

# Intelligence-assisted predesign for the sustainable recycling beyond

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Sustainable Recycling of Electrode Materials in Spent Li-Ion Batteries through Direct Regeneration Processes. ACS ES&T Engineering, 2022, 2, 586-605.	7.6	37
2	Dry electrode technology, the rising star in solid-state battery industrialization. Matter, 2022, 5, 876-898.	10.0	108
3	A critical review on tackling complex rare earth supply security problem. Resources Policy, 2022, 77, 102697.	9.6	8
4	Toward practical lithium-ion battery recycling: adding value, tackling circularity and recycling-oriented design. Energy and Environmental Science, 2022, 15, 2732-2752.	30.8	110
5	Surface Growth and Intergranular Separation of Polycrystalline Particles for Regeneration of Stable Single-Crystal Cathode Materials. ACS Applied Materials & Interfaces, 2022, 14, 29886-29895.	8.0	17
6	Progress, Key Issues, and Future Prospects for Li-Ion Battery Recycling. Global Challenges, 2022, 6, .	3.6	56
7	A critical review of the circular economy for lithium-ion batteries and photovoltaic modules â€“ status, challenges, and opportunities. Journal of the Air and Waste Management Association, 2022, 72, 478-539.	1.9	16
8	Prospects for managing end-of-life lithium-ion batteries: Present and future. , 2022, 1, 417-433.		66
9	Advances in Intelligent Regeneration of Cathode Materials for Sustainable Lithium-Ion Batteries. Advanced Energy Materials, 2022, 12, .	19.5	34
10	Power management strategy for unidirectional current pulsed triboelectric nanogenerator. Nanotechnology, 2022, 33, 465401.	2.6	3
11	Start from the source: direct treatment of a degraded LiFePO <sub>4</sub> cathode for efficient recycling of spent lithium-ion batteries. Green Chemistry, 2022, 24, 7448-7457.	9.0	18
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14	Adaptable Eutectic Salt for the Direct Recycling of Highly Degraded Layer Cathodes. Journal of the American Chemical Society, 2022, 144, 20306-20314.	13.7	76
15	How to Promote the Industrial Application of SiO <sub>x</sub> Anode Prelithiation: Capability, Accuracy, Stability, Uniformity, Cost, and Safety. Advanced Energy Materials, 2022, 12, .	19.5	22
16	Comprehensive recycling of lithium-ion batteries: Fundamentals, pretreatment, and perspectives. Energy Storage Materials, 2023, 54, 172-220.	18.0	50
17	Reevaluating Flexible Lithium-Ion Batteries from the Insights of Mechanics and Electrochemistry. Electrochemical Energy Reviews, 2022, 5, .	25.5	11
18	Recent Progress in High-Voltage Aqueous Zinc-Based Hybrid Redox Flow Batteries. Chemistry - an Asian Journal, 2023, 18, .	3.3	1

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19	A Future Perspective on Waste Management of Lithium-Ion Batteries for Electric Vehicles in Lao PDR: Current Status and Challenges. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 16169.	2.6	4
20	Roadmap for a sustainable circular economy in lithium-ion and future battery technologies. <i>JPhys Energy</i> , 2023, 5, 021501.	5.3	16
21	Health prognostics for lithium-ion batteries: mechanisms, methods, and prospects. <i>Energy and Environmental Science</i> , 2023, 16, 338-371.	30.8	66
22	Design of Phosphide Anodes Harvesting Superior Sodium Storage: Progress, Challenges, and Perspectives. <i>Advanced Functional Materials</i> , 2023, 33, .	14.9	30
23	Leveraging blockchain technology for resilient and robust frequency control in a renewable-based hybrid power system with hydrogen and battery storage integration. <i>Energy Conversion and Management</i> , 2023, 283, 116888.	9.2	5
24	Heterointerface construction of carbon coated cobalt-iron phosphide space-confined in hollow porous carbon balls to promote internal/external sodium storage kinetics. <i>Journal of Electroanalytical Chemistry</i> , 2023, 932, 117219.	3.8	1
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26	Complementary combination of lithium protection strategies for robust and longevous lithium metal batteries. <i>Energy Storage Materials</i> , 2023, 57, 229-248.	18.0	16
27	Sustainable Regeneration of Spent Graphite as a Cathode Material for a High-Performance Dual-Ion Battery. <i>ACS Sustainable Chemistry and Engineering</i> , 2023, 11, 4308-4316.	6.7	10
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29	Powering battery sustainability: a review of the recent progress and evolving challenges in recycling lithium-ion batteries. , 0, 2, .		3
30	Toward Sustainable All Solid-State Li-Metal Batteries: Perspectives on Battery Technology and Recycling Processes. <i>Advanced Materials</i> , 2023, 35, .	21.0	14
31	Advanced Anode Materials Based on Iron Oxides for Lithium-Ion Batteries. <i>Nano</i> , 2023, 18, .	1.0	1
32	Direct Conversion of Waste Battery Cathodes to High-Volumetric-Capacity Anodes with Assembled Secondary-Particle Morphology. <i>Advanced Energy Materials</i> , 2023, 13, .	19.5	9
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34	Designing lithium-ion batteries for recycle: The role of adhesives. , 2023, 1, 100023.		4
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36	Recycling Spent Lithium-Ion Batteries Using Waste Benzene-Containing Plastics: Synergetic Thermal Reduction and Benzene Decomposition. <i>Environmental Science &amp; Technology</i> , 2023, 57, 7599-7611.	10.0	10

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38	Technological penetration and carbon-neutral evaluation of rechargeable battery systems for large-scale energy storage. <i>Journal of Energy Storage</i> , 2023, 69, 107917.	8.1	3
39	Considerable molecular interactions enable robust electrochemical properties: hydrogen bonds in lithium-ion batteries. <i>Science China Chemistry</i> , 2023, 66, 1905-1923.	8.2	1
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42	A closed-loop supply chain operation decision under life cycle: Ecological design, service design and recycling effort perspectives. <i>RAIRO - Operations Research</i> , 2024, 58, 341-371.	1.8	0
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51	Mechanics and electrochemistry in nature-inspired functional batteries: fundamentals, configurations and devices. <i>Energy and Environmental Science</i> , 2024, 17, 974-1006.	30.8	0
52	Examining green-sustainable approaches for recycling of lithium-ion batteries. , 2024, 3, 100034.		0
53	Conductive composite binder for recyclable LiFePO <sub>4</sub> cathode. <i>Chinese Chemical Letters</i> , 2023, , 109389.	9.0	2
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55	Engineering Dry Electrode Manufacturing for Sustainable Lithium-Ion Batteries. Batteries, 2024, 10, 39.	4.5	0
56	Recent advances in all-solid-state batteries for commercialization. Materials Chemistry Frontiers, 2024, 8, 1861-1887.	5.9	0
57	Fe(III)/Fe(II) Redox-Based Lithium Extraction/Recovery from Liquid- and Solid-Phase Lithium Resources. ACS Energy Letters, 2024, 9, 758-767.	17.4	0
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