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Journal Information

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Classification History

Year	A+	A	B	C
2026		✓	✓	
2025		✓	✓	
2024		✓	✓	
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2021/2022		✓	✓	
2020		✓	✓	
2019	✓	✓	✓	
2018		✓		

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Recent Articles

Directional construction of pyrrolic nitrogen via furan-based polyurethane for high-rate and high-capacity hard carbon anodes in sodium-ion batteries
2027-1 Vol. 124 Pages 246-253
Authors: Yuzhu Lin, Tingting Liu, Lizhi Xu et al.
DOI: 10.1016/j.jechem.2026.08.083

Upcycling spent graphite with tailored interfacial potential and SEI composition for ultra-fast charging performance
2027-1 Vol. 124 Pages 469-479
Authors: Zeyu Dong, Jiexiang Li, Jiale Zhang et al.
DOI: 10.1016/j.jechem.2026.08.106

Cathode engineering for all-solid-state lithium-selenium batteries: Recent advances and future directions
2027-1 Vol. 124 Pages 105-123
Authors: Zemin He, Tao Shen, Yanqing Zhang et al.
DOI: 10.1016/j.jechem.2026.08.089

Optimized oxygen defect engineering enabling efficient alkaline hydrogen evolution on Ru/MoO2−x
2027-1 Vol. 124 Pages 630-642
Authors: Jia Sun, Chunyu Zhang, Hang Song et al.
DOI: 10.1016/j.jechem.2026.09.049

Irreversible aging of graphite anodes triggered by ambient moisture: mechanistic insights from atmosphere-controlled operando studies
2027-1 Vol. 124 Pages 730-739
Authors: Caixia Meng, Chao Wang, Shiwen Li et al.
DOI: 10.1016/j.jechem.2026.09.056

Selective upcycling of dilute nitric oxide to ammonia over porous defect-engineered Cu2O
2027-1 Vol. 124 Pages 740-749
Authors: Yaoyu Zhang, Yuqin Zhong, Zheng Chen et al.
DOI: 10.1016/j.jechem.2026.09.044

Suppressing Jahn-Teller distortion in LiNi0.5Mn1.5O4 cathodes via lanthanide-mediated orbital occupancy engineering
2027-1 Vol. 124 Pages 759-770
Authors: Bao Zhang, Zhen Liang, Quanyi Zhang et al.
DOI: 10.1016/j.jechem.2026.09.046

Unveiling the enthalpy–entropy compensation effect in solid-state electrolytes for robust lithium metal batteries
2027-1 Vol. 124 Pages 488-497
Authors: Dengji Xiao, Houfu Tu, Dedong Shan et al.
DOI: 10.1016/j.jechem.2026.09.026

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2027-1 Vol. 124 Pages 415-426
Authors: Shurui Xu, Shanshan Liu, Qilin Shuai et al.
DOI: 10.1016/j.jechem.2026.08.101

Failure mechanisms of lithium-ion batteries based on NCM cathodes: From material failure to the effects of operating conditions
2027-1 Vol. 124 Pages 154-188
Authors: Tao Zhang, Kaihang Wang, Wenhao Gong et al.
DOI: 10.1016/j.jechem.2026.08.090