**Solid-State Batteries (2022-2024)**

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1. **Stable Cycling of All-Solid-State Lithium Batteries Enabled by Cyano-Molecular Diamond Improved Polymer Electrolytes (Article)**

Yang Dai, Mengbing Zhuang, Yi-Xiao Deng, Yuan Liao, Jian Gu, Tinglu Song, Hao Yan & Jin-Cheng Zheng

Nano-Micro Lett. 16, 217 (2024). <https://doi.org/10.1007/s40820-024-01415-3>

1. **12.6 μm-Thick Asymmetric Composite Electrolyte with Superior Interfacial Stability for Solid-State Lithium-Metal Batteries (Article)**

Zheng Zhang, Jingren Gou, Kaixuan Cui, Xin Zhang, Yujian Yao, Suqing Wang & Haihui Wang

Nano-Micro Lett. 16, 181 (2024).<https://doi.org/10.1007/s40820-024-01389-2>

1. **Advances in All-Solid-State Lithium–Sulfur Batteries for Commercialization (Review**

Birhanu Bayissa Gicha, Lemma Teshome Tufa, Njemuwa Nwaji, Xiaojun Hu & Jaebeom Lee

 Nano-Micro Lett. 16, 172 (2024). <https://doi.org/10.1007/s40820-024-01385-6>

1. **PDOL-Based Solid Electrolyte Toward Practical Application: Opportunities and Challenges (Review)**

Hua Yang, Maoxiang Jing, Li Wang, Hong Xu, Xiaohong Yan & Xiangming He

Nano-Micro Lett. 16, 127 (2024). <https://doi.org/10.1007/s40820-024-01354-z>

1. **Enhanced High-Temperature Cycling Stability of Garnet-Based All Solid-State Lithium Battery Using a Multi-Functional Catholyte Buffer Layer (Article)**

Leqi Zhao, Yijun Zhong, Chencheng Cao, Tony Tang & Zongping Shao

Nano-Micro Lett. 16, 124 (2024). <https://doi.org/10.1007/s40820-024-01358-9>

1. **Highly Efficient Aligned Ion-Conducting Network and Interface Chemistries for Depolarized All-Solid-State Lithium Metal Batteries (Article)**

Yongbiao Mu, Shixiang Yu, Yuzhu Chen, Youqi Chu, Buke Wu, Qing Zhang, Binbin Guo, Lingfeng Zou, Ruijie Zhang, Fenghua Yu, Meisheng Han, Meng Lin, Jinglei Yang, Jiaming Bai & Lin Zeng

Nano-Micro Lett. 16, 86 (2024). <https://doi.org/10.1007/s40820-023-01301-4>

1. **Construction of a High-Performance Composite Solid Electrolyte Through In-Situ Polymerization within a Self-Supported Porous Garnet Framework (Article)**

An-Giang Nguyen, Min-Ho Lee, Jaekook Kim & Chan-Jin Park

Nano-Micro Lett. 16, 83 (2024). <https://doi.org/10.1007/s40820-023-01294-0>

1. **A Review on Engineering Design for Enhancing Interfacial Contact in Solid-State Lithium–Sulfur Batteries (Review)**

Bingxin Qi, Xinyue Hong, Ying Jiang, Jing Shi, Mingrui Zhang, Wen Yan & Chao Lai

Nano-Micro Lett. 16, 71 (2024). <https://doi.org/10.1007/s40820-023-01306-z>

1. **From Liquid to Solid-State Lithium Metal Batteries: Fundamental Issues and Recent Developments (Review)**

Zhao Zhang & Wei-Qiang Han

Nano-Micro Lett. 16, 24 (2024). <https://doi.org/10.1007/s40820-023-01234-y>

1. **High-Entropy Layered Oxide Cathode Enabling High-Rate for Solid-State Sodium-Ion Batteries (Article)**

Tianxun Cai, Mingzhi Cai, Jinxiao Mu, Siwei Zhao, Hui Bi, Wei Zhao, Wujie Dong & Fuqiang Huang

Nano-Micro Lett. 16, 10 (2024). <https://doi.org/10.1007/s40820-023-01232-0>

1. **Elucidating Ion Transport Phenomena in Sulfide/Polymer Composite Electrolytes for Practical Solid-State Batteries (Article)**

Kyeong-Seok Oh, Ji Eun Lee, Yong-Hyeok Lee, Yi-Su Jeong, Imanuel Kristanto, Hong-Seok Min, Sang-Mo Kim, Young Jun Hong, Sang Kyu Kwak & Sang-Young Lee

Nano-Micro Lett. 15, 179 (2023). <https://doi.org/10.1007/s40820-023-01139-w>

1. **Sulfide-Based All-Solid-State Lithium–Sulfur Batteries: Challenges and Perspectives (Perspective)**

Xinxin Zhu, Liguang Wang, Zhengyu Bai, Jun Lu & Tianpin Wu

Nano-Micro Lett. 15, 75 (2023). <https://doi.org/10.1007/s40820-023-01053-1>

1. **All-Solid-State Thin-Film Lithium-Sulfur Batteries (Original Article)**

Renming Deng, Bingyuan Ke, Yonghui Xie, Shoulin Cheng, Congcong Zhang, Hong Zhang, Bingan Lu & Xinghui Wang

Nano-Micro Lett. 15, 73 (2023). <https://doi.org/10.1007/s40820-023-01064-y>

1. **Tailoring Practically Accessible Polymer/Inorganic Composite Electrolytes for All-Solid-State Lithium Metal Batteries: A Review (Review)**

Hongmei Liang, Li Wang, Aiping Wang, Youzhi Song, Yanzhou Wu, Yang Yang & Xiangming He

Nano-Micro Lett. 15, 42 (2023). [https://doi.org/10.1007/s40820-022-00996-1](%20https:/doi.org/10.1007/s40820-022-00996-1)

1. **Insights Into the Interfacial Degradation of High-Voltage All-Solid-State Lithium Batteries (Article)**

Jiawen Li, Yuchen Ji, Haoran Song, Shiming Chen, Shouxiang Ding, Bingkai Zhang, Luyi Yang, Yongli Song & Feng Pan

Nano-Micro Lett. 14, 191 (2022). <https://doi.org/10.1007/s40820-022-00936-z>