**Polymer Nanomaterials (2022-2024)**

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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>

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. **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>

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. **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

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1. **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>

1. **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](%20https:/doi.org/10.1007/s40820-023-01114-5)

1. **The Critical Role of Fillers in Composite Polymer Electrolytes for Lithium Battery (Review)**

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

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1. **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>

1. **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

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1. **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>

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

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

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1. **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>

1. **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>

1. **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>

1. **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>

1. **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>

1. **“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>

1. **Hierarchically Multifunctional Polyimide Composite Films with Strongly Enhanced Thermal Conductivity (Article)**

Yongqiang Guo, Hua Qiu, Kunpeng Ruan, Yali Zhang and Junwei Gu

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1. **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

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1. **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

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