Spent Lithium Ion Batteries Recovery from Environmental and Technological Perspectives. Environmental Science & Technology, 2020, 54, 9-25.	4.6	192
9	Triboelectrostatic separation for granular plastic waste recycling: A review. Waste Management, 2013, 33, 585-597.	3.7	179
10	Disposing and Recycling Waste Printed Circuit Boards: Disconnecting, Resource Recovery, and Pollution Control. Environmental Science & Technology, 2015, 49, 721-733.	4.6	168
11	Response to Waste Electrical and Electronic Equipments in China: Legislation, recycling system, and advanced integrated process. Environmental Science & Technology, 2012, 46, 4713-4724.	4.6	150
12	PM ₁₀ and PM _{2.5} and Health Risk Assessment for Heavy Metals in a Typical Factory for Cathode Ray Tube Television Recycling. Environmental Science & Technology, 2013, 47, 12469-12476.	4.6	146
13	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.	3.7	133
14	Environmental Friendly Automatic Line for Recovering Metal from Waste Printed Circuit Boards. Environmental Science & Technology, 2010, 44, 1418-1423.	4.6	112
15	Pyrometallurgical Technology in the Recycling of a Spent Lithium Ion Battery: Evolution and the Challenge. ACS ES&T Engineering, 2021, 1, 1369-1382.	3.7	96
16	Recycling indium from waste liquid crystal display panel by vacuum carbon-reduction. Journal of Hazardous Materials, 2014, 268, 185-190.	6.5	95
17	Electrochemical Relithiation for Direct Regeneration of LiCoO ₂ Materials from Spent Lithium-Ion Battery Electrodes. ACS Sustainable Chemistry and Engineering, 2020, 8, 11596-11605.	3.2	92
18	An environmentally friendly technology of disassembling electronic components from waste printed circuit boards. Waste Management, 2016, 53, 218-224.	3.7	90

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19	Constructing environment-friendly return road of metals from e-waste: Combination of physical separation technologies. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 54, 745-760.	8.2	87
20	Application of Supercritical Water To Decompose Brominated Epoxy Resin and Environmental Friendly Recovery of Metals from Waste Memory Module. <i>Environmental Science & Technology</i> , 2015, 49, 1761-1767.	4.6	83
21	Tribo-charging properties of waste plastic granules in process of tribo-electrostatic separation. <i>Waste Management</i> , 2015, 35, 36-41.	3.7	83
22	Pyrolysis and utilization of nonmetal materials in waste printed circuit boards: Debromination pyrolysis, temperature-controlled condensation, and synthesis of oil-based resin. <i>Journal of Hazardous Materials</i> , 2019, 364, 1-10.	6.5	81
23	Environmental-friendly recovery of non-metallic resources from waste printed circuit boards: A review. <i>Journal of Cleaner Production</i> , 2021, 279, 123738.	4.6	81
24	An efficient rough vacuum-chlorinated separation method for the recovery of indium from waste liquid crystal display panels. <i>Green Chemistry</i> , 2012, 14, 3395.	4.6	79
25	State-of-the-Art of Recycling E-Wastes by Vacuum Metallurgy Separation. <i>Environmental Science & Technology</i> , 2014, 48, 14092-14102.	4.6	79
26	Reduction, detoxification and recycling of solid waste by hydrothermal technology: A review. <i>Chemical Engineering Journal</i> , 2020, 390, 124651.	6.6	76
27	A Plate Produced by Nonmetallic Materials of Pulverized Waste Printed Circuit Boards. <i>Environmental Science & Technology</i> , 2008, 42, 5267-5271.	4.6	72
28	Wood Plastic Composite Produced by Nonmetals from Pulverized Waste Printed Circuit Boards. <i>Environmental Science & Technology</i> , 2010, 44, 463-468.	4.6	71
29	Separating and Recovering Pb from Copper-Rich Particles of Crushed Waste Printed Circuit Boards by Evaporation and Condensation. <i>Environmental Science & Technology</i> , 2011, 45, 5359-5365.	4.6	70
30	Optimizing the operating parameters of corona electrostatic separation for recycling waste scraped printed circuit boards by computer simulation of electric field. <i>Journal of Hazardous Materials</i> , 2008, 153, 269-275.	6.5	69
31	Technological process and optimum design of organic materials vacuum pyrolysis and indium chlorinated separation from waste liquid crystal display panels. <i>Journal of Hazardous Materials</i> , 2013, 263, 610-617.	6.5	69
32	Highly efficient selective recovery of lithium from spent lithium-ion batteries by thermal reduction with cheap ammonia reagent. <i>Journal of Hazardous Materials</i> , 2021, 418, 126319.	6.5	65
33	PBDEs Emission from Waste Printed Wiring Boards during Thermal Process. <i>Environmental Science & Technology</i> , 2015, 49, 2716-2723.	4.6	63
34	Separating and Recycling Metals from Mixed Metallic Particles of Crushed Electronic Wastes by Vacuum Metallurgy. <i>Environmental Science & Technology</i> , 2009, 43, 7074-7078.	4.6	60
35	Separating and Recycling Plastic, Glass, and Gallium from Waste Solar Cell Modules by Nitrogen Pyrolysis and Vacuum Decomposition. <i>Environmental Science & Technology</i> , 2016, 50, 9242-9250.	4.6	59
36	Research of the thermal decomposition mechanism and pyrolysis pathways from macromonomer to small molecule of waste printed circuit board. <i>Journal of Hazardous Materials</i> , 2020, 383, 121234.	6.5	58

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37	Recycling gold and copper from waste printed circuit boards using chlorination process. RSC Advances, 2015, 5, 8957-8964.	1.7	57
38	Tracking and quantifying the cobalt flows in mainland China during 1994â€“2016: Insights into use, trade and prospective demand. Science of the Total Environment, 2019, 672, 752-762.	3.9	57
39	A cleaner approach to the discharge process of spent lithium ion batteries in different solutions. Journal of Cleaner Production, 2020, 255, 120064.	4.6	55
40	Recovery of Tantalum from Waste Tantalum Capacitors by Supercritical Water Treatment. ACS Sustainable Chemistry and Engineering, 2017, 5, 4421-4428.	3.2	54
41	Novel targetedly extracting lithium: An environmental-friendly controlled chlorinating technology and mechanism of spent lithium ion batteries recovery. Journal of Hazardous Materials, 2021, 404, 123947.	6.5	54
42	Polybrominated diphenyl ethers in indoor air during waste TV recycling process. Journal of Hazardous Materials, 2015, 283, 439-446.	6.5	51
43	Vacuum pyrolysis characteristics and kinetic analysis of liquid crystal from scrap liquid crystal display panels. Journal of Hazardous Materials, 2017, 327, 55-63.	6.5	47
44	A stable Ta ₃ N ₅ @PANI core-shell photocatalyst: Shell thickness effect, high-efficient photocatalytic performance and enhanced mechanism. Journal of Catalysis, 2019, 371, 175-184.	3.1	47
45	Mechanochemical degradation of brominated flame retardants in waste printed circuit boards by Ball Milling. Journal of Hazardous Materials, 2020, 385, 121509.	6.5	47
46	The status and development of treatment techniques of typical waste electrical and electronic equipment in China: A review. Waste Management and Research, 2014, 32, 254-269.	2.2	44
47	Vacuum pyrolysis characteristics and parameter optimization of recycling organic materials from waste tantalum capacitors. Journal of Hazardous Materials, 2018, 342, 192-200.	6.5	44
48	Application of pyrolysis process to remove and recover liquid crystal and films from waste liquid crystal display glass. Journal of Hazardous Materials, 2012, 243, 311-318.	6.5	42
49	Application of Life Cycle Assessment on Electronic Waste Management: A Review. Environmental Management, 2017, 59, 693-707.	1.2	42
50	Selective recovery of lead and zinc through controlling cathodic potential in a bioelectrochemically-assisted electrodeposition system. Journal of Hazardous Materials, 2020, 386, 121941.	6.5	42
51	Catalytic effect and mechanism of coexisting copper on conversion of organics during pyrolysis of waste printed circuit boards. Journal of Hazardous Materials, 2021, 403, 123465.	6.5	42
52	Integrated technology for recovering Au from waste memory module by chlorination process: Selective leaching, extraction, and distillation. Journal of Cleaner Production, 2017, 161, 30-39.	4.6	41
53	Environmental friendly automated line for recovering the cabinet of waste refrigerator. Waste Management, 2011, 31, 2319-2326.	3.7	40
54	Method for Recycling Tantalum from Waste Tantalum Capacitors by Chloride Metallurgy. ACS Sustainable Chemistry and Engineering, 2017, 5, 1376-1381.	3.2	40

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55	Study of reaction characteristics and controlling mechanism of chlorinating conversion of cathode materials from spent lithium-ion batteries. <i>Journal of Hazardous Materials</i> , 2021, 407, 124704.	6.5	40
56	Application of pyrolysis to recycling organics from waste tantalum capacitors. <i>Journal of Hazardous Materials</i> , 2017, 335, 39-46.	6.5	39
57	Decomposition behavior and mechanism of epoxy resin from waste integrated circuits under supercritical water condition. <i>Journal of Hazardous Materials</i> , 2019, 374, 356-364.	6.5	39
58	An automatic sorting system for electronic components detached from waste printed circuit boards. <i>Waste Management</i> , 2022, 137, 1-8.	3.7	39
59	Approaches To Improve Separation Efficiency of Eddy Current Separation for Recovering Aluminum from Waste Toner Cartridges. <i>Environmental Science & Technology</i> , 2012, 46, 6214-6221.	4.6	37
60	Treatment of liquid crystals and recycling indium for stripping product gained by mechanical stripping process from waste liquid crystal display panels. <i>Journal of Cleaner Production</i> , 2017, 162, 1472-1481.	4.6	37
61	An environmentally-friendly vacuum reduction metallurgical process to recover germanium from coal fly ash. <i>Journal of Hazardous Materials</i> , 2016, 312, 28-36.	6.5	36
62	Application of vacuum reduction and chlorinated distillation to enrich and prepare pure germanium from coal fly ash. <i>Journal of Hazardous Materials</i> , 2017, 321, 18-27.	6.5	36
63	Thermal degradation and pollutant emission from waste printed circuit boards mounted with electronic components. <i>Journal of Hazardous Materials</i> , 2020, 382, 121038.	6.5	35
64	Recovery of Valuable Materials from Waste Tantalum Capacitors by Vacuum Pyrolysis Combined with Mechanical Physical Separation. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 2639-2647.	3.2	34
65	Key factors of eddy current separation for recovering aluminum from crushed e-waste. <i>Waste Management</i> , 2017, 60, 84-90.	3.7	34
66	An integrated capture of copper scrap and electrodeposition process to enrich and prepare pure palladium for recycling of spent catalyst from automobile. <i>Waste Management</i> , 2020, 108, 172-182.	3.7	33
67	Pyrolysis characteristics and pyrolysis products separation for recycling organic materials from waste liquid crystal display panels. <i>Journal of Hazardous Materials</i> , 2016, 302, 45-56.	6.5	32
68	Indium recovery from In-Sn-Cu-Al mixed system of waste liquid crystal display panels via acid leaching and two-step electrodeposition. <i>Journal of Hazardous Materials</i> , 2020, 381, 120973.	6.5	32
69	Recovery of palladium as nanoparticles from waste multilayer ceramic capacitors by potential-controlled electrodeposition. <i>Journal of Cleaner Production</i> , 2020, 257, 120370.	4.6	32
70	Assessment of precious metals positioning in waste printed circuit boards and the economic benefits of recycling. <i>Waste Management</i> , 2022, 139, 105-115.	3.7	31
71	Application of Chloride Metallurgy and Corona Electrostatic Separation for Recycling Waste Multilayer Ceramic Capacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 8390-8395.	3.2	30
72	Recycling Acetic Acid from Polarizing Film of Waste Liquid Crystal Display Panels by Sub/Supercritical Water Treatments. <i>Environmental Science & Technology</i> , 2015, 49, 5999-6008.	4.6	29

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73	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.	6.5	28
74	In-situ debromination mechanism based on self-activation and catalysis of Ca(OH) ₂ during pyrolysis of waste printed circuit boards. <i>Journal of Hazardous Materials</i> , 2020, 392, 122447.	6.5	28
75	Recycling of metals (Ga, In, As and Ag) from waste light-emitting diodes in sub/supercritical ethanol. <i>Resources, Conservation and Recycling</i> , 2020, 155, 104695.	5.3	28
76	Impact of the operating conditions on the derived products and the reaction mechanism in vacuum pyrolysis treatment of the organic material in waste integrated circuits. <i>Journal of Cleaner Production</i> , 2018, 197, 1488-1497.	4.6	27
77	C, H, Cl, and In Element Cycle in Wastes: Vacuum Pyrolysis of PVC Plastic To Recover Indium in LCD Panels and Prepare Carbon Coating. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 8918-8929.	3.2	26
78	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.	4.6	25
79	Pyrolysis mechanism for recycle renewable resource from polarizing film of waste liquid crystal display panels. <i>Journal of Hazardous Materials</i> , 2014, 278, 311-319.	6.5	24
80	Recycling waste tantalum capacitors to synthesize high value-added Ta ₂ O ₅ and polyaniline-decorated Ta ₂ O ₅ photocatalyst by an integrated chlorination-sintering-chemisorption process. <i>Journal of Cleaner Production</i> , 2020, 252, 117206.	4.6	24
81	Novel approach for metal separation from spent lithium ion batteries based on dry-phase conversion. <i>Journal of Cleaner Production</i> , 2020, 277, 122718.	4.6	24
82	Synthesis of oil-based resin using pyrolysis oil produced by debromination pyrolysis of waste printed circuit boards. <i>Journal of Cleaner Production</i> , 2018, 203, 645-654.	4.6	23
83	Emission characteristics and exposure assessment of particulate matter and polybrominated diphenyl ethers (PBDEs) from waste printed circuit boards de-soldering. <i>Science of the Total Environment</i> , 2019, 662, 530-536.	3.9	22
84	Compound tribo-electrostatic separation for recycling mixed plastic waste. <i>Journal of Hazardous Materials</i> , 2019, 367, 43-49.	6.5	22
85	Utilizing E-Waste for Construction of Magnetic and Core-Shell Z-Scheme Photocatalysts: An Effective Approach to E-Waste Recycling. <i>Environmental Science & Technology</i> , 2021, 55, 1279-1289.	4.6	22
86	Environmental friendly technology for aluminum electrolytic capacitors recycling from waste printed circuit boards. <i>Journal of Hazardous Materials</i> , 2017, 326, 1-9.	6.5	21
87	Hollow Aluminum Particle in Eddy Current Separation of Recovering Waste Toner Cartridges. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 161-167.	3.2	21
88	Recovery of palladium and silver from waste multilayer ceramic capacitors by eutectic capture process of copper and mechanism analysis. <i>Journal of Hazardous Materials</i> , 2020, 388, 122008.	6.5	21
89	Utilizing spent Li-ion batteries to regulate the π -conjugated structure of g-C ₃ N ₄ : a win-win approach for waste recycling and highly active photocatalyst construction. <i>Journal of Materials Chemistry A</i> , 2021, 9, 472-481.	5.2	21
90	Separation of metals from Ni-Cu-Ag-Pd-Bi-Sn multi-metal system of e-waste by leaching and stepwise potential-controlled electrodeposition. <i>Journal of Hazardous Materials</i> , 2021, 408, 124772.	6.5	21

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91	Emission of PAHs, PCBs, PBDEs and heavy metals in air, water and soil around a waste plastic recycling factory in an industrial park, Eastern China. <i>Chemosphere</i> , 2022, 294, 133734.	4.2	21
92	Energy and valuable resource recovery from waste liquid crystal display panels by an environment-friendly technological process: Pyrolysis of liquid crystals and preparation of indium product. <i>Journal of Cleaner Production</i> , 2017, 162, 141-152.	4.6	20
93	Pyrolysis-Based Technology for Recovering Copper from Transistors on Waste Printed Circuit Boards. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 11354-11361.	3.2	19
94	Novel utilization of pyrolysis products produced from waste printed circuit boards: catalytic cracking and synthesis of graphite carbon. <i>Journal of Cleaner Production</i> , 2019, 236, 117662.	4.6	19
95	Selective electrochemical extraction of copper from multi-metal e-waste leaching solution and its enhanced recovery mechanism. <i>Journal of Hazardous Materials</i> , 2021, 407, 124799.	6.5	19
96	Study on the remediation of tetracycline antibiotics and roxarsone contaminated soil. <i>Environmental Pollution</i> , 2021, 271, 116312.	3.7	19
97	Decomposition of high-impact polystyrene resin in e-waste by supercritical water oxidation process with debromination of decabromodiphenyl ethane and recovery of antimony trioxide simultaneously. <i>Journal of Hazardous Materials</i> , 2021, 402, 123684.	6.5	17
98	In Situ Recombination of Elements in Spent Lithium-Ion Batteries to Recover High-Value LiAlO_2 and LiAl_5O_8 . <i>Environmental Science & Technology</i> , 2021, 55, 7643-7653.	4.6	17
99	Continuous Removal of Nonmetallic Inclusions from Aluminum Melts by Means of Stationary Electromagnetic Field and DC Current. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2007, 38, 1104-1110.	1.1	16
100	Separating Criterion of Pb, Cd, Bi and Zn from Metallic Particles of Crushed Electronic Wastes by Vacuum Evaporation. <i>Separation Science and Technology</i> , 2012, 47, 913-919.	1.3	16
101	Health risk assessment of heavy metals (Cr, Ni, Cu, Zn, Cd, Pb) in circumjacent soil of a factory for recycling waste electrical and electronic equipment. <i>Journal of Material Cycles and Waste Management</i> , 2013, 15, 556-563.	1.6	16
102	Fabrication of magnetic zeolite coated with carbon fiber using pyrolysis products from waste printed circuit boards. <i>Journal of Cleaner Production</i> , 2019, 231, 1149-1157.	4.6	16
103	Leaching behavior of Sb and Br from E-waste flame retardant plastics. <i>Chemosphere</i> , 2020, 245, 125684.	4.2	16
104	Novel approach of in-situ nickel capture technology to recycle silver and palladium from waste nickel-rich multilayer ceramic capacitors. <i>Journal of Cleaner Production</i> , 2021, 290, 125650.	4.6	16
105	Targeted recovery of Ag-Pd alloy from polymetallic electronic waste leaching solution via green electrodeposition technology and its mechanism. <i>Separation and Purification Technology</i> , 2022, 280, 118944.	3.9	16
106	Recycling Spent LiCoO_2 Battery as a High-Efficient Lithium-Doped Graphitic Carbon Nitride/ Co_3O_4 Composite Photocatalyst and Its Synergistic Photocatalytic Mechanism. <i>Energy and Environmental Materials</i> , 2023, 6, .	7.3	16
107	TSP, PM10 and health risk assessment for heavy metals (Cr, Ni, Cu, Zn, Cd, Pb) in the ambience of the production line for waste cathode ray tube recycling. <i>Journal of Material Cycles and Waste Management</i> , 2016, 18, 296-302.	1.6	15
108	Towards minimization of secondary wastes: Element recycling to achieve future complete resource recycling of electronic wastes. <i>Waste Management</i> , 2019, 96, 175-180.	3.7	15

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109	<i>In situ</i> preparation of a Nb ⁴⁺ /Pb codoped and Pd loaded TiO ₂ photocatalyst from waste multi-layer ceramic capacitors by a chlorination-leaching process. <i>Green Chemistry</i> , 2019, 21, 874-884.	4.6	15
110	Thermodynamics, Kinetics Model, and Reaction Mechanism of Low-Vacuum Phosphate Reduction Process for Germanium Recovery from Optical Fiber Scraps. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 2176-2186.	3.2	15
111	Recycling Ag, As, Ga of waste light-emitting diodes via subcritical water treatment. <i>Journal of Hazardous Materials</i> , 2021, 408, 124409.	6.5	15
112	Unveiling the Control Mechanism of the Carbothermal Reduction Reaction for Waste Li-Ion Battery Recovery: Providing Instructions for Its Practical Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 9418-9425.	3.2	15
113	Facile indium recovery from waste liquid crystal displays: Chloride-facilitated indium electroreduction and stepwise Cu/MoO ₂ and indium electrodeposition. <i>Journal of Hazardous Materials</i> , 2021, 415, 125599.	6.5	15
114	Polybrominated diphenyl ethers in indoor air from two typical E-waste recycling workshops in Southern China: Emission, size-distribution, gas-particle partitioning, and exposure assessment. <i>Journal of Hazardous Materials</i> , 2021, 402, 123667.	6.5	14
115	Novel Electrodeposition Method for Cu-In-Cd-Ga Sequential Separation from Waste Solar Cell: Mechanism, Application, and Environmental Impact Assessment. <i>Environmental Science & Technology</i> , 2021, 55, 10724-10733.	4.6	14
116	Characteristics of unorganized emissions of microplastics from road fugitive dust in urban mining bases. <i>Science of the Total Environment</i> , 2022, 827, 154355.	3.9	14
117	Controllable Formation of Carbon Fiber in Pyrolysis Process of Liquid Crystals from Waste LCD Panels and Indium Recovery by Vacuum in Situ Reduction with Carbon Fiber. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 541-550.	3.2	13
118	Decomposition of Packaging Materials and Recycling GaAs from Waste ICs by Hydrothermal Treatment. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 14111-14118.	3.2	13
119	From Waste to Nb ⁴⁺ /Pb Codoped and Pd Loaded TiO ₂ /BaTiO ₃ Heterostructure: Highly Efficient Photocatalytic Performance. <i>ChemSusChem</i> , 2019, 12, 2819-2828.	3.6	13
120	Novel Recycle Technology for Recovering Gallium Arsenide from Scraped Integrated Circuits. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 2874-2882.	3.2	12
121	A novel approach for determining the accurate debromination time in the ball-milling process of nonmetallic particles from waste printed circuit boards by computation. <i>Journal of Hazardous Materials</i> , 2021, 410, 124611.	6.5	12
122	Green Combined Resource Recycling System for the Recycling of Waste Glass. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 7361-7368.	3.2	12
123	Analysis of contaminants and their formation mechanism in the desiccation-dissociation process of organic impurity of waste glass. <i>Journal of Hazardous Materials</i> , 2021, 416, 125881.	6.5	12
124	An ignored potential microplastic contamination of a typical waste glass recycling base. <i>Journal of Hazardous Materials</i> , 2022, 422, 126854.	6.5	12
125	An energy-saving and environment-friendly technology for debromination of plastic waste: Novel models of heat transfer and movement behavior of bromine. <i>Journal of Hazardous Materials</i> , 2022, 421, 126814.	6.5	11
126	Mechanism of Gold Cyanidation in Bioleaching of Precious Metals from Waste Printed Circuit Boards. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 18975-18981.	3.2	9

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127	Emission characteristics of polybrominated diphenyl ethers from the thermal disassembly of waste printed circuit boards. <i>Atmospheric Environment</i> , 2020, 226, 117402.	1.9	9
128	An impact crushing dynamic model of waste printed circuit board particles. <i>Research on Chemical Intermediates</i> , 2013, 39, 3611-3630.	1.3	8
129	In-situ reaction for recycling indium from waste liquid crystal display panels by vacuum reduction with pyrolytic carbon as reductant. <i>Waste Management</i> , 2019, 85, 538-547.	3.7	8
130	Decomposition of polycarbonate/acrylonitrile-butadiene-styrene blends in e-waste packaging resin and recovery of debrominated carbon materials by supercritical water oxidation process. <i>Journal of Hazardous Materials</i> , 2021, 404, 124056.	6.5	8
131	Arsenic Removal and Recovery of Germanium and Tungsten in Toxic Coal Fly Ash from Lignite by Vacuum Distillation with a Sulfurizing Reagent. <i>Environmental Science & Technology</i> , 2021, 55, 4027-4036.	4.6	8
132	Distribution of heavy metals and release mechanism for respirable fine particles incineration ashes from lignite. <i>Resources, Conservation and Recycling</i> , 2021, 166, 105282.	5.3	7
133	Motion Behavior Model and Multistage Magnetic Separation Method for the Removal of Impurities from Recycled Waste Plastics. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 10920-10928.	3.2	7
134	Ammonia Reduction System for the Diversity of Cathode Processing of Li-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 12091-12099.	3.2	7
135	Thermal desorption behavior of fluoroquinolones in contaminated soil of livestock and poultry breeding. <i>Environmental Research</i> , 2022, 211, 113101.	3.7	7
136	One-Pot Synthesis of GeAs Ultrafine Particles from Coal Fly Ash by Vacuum Dynamic Flash Reduction and Inert Gas Condensation. <i>Scientific Reports</i> , 2017, 7, 3641.	1.6	6
137	Recovering Polyethylene Glycol Terephthalate and Ethylene-Vinyl Acetate Copolymer in Waste Solar Cells via a Novel Vacuum-Gasification-Condensation Process. <i>ACS ES&T Engineering</i> , 2021, 1, 357-362.	3.7	6
138	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
139	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.	2.2	5
140	Unveiling the Release Mechanism of Pollutants during the Crushing Process of Waste Printed Circuit Boards. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 14540-14548.	3.2	5
141	Fate and migration of polybrominated diphenyl ethers in a workshop for waste printed circuit board de-soldering. <i>Environmental Science and Pollution Research</i> , 2020, 27, 30342-30351.	2.7	5
142	Behavior of enrichment and migration path of Cu ²⁺ –Ag ⁺ –Pd ²⁺ –Bi ³⁺ –Pb in the recovery of waste multilayer ceramic capacitors by eutectic capture of copper. <i>Journal of Cleaner Production</i> , 2021, 287, 125469.	4.6	5
143	Hydrothermal Leaching Behavior of Manganese from Waste Zn ²⁺ –Mn Dry Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 3137-3144.	3.2	5
144	Process simulation of Ohno continuous casting for single crystal copper prepared from scrap copper in waste printed circuit boards. <i>Waste Management</i> , 2021, 124, 94-101.	3.7	5

#	ARTICLE	IF	CITATIONS
145	Analysis of the Products and Decomposition Mechanisms of the Different Organic Impurities in Waste Glass during the Heat-Desiccation Dissociation Process. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 10642-10650.	3.2	5
146	Renewable redox couple system for sustainable precious metal recycling from e-waste via halide-regulated potential inversion. <i>Journal of Hazardous Materials</i> , 2021, 420, 126568.	6.5	5
147	Thermal defluorination behaviors of PFOS, PFOA and PFBS during regeneration of activated carbon by molten salt. <i>Frontiers of Environmental Science and Engineering</i> , 2022, 16, 1.	3.3	5
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159	Production of an austenitic steel matrix composite reinforced by in-situ nodular eutectic: the role of Si. <i>Journal of Materials Science</i> , 2008, 43, 6020-6023.	1.7	0