**Microwave Absorption & EMI Shielding**

**(2022-2024)**

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1. **Multifunctional MXene/Carbon Nanotube Janus Film for Electromagnetic Shielding and Infrared Shielding/Detection in Harsh Environments (Article)**

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1. **Enhancing Low-Frequency Microwave Absorption Through Structural Polarization Modulation of Mxenes (Article)**

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Nano-Micro Lett. 16, 165 (2024). <https://doi.org/10.1007/s40820-024-01365-w>

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1. **MXene Hollow Spheres Supported by a C–Co Exoskeleton Grow MWCNTs for Efficient Microwave Absorption (Article)**

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1. **Flexible, Transparent and Conductive Metal Mesh Films with Ultra-High FoM for Stretchable Heating and Electromagnetic Interference Shielding (Article)**

Zibo Chen, Shaodian Yang, Junhua Huang, Yifan Gu, Weibo Huang, Shaoyong Liu, Zhiqiang Lin, Zhiping Zeng, Yougen Hu, Zimin Chen, Boru Yang & Xuchun Gui

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1. **3D-Printed Carbon-Based Conformal Electromagnetic Interference Shielding Module for Integrated Electronics (Article)**

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Nano-Micro Lett. 14, 89 (2022). <https://doi.org/10.1007/s40820-022-00843-3>

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Fei Pan, Lei Cai, Yuyang Shi, Yanyan Dong, Xiaojie Zhu, Jie Cheng, Haojie Jiang, Xiao Wang, Yifeng Jiang & Wei Lu

Nano-Micro Lett. 14, 85 (2022). <https://doi.org/10.1007/s40820-022-00804-w>

1. **Recent Advances in Design Strategies and Multifunctionality of Flexible Electromagnetic Interference Shielding Materials (Review)**

Junye Cheng, Chuanbing Li, Yingfei Xiong, Huibin Zhang, Hassan Raza, Sana Ullah, Jinyi Wu, Guangping Zheng, Qi Cao, Deqing Zhang, Qingbin Zheng & Renchao Che

Nano-Micro Lett. 14, 80 (2022). <https://doi.org/10.1007/s40820-022-00823-7>

1. **Environmentally Tough and Stretchable MXene Organohydrogel with Exceptionally Enhanced Electromagnetic Interference Shielding Performances (Article)**

Yuanhang Yu, Peng Yi, Wenbin Xu, Xin Sun, Gao Deng, Xiaofang Liu, Jianglan Shui & Ronghai Yu

Nano-Micro Lett. 14, 77 (2022). <https://doi.org/10.1007/s40820-022-00819-3>

1. **Hierarchical Ti3C2Tx@ZnO Hollow Spheres with Excellent Microwave Absorption Inspired by the Visual Phenomenon of Eyeless Urchins (Article)**

Yan-Qin Wang, Hai-Bo Zhao, Jin-Bo Cheng, Bo-Wen Liu, Qiang Fu & Yu-Zhong Wang

Nano-Micro Lett. 14, 76 (2022). <https://doi.org/10.1007/s40820-022-00817-5>

1. **Self-Assembly MXene-rGO/CoNi Film with Massive Continuous Heterointerfaces and Enhanced Magnetic Coupling for Superior Microwave Absorber (Article)**

Xiao Li, Zhengchen Wu, Wenbin You, Liting Yang & Renchao Che

Nano-Micro Lett. 14, 73 (2022). <https://doi.org/10.1007/s40820-022-00811-x>

1. **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>

1. **Architecture Design and Interface Engineering of Self-assembly VS4/rGO Heterostructures for Ultrathin Absorbent (Article)**

Qi Li, Xuan Zhao, Zheng Zhang, Xiaochen Xun, Bin Zhao, Liangxu Xu, Zhuo Kang, Qingliang Liao & Yue Zhang

Nano-Micro Lett. 14, 67 (2022). <https://doi.org/10.1007/s40820-022-00809-5>

1. **Multifunctional Integrated Transparent Film for Efficient Electromagnetic Protection (Article)**

Gehuan Wang, Yue Zhao, Feng Yang, Yi Zhang, Ming Zhou & Guangbin Ji

Nano-Micro Lett. 14, 65 (2022). <https://doi.org/10.1007/s40820-022-00810-y>

1. **Ni Flower/MXene-Melamine Foam Derived 3D Magnetic/Conductive Networks for Ultra-Efficient Microwave Absorption and Infrared Stealth (Article)**

Haoran Cheng, Yamin Pan, Xin Wang, Chuntai Liu, Changyu Shen, Dirk W. Schubert, Zhanhu Guo & Xianhu Liu

Nano-Micro Lett. 14, 63 (2022). <https://doi.org/10.1007/s40820-022-00812-w>

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 & Shan-Yu Zhao

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

1. **High-Efficiency Electromagnetic Interference Shielding of rGO@FeNi/Epoxy Composites with Regular Honeycomb Structures (Article)**

Ping Song, Zhonglei Ma, Hua Qiu, Yifan Ru & Junwei Gu

Nano-Micro Lett. 14, 51 (2022). <https://doi.org/10.1007/s40820-022-00798-5>

1. **Tailorable, Lightweight and Superelastic Liquid Metal Monoliths for Multifunctional Electromagnetic Interference Shielding (Article)**

Yadong Xu, Zhiqiang Lin, Krishnamoorthy Rajavel, Tao Zhao, Pengli Zhu, Yougen Hu, Rong Sun & Ching-Ping Wong

Nano-Micro Lett. 14, 29 (2022). <https://doi.org/10.1007/s40820-021-00766-5>

1. **Bio-Inspired Microwave Modulator for High-Temperature Electromagnetic Protection, Infrared Stealth and Operating Temperature Monitoring (Article)**

Xuan Yang, Yuping Duan, Shuqing Li, Huifang Pang, Lingxi Huang, Yuanyuan Fu & Tongmin Wang

Nano-Micro Lett. 14, 28 (2022). <https://doi.org/10.1007/s40820-021-00776-3>

1. **Identification of the Intrinsic Dielectric Properties of Metal Single Atoms for Electromagnetic Wave Absorption (Article)**

Xinci Zhang, Yanan Shi, Jia Xu, Qiuyun Ouyang, Xiao Zhang, Chunling Zhu, Xiaoli Zhang & Yujin Chen

Nano-Micro Lett. 14, 27 (2022). <https://doi.org/10.1007/s40820-021-00773-6>

1. **Layered Foam/Film Polymer Nanocomposites with Highly Efficient EMI Shielding Properties and Ultralow Reflection (Article)**

Li Ma, Mahdi Hamidinejad, Biao Zhao, Caiyun Liang & Chul B. Park

Nano-Micro Lett. 14, 19 (2022). <https://doi.org/10.1007/s40820-021-00759-4>

1. **Directional Electromagnetic Interference Shielding Based on Step-Wise Asymmetric Conductive Networks (Article)**

Bai Xue, Yi Li, Ziling Cheng, Shengdu Yang, Lan Xie, Shuhao Qin & Qiang Zheng

Nano-Micro Lett. 14, 16 (2022). <https://doi.org/10.1007/s40820-021-00743-y>

1. **Biomass-Derived Carbon Heterostructures Enable Environmentally Adaptive Wideband Electromagnetic Wave Absorbers (Article)**

Zhichao Lou, Qiuyi Wang, Ufuoma I. Kara, Rajdeep S. Mamtani, Xiaodi Zhou, Huiyang Bian, Zhihong Yang, Yanjun Li, Hualiang Lv, Solomon Adera & Xiaoguang Wang

Nano-Micro Lett. 14, 11 (2022). <https://doi.org/10.1007/s40820-021-00750-z>