

Jialiang Zhang

List of Publications by Year in descending order

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13
papers

1,345
citations

759233

12
h-index

1125743

13
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docs citations

13
times ranked

976
citing authors

#	ARTICLE	IF	CITATIONS
1	Facile and efficient recovery of lithium from spent LiFePO_4 batteries via air oxidation-water leaching at room temperature. <i>Green Chemistry</i> , 2022, 24, 152-162.	9.0	84
2	An advanced strategy of hydrometallurgy before sorting for recycling spent entire ternary lithium-ion batteries. <i>Journal of Cleaner Production</i> , 2022, 361, 132268.	9.3	29
3	A breakthrough method for the recycling of spent lithium-ion batteries without pre-sorting. <i>Green Chemistry</i> , 2021, 23, 8434-8440.	9.0	30
4	Recovery of valuable metals from spent $\text{LiNi}_{1-x}\text{Co}_x\text{Mn}_{1-2x}\text{O}_2$ cathode material via phase transformation and stepwise leaching. <i>Separation and Purification Technology</i> , 2021, 267, 118609.	7.9	46
5	Direct Regeneration of Spent LiFePO_4 Cathode Material by a Green and Efficient One-Step Hydrothermal Method. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 17622-17628.	6.7	96
6	E-pH Diagrams for the Li-Fe-P-H ₂ O System from 298 to 473 K: Thermodynamic Analysis and Application to the Wet Chemical Processes of the LiFePO_4 Cathode Material. <i>Journal of Physical Chemistry C</i> , 2019, 123, 14207-14215.	3.1	63
7	Fundamental Theory of Biodegradable Metals—Definition, Criteria, and Design. <i>Advanced Functional Materials</i> , 2019, 29, 1805402.	14.9	226
8	Sustainable and Facile Method for the Selective Recovery of Lithium from Cathode Scrap of Spent LiFePO_4 Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 5626-5631.	6.7	188
9	Efficient Phase Transformation of Al_2O_3 to Al_2O_3 in Spent Hydrodesulphurization Catalyst by Microwave Roasting Method. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 1495-1501.	3.7	25
10	Efficient Recovery of Copper and Cobalt from the Matte-Slag Mixture of ISA Furnace by Injection of Coke and Pyrite. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2018, 49, 3118-3126.	2.1	6
11	Efficient and economical recovery of lithium, cobalt, nickel, manganese from cathode scrap of spent lithium-ion batteries. <i>Journal of Cleaner Production</i> , 2018, 204, 437-446.	9.3	166
12	Novel geochemistry-inspired method for the deep removal of vanadium from molybdate solution. <i>Journal of Hazardous Materials</i> , 2017, 331, 210-217.	12.4	15
13	A promising approach for the recovery of high value-added metals from spent lithium-ion batteries. <i>Journal of Power Sources</i> , 2017, 351, 192-199.	7.8	371