

Metal-Organic Frameworks

- 1. Metal–Organic Framework Materials for Electrochemical Supercapacitors (REVIEW)**
Ziwei Cao, Roya Momen, Shusheng Tao, Dengyi Xiong, Zirui Song, Xuhuan Xiao, Wentao Deng, Hongshuai Hou, Sedat Yasar, Sedar Altin, Faith Bulut, Guoqiang Zou
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- 2. MOF-Transformed In₂O_{3-x}@C Nanocorn Electrocatalyst for Efficient CO₂ Reduction to HCOOH (ARTICLE)**
Chen Qiu, Kun Qian, Jun Yu, Mingzi Sun, Shoufu Cao, Jinqiang Gao, Rongxing Yu, Lingzhe Fang, Youwei Yao, Xiaoqing Lu, Tao Li, Bolong Huang & Shihe Yang
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- 3. MOF-Derived Co and Fe Species Loaded on N-Doped Carbon Networks as Efficient Oxygen Electrocatalysts for Zn-Air Batteries (ARTICLE)**
Yuanyuan Xue, Yibo Guo, Qinming Zhang, Zhaojun Xie, Jinping Wei & Zhen Zhou
Nano-Micro Lett. 14, 162 (2022). <https://doi.org/10.1007/s40820-022-00890-w>
- 4. Azobenzene-Based Solar Thermal Fuels: A Review (REVIEW)**
Bo Zhang, Yiyu Feng & Wei Feng
Nano-Micro Lett. 14, 138 (2022). <https://doi.org/10.1007/s40820-022-00876-8>
- 5. Ultralight Magnetic and Dielectric Aerogels Achieved by Metal–Organic Framework Initiated Gelation of Graphene Oxide for Enhanced Microwave Absorption (ARTICLE)**
Xiaogu Huang, Jiawen Wei, Yunke Zhang, BinBin Qian, Qi Jia, Jun Liu, Xiaojia Zhao & Gaofeng Shao
Nano-Micro Lett. 14, 107 (2022). <https://doi.org/10.1007/s40820-022-00851-3>
- 6. State of the Art and Prospects in Metal-Organic Framework-Derived Microwave Absorption Materials (REVIEW)**
Shuning Ren, Haojie Yu, Li Wang, Zhikun Huang, Tengfei Lin, Yudi Huang, Jian Yang, Yichuan Hong & Jinyi Liu
Nano-Micro Lett. 14, 68 (2022). <https://doi.org/10.1007/s40820-022-00808-6>
- 7. MOF-Derived CoSe₂@N-Doped Carbon Matrix Confined in Hollow Mesoporous Carbon Nanospheres as High-Performance Anodes for Potassium-Ion Batteries (ARTICLE)**
Su Hyun Yang, Seung-Keun Park, Yun Chan Kang
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- 8. Controlled Assembly of Luminescent Lanthanide–Organic Frameworks via Post-Treatment of 3D-Printed Objects (ARTICLE)**
Jiahui Huang, Peiyi Wu
Nano-Micro Lett. 13, 15 (2021). <https://doi.org/10.1007/s40820-020-00543-w>
- 9. Ternary MOF-Based Redox Active Sites Enabled 3D-on-2D Nanoarchitected Battery-Type Electrodes for High-Energy-Density Supercapatteries (ARTICLE)**
Goli Nagaraju, Chandra Sekhar, Bhimanaboina Ramulu, Sk. Khaja Hussain, D. Narsimulu, Jae Su Yu
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10. **MOFs-Based Nitric Oxide Therapy for Tendon Regeneration (ARTICLE)**
Jun Chen, Dandan Sheng, Ting Ying, Haojun Zhao, Jian Zhang, Yunxia Li, He Xu, Shiyi Chen
Nano-Micro Lett. 13, 23 (2021). <https://doi.org/10.1007/s40820-020-00542-x>
11. **Remote Tracking Gas Molecular via the Standalone-Like Nanosensor-Based Tele-Monitoring System (ARTICLE)**
Han Jin, Junkan Yu, Daxiang Cui, Shan Gao, Hao Yang, Xiaowei Zhang, Changzhou Hua, Shengsheng Cui, Cuili Xue, Yuna Zhang, Yuan Zhou, Bin Liu, Wenfeng Shen, Shengwei Deng, Wanlung Kam, Waifung Cheung
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12. **Dimensional Gradient Structure of CoSe₂@CNTs-MXene Anode Assisted by Ether for High-Capacity, Stable Sodium Storage (ARTICLE)**
Enze Xu, Pengcheng Li, Junjie Quan, Hanwen Zhu, Li Wang, Yajing Chang, Zhenjie Sun, Lei Chen, Dabin Yu, Yang Jiang
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13. **Armoring Black Phosphorus Anode with Stable Metal–Organic-Framework Layer for Hybrid K-Ion Capacitors (ARTICLE)**
Mengzhu Xu, Yutong Feng, Bingjie Chen, Ruijin Meng, Mengting Xia, Feng Gu, Donglei Yang, Chi Zhang, Jinhua Yang
Nano-Micro Lett. 13, 42 (2021). <https://doi.org/10.1007/s40820-020-00570-7>
14. **Hierarchical Magnetic Network Constructed by CoFe Nanoparticles Suspended Within “Tubes on Rods” Matrix Toward Enhanced Microwave Absorption (ARTICLE)**
Chunyang Xu, Lei Wang, Xiao Li, Xiang Qian, Zhengchen Wu, Wenbin You, Ke Pei, Gang Qin, Qingwen Zeng, Ziqi Yang, Chen Jin, Renchao Che
Nano-Micro Lett. 13, 47 (2021). <https://doi.org/10.1007/s40820-020-00572-5>
15. **Laser Synthesis and Microfabrication of Micro/Nanostructured Materials Toward Energy Conversion and Storage (REVIEW)**
Lili Zhao, Zhen Liu, Duo Chen, Fan Liu, Zhiyuan Yang, Xiao Li, Haohai Yu, Hong Liu, Weijia Zhou
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16. **A Review on Metal–Organic Framework-Derived Porous Carbon-Based Novel Microwave Absorption Materials (REVIEW)**
Zhiwei Zhang, Zhihao Cai, Ziyuan Wang, Yaling Peng, Lun Xia, Suping Ma, Zhanzhao Yin, Yi Huang
Nano-Micro Lett. 13, 56 (2021). <https://doi.org/10.1007/s40820-020-00582-3>
17. **Berlin Green Framework-Based Gas Sensor for Room-Temperature and High-Selectivity Detection of Ammonia (ARTICLE)**
Tingqiang Yang, Lingfeng Gao, Wenxuan Wang, Jianlong Kang, Guanghui Zhao, Delong Li, Wen Chen, Han Zhang
Nano-Micro Lett. 13, 63 (2021). <https://doi.org/10.1007/s40820-020-00586-z>
18. **Simultaneously Regulating Uniform Zn²⁺ Flux and Electron Conduction by MOF/rGO Interlayers for High-Performance Zn Anodes (ARTICLE)**

- Ziqi Wang, Liubing Dong, Weiyuan Huang, Hao Jia, Qinghe Zhao, Yidi Wang, Bin Fei, Feng Pan
Nano-Micro Lett. 13, 73 (2021). <https://doi.org/10.1007/s40820-021-00594-7>
19. **Non-Magnetic Bimetallic MOF-Derived Porous Carbon-Wrapped TiO₂/ZrTiO₄ Composites for Efficient Electromagnetic Wave Absorption (ARTICLE)**
Jing Qiao, Xue Zhang, Chang Liu, Longfei Lyu, Yunfei Yang, Zhou Wang, Lili Wu, Wei Liu, Fenglong Wang, Jiurong Liu
Nano-Micro Lett. 13, 75 (2021). <https://doi.org/10.1007/s40820-021-00606-6>
20. **2D Nanomaterials for Effective Energy Scavenging (REVIEW)**
Md Al Mahadi Hasan, Yuanhao Wang, Chris R. Bowen, Ya Yang
Nano-Micro Lett. 13, 82 (2021). <https://doi.org/10.1007/s40820-021-00603-9>
21. **Pancake-Like MOF Solid-State Electrolytes with Fast Ion Migration for High-Performance Sodium Battery (ARTICLE)**
Gang Zhang, Jun Shu, Lin Xu, Xinyin Cai, Wenyuan Zou, Lulu Du, Song Hu, Liqiang Mai
Nano-Micro Lett. 13, 105 (2021). <https://doi.org/10.1007/s40820-021-00628-0>
22. **Recent Developments of Transition Metal Compounds-Carbon Hybrid Electrodes for High Energy/Power Supercapacitors (REVIEW)**
Kang Ren, Zheng Liu, Tong Wei and Zhuangjun Fan
Nano-Micro Lett. 13, 129 (2021). <https://doi.org/10.1007/s40820-021-00642-2>
23. **Design Engineering, Synthesis Protocols, and Energy Applications of MOF-Derived Electrocatalysts (REVIEW)**
Amr Radwan, Huihui Jin, Daping He and Shichun Mu
Nano-Micro Lett. 13, 132 (2021). <https://doi.org/10.1007/s40820-021-00656-w>
24. **Carbon-Based MOF Derivatives: Emerging Efficient Electromagnetic Wave Absorption Agents (REVIEW)**
Xue Zhang, Jing Qiao, Yanyan Jiang, Fenglong Wang, Xuelei Tian, Zhou Wang, Lili Wu, Wei Liu and Jiurong Liu
Nano-Micro Lett. 13, 135 (2021). <https://doi.org/10.1007/s40820-021-00658-8>
25. **Engineering the Coordination Sphere of Isolated Active Sites to Explore the Intrinsic Activity in Single-Atom Catalysts (REVIEW)**
Xin Wu, Huabin Zhang, Shouwei Zuo, Juncai Dong, Yang Li, Jian Zhang and Yu Han
Nano-Micro Lett. 13, 136 (2021). <https://doi.org/10.1007/s40820-021-00668-6>
26. **Recent Advances on MOF Derivatives for Non-Noble Metal Oxygen Electrocatalysts in Zinc-Air Batteries (REVIEW)**
Yuting Zhu, Kaihang Yue, Chenfeng Xia, Shahid Zaman, Huan Yang, Xianying Wang, Ya Yan and Bao Yu Xia
Nano-Micro Lett. 13, 137 (2021). <https://doi.org/10.1007/s40820-021-00669-5>
27. **All-Climate Aluminum-Ion Batteries Based on Binder-Free MOF-Derived FeS₂@C/CNT Cathode (ARTICLE)**
Yuxiang Hu, Hongjiao Huang, Deshuang Yu, Xinyi Wang, Linlin Li, Han Hu, Xiaobo Zhu, Shengjie Peng and Lianzhou Wang

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28. MOF-Derived ZnS Nanodots/Ti₃C₂T_x MXene Hybrids Boosting Superior Lithium Storage Performance (ARTICLE)

Bin Cao, Huan Liu, Xin Zhang, Peng Zhang, Qizhen Zhu, Huiling Du, Lianli Wang, Rupeng Zhang & Bin Xu

Nano-Micro Lett. 13, 202 (2021). <https://doi.org/10.1007/s40820-021-00728-x>

29. Rational Design of MOF-Based Materials for Next-Generation Rechargeable Batteries (REVIEW)

Zhengqing Ye, Ying Jiang, Li Li, Feng Wu & Renjie Chen

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