

Polymer Nanomaterials (2022-2024)

Browse in the web

- 1. In Situ Polymer Gel Electrolyte in Boosting Scalable Fibre Lithium Battery Applications (Highlight)**
Jie Luo & Qichong Zhang
Nano-Micro Lett. 16, 230 (2024). <https://doi.org/10.1007/s40820-024-01451-z>
- 2. 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>
- 3. Nano/Micro-Structural Supramolecular Biopolymers: Innovative Networks with the Boundless Potential in Sustainable Agriculture (Review)**
Roohallah Saberi Riseh, Mohadeseh Hassanisaadi, Masoumeh Vatankhah, Rajender S. Varma & Vijay Kumar Thakur
Nano-Micro Lett. 16, 147 (2024). <https://doi.org/10.1007/s40820-024-01348-x>
- 4. 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>
- 5. Highly Elastic, Bioresorbable Polymeric Materials for Stretchable, Transient Electronic Systems (Article)**
Jeong-Woong Shin, Dong-Je Kim, Tae-Min Jang, Won Bae Han, Joong Hoon Lee, Gwan-Jin Ko, Seung Min Yang, Kaveti Rajaram, Sungkeun Han, Heeseok Kang, Jun Hyeon Lim, Chan-Hwi Eom, Amay J. Bandodkar & Suk-Won Hwang
Nano-Micro Lett. 16, 102 (2024). <https://doi.org/10.1007/s40820-023-01268-2>
- 6. A Stable Open-Shell Conjugated Diradical Polymer with Ultra-High Photothermal Conversion Efficiency for NIR-II Photo-Immunotherapy of Metastatic Tumor (Article)**
Yijian Gao, Ying Liu, Xiliang Li, Hui Wang, Yuliang Yang, Yu Luo, Yingpeng Wan, Chun-sing Lee, Shengliang Li & Xiao-Hong Zhang
Nano-Micro Lett. 16, 21 (2024). <https://doi.org/10.1007/s40820-023-01219-x>
- 7. All-Polymer Solar Cells and Photodetectors with Improved Stability Enabled by Terpolymers Containing Antioxidant Side Chains(Article)**
Chunyang Zhang, Ao Song, Qiri Huang, Yunhao Cao, Zuiyi Zhong, Youcai Liang, Kai Zhang, Chunchen Liu, Fei Huang & Yong Cao
Nano-Micro Lett. 15, 140 (2023). <https://doi.org/10.1007/s40820-023-01114-5>
- 8. The Critical Role of Fillers in Composite Polymer Electrolytes for Lithium Battery (Review)**

Xueying Yang, Jiayang Liu, Nanbiao Pei, Zhiqiang Chen, Ruiyang Li, Lijun Fu, Peng Zhang & Jinbao Zhao

Nano-Micro Lett. 15, 74 (2023). <https://doi.org/10.1007/s40820-023-01051-3>

9. Pushing the Electrochemical Performance Limits of Polypyrrole Toward Stable Microelectronic Devices (Article)

Muhammad Tahir, Liang He, Lihong Li, Yawei Cao, Xiaoxia Yu, Zehua Lu, Xiaoqiao Liao, Zeyu Ma & Yanlin Song

Nano-Micro Lett. 15, 49 (2023). <https://doi.org/10.1007/s40820-023-01027-3>

10. Correlating the Interfacial Polar-Phase Structure to the Local Chemistry in Ferroelectric Polymer Nanocomposites by Combined Scanning Probe Microscopy (Article)

Jiajie Liang, Shaojie Wang, Zhen Luo, Jing Fu, Jun Hu, Jinliang He & Qi Li

Nano-Micro Lett. 15, 5 (2023). <https://doi.org/10.1007/s40820-022-00978-3>

11. High-Transconductance, Highly Elastic, Durable and Recyclable All-Polymer Electrochemical Transistors with 3D Micro-Engineered Interfaces (Article)

Wenjin Wang, Zhaoxian Li, Mancheng Li, Lvye Fang, Fubin Chen, Songjia Han, Liuyuan Lan, Junxin Chen, Qize Chen, Hongshang Wang, Chuan Liu, Yabin Yang, Wan Yue & Zhuang Xie

Nano-Micro Lett. 14, 184 (2022). <https://doi.org/10.1007/s40820-022-00930-5>

12. Touch-Responsive Hydrogel for Biomimetic Flytrap-Like Soft Actuator (Article)

Junjie Wei, Rui Li, Long Li, Wenqin Wang & Tao Chen

Nano-Micro Lett. 14, 182 (2022). <https://doi.org/10.1007/s40820-022-00931-4>

13. Vertical Alignment of Anisotropic Fillers Assisted by Expansion Flow in Polymer Composites (Article)

Hongyu Niu, Haichang Guo, Lei Kang, Liucheng Ren, Ruicong Lv & Shulin Bai

Nano-Micro Lett. 14, 153 (2022). <https://doi.org/10.1007/s40820-022-00909-2>

14. High Conduction Band Inorganic Layers for Distinct Enhancement of Electrical Energy Storage in Polymer Nanocomposites (Article)

Yingke Zhu, Zhonghui Shen, Yong Li, Bin Chai, Jie Chen, Pingkai Jiang & Xingyi Huang

Nano-Micro Lett. 14, 151 (2022). <https://doi.org/10.1007/s40820-022-00902-9>

15. Porous and Ultra-Flexible Crosslinked MXene/Polyimide Composites for Multifunctional Electromagnetic Interference Shielding (Article)

Zhi-Hui Zeng, Na Wu, Jing-Jiang Wei, Yun-Fei Yang, Ting-Ting Wu, Bin Li, Stefanie Beatrice Hauser, Wei-Dong Yang, Jiu-Rong Liu and Shan-Yu Zhao

Nano-Micro Lett. 14, 59 (2022). <https://doi.org/10.1007/s40820-022-00800-0>

16. Superinsulating BNNS/PVA Composite Aerogels with High Solar Reflectance for Energy-Efficient Buildings (Article)

Jie Yang, Kit-Ying Chan, Harun Venkatesan, Eunyoung Kim, Miracle Hope Adegun, Jeng-Hun Lee, Xi Shen and Jang-Kyo Kim

Nano-Micro Lett. 14, 54 (2022). <https://doi.org/10.1007/s40820-022-00797-6>

- 17. High-Efficiency Electromagnetic Interference Shielding of rGO@FeNi/Epoxy Composites with Regular Honeycomb Structures (Article)**
Ping Song, Zhonglei Ma, Hua Qiu, Yifan Ru and Junwei Gu
Nano-Micro Lett. 14, 51 (2022). <https://doi.org/10.1007/s40820-022-00798-5>
- 18. “Toolbox” for the Processing of Functional Polymer Composites (Review)**
Yun Wei, Hongju Zhou, Hua Deng, Wenjing Ji, Ke Tian, Zhuyu Ma, Kaiyi Zhang and Qiang Fu
Nano-Micro Lett. 14, 35 (2022). <https://doi.org/10.1007/s40820-021-00774-5>
- 19. Hierarchically Multifunctional Polyimide Composite Films with Strongly Enhanced Thermal Conductivity (Article)**
Yongqiang Guo, Hua Qiu, Kunpeng Ruan, Yali Zhang and Junwei Gu
Nano-Micro Lett. 14, 26 (2022). <https://doi.org/10.1007/s40820-021-00767-4>
- 20. Layered Foam/Film Polymer Nanocomposites with Highly Efficient EMI Shielding Properties and Ultralow Reflection (Article)**
Li Ma, Mahdi Hamidinejad, Biao Zhao, Caiyun Liang and Chul B. Park
Nano-Micro Lett. 14, 19 (2022). <https://doi.org/10.1007/s40820-021-00759-4>
- 21. Air-Stable Ultrabright Inverted Organic Light-Emitting Devices with Metal Ion-Chelated Polymer Injection Layer (Article)**
Shihao Liu, Chunxiu Zang, Jiaming Zhang, Shuang Tian, Yan Wu, Dong Shen, Letian Zhang, Wenfa Xie and Chun-Sing Lee
Nano-Micro Lett. 14, 14 (2022). <https://doi.org/10.1007/s40820-021-00745-w>