

# Microwave Absorption & EMI Shielding

## (2022-2025)

Browse in the web

- 1. Electromagnetic Functions Modulation of Recycled By-Products by Heterodimensional Structure (Article)**  
Ze Nan, Wei Wei, Zhenhua Lin, Ruimei Yuan, Miao Zhang, Jincheng Zhang, Jianyong Ouyang, Jingjing Chang, Hejun Li & Yue Hao  
Nano-Micro Lett. 17, 137 (2025). <https://doi.org/10.1007/s40820-025-01659-7>
- 2. Multifunctional Janus-Structured Polytetrafluoroethylene-Carbon Nanotube-Fe<sub>3</sub>O<sub>4</sub>/MXene Membranes for Enhanced EMI Shielding and Thermal Management (Article)**  
Runze Shao, Guilong Wang, Jialong Chai, Jun Lin, Guoqun Zhao, Zhihui Zeng & Guizhen Wang  
Nano-Micro Lett. 17, 136 (2025). <https://doi.org/10.1007/s40820-025-01647-x>
- 3. Multifunctional Carbon Foam with Nanoscale Chiral Magnetic Heterostructures for Broadband Microwave Absorption in Low Frequency (Article)**  
Hao Zhang, Kaili Kuang, Yifeng Zhang, Chen Sun, Tingkang Yuan, Ruilin Yin, Zeng Fan, Renchao Che & Lujun Pan  
Nano-Micro Lett. 17, 133 (2025). <https://doi.org/10.1007/s40820-025-01658-8>
- 4. Novel Cellulosic Fiber Composites with Integrated Multi-Band Electromagnetic Interference Shielding and Energy Storage Functionalities (Article)**  
Xuewen Han, Cheng Hao, Yukang Peng, Han Yu, Tao Zhang, Haonan Zhang, Kaiwen Chen, Heyu Chen, Zhenxing Wang, Ning Yan & Junwen Pu  
Nano-Micro Lett. 17, 122 (2025). <https://doi.org/10.1007/s40820-025-01652-0>
- 5. Lessons from Nature: Advances and Perspectives in Bionic Microwave Absorption Materials (Review)**  
Dashuang Wang, Tuo Ping, Zhilan Du, Xiaoying Liu & Yuxin Zhang  
Nano-Micro Lett. 17, 100 (2025). <https://doi.org/10.1007/s40820-024-01591-2>
- 6. Hierarchically Porous Polypyrrole Foams Contained Ordered Polypyrrole Nanowire Arrays for Multifunctional Electromagnetic Interference Shielding and Dynamic Infrared Stealth (Article)**  
Yu-long Liu, Ting-yu Zhu, Qin Wang, Zi-jie Huang, De-xiang Sun, Jing-hui Yang, Xiao-dong Qi & Yong Wang  
Nano-Micro Lett. 17, 97 (2025). <https://doi.org/10.1007/s40820-024-01588-x>
- 7. Hierarchical Polyimide Nonwoven Fabric with Ultralow-Reflectivity Electromagnetic Interference Shielding and High-Temperature Resistant Infrared Stealth Performance (Article)**  
Xinwei Tang, Yezi Lu, Shuangshuang Li, Mingyang Zhu, Zixuan Wang, Yan Li, Zaiyin Hu, Penglun Zheng, Zicheng Wang & Tianxi Liu  
Nano-Micro Lett. 17, 82 (2025). <https://doi.org/10.1007/s40820-024-01590-3>

- 8. Carbon Nanofiber/Polyaniline Composite Aerogel with Excellent Electromagnetic Interference Shielding, Low Thermal Conductivity, and Extremely Low Heat Release (Article)**  
Mingyi Chen, Jian Zhu, Kai Zhang, Hongkang Zhou, Yufei Gao, Jie Fan, Rouxi Chen & Hsing-Lin Wang  
Nano-Micro Lett. 17, 80 (2025). <https://doi.org/10.1007/s40820-024-01583-2>
- 9. MXene Hybridized Polymer with Enhanced Electromagnetic Energy Harvest for Sensitized Microwave Actuation and Self-Powered Motion Sensing (Article)**  
Yu-Ze Wang, Yu-Chang Wang, Ting-Ting Liu, Quan-Liang Zhao, Chen-Sha Li & Mao-Sheng Cao  
Nano-Micro Lett. 17, 65 (2025). <https://doi.org/10.1007/s40820-024-01578-z>
- 10. Multifunctional Nacre-Like Nanocomposite Papers for Electromagnetic Interference Shielding via Heterocyclic Aramid/MXene Template-Assisted In-Situ Polypyrrole Assembly (Article)**  
Jinhua Xiong, Xu Zhao, Zonglin Liu, He Chen, Qian Yan, Huanxin Lian, Yunxiang Chen, Qingyu Peng & Xiaodong He  
Nano-Micro Lett. 17, 53(2025). <https://doi.org/10.1007/s40820-024-01552-9>
- 11. Inter-Skeleton Conductive Routes Tuning Multifunctional Conductive Foam for Electromagnetic Interference Shielding, Sensing and Thermal Management (Article)**  
Xufeng Li, Chunyan Chen, Zhenyang Li, Peng Yi, Haihan Zou, Gao Deng, Ming Fang, Junzhe He, Xin Sun, Ronghai Yu, Jianglan Shui, Caofeng Pan & Xiaofang Liu  
Nano-Micro Lett. 17, 52(2025). <https://doi.org/10.1007/s40820-024-01540-z>
- 12. Graphene Aerogel Composites with Self-Organized Nanowires-Packed Honeycomb Structure for Highly Efficient Electromagnetic Wave Absorption (Article)**  
Xiao You, Huiying Ouyang, Ruixiang Deng, Qiuqi Zhang, Zhenzhong Xing, Xiaowu Chen, Qingliang Shan, Jinshan Yang & Shaoming Dong  
Nano-Micro Lett. 17, 47 (2025). <https://doi.org/10.1007/s40820-024-01541-y>
- 13. Integration of Electrical Properties and Polarization Loss Modulation on Atomic Fe–N-RGO for Boosting Electromagnetic Wave Absorption (Article)**  
Kaili Zhang, Yuefeng Yan, Zhen Wang, Guansheng Ma, Dechang Jia, Xiaoxiao Huang & Yu Zhou  
Nano-Micro Lett. 17, 46 (2025). <https://doi.org/10.1007/s40820-024-01518-x>
- 14. Magneto-Dielectric Synergy and Multiscale Hierarchical Structure Design Enable Flexible Multipurpose Microwave Absorption and Infrared Stealth Compatibility (Article)**  
Chen Li, Leilei Liang, Baoshan Zhang, Yi Yang & Guangbin Ji  
Nano-Micro Lett. 17, 40 (2025). <https://doi.org/10.1007/s40820-024-01549-4>
- 15. MoS<sub>2</sub> Lubricate-Toughened MXene/ANF Composites for Multifunctional Electromagnetic Interference Shielding (Article)**  
Jiaen Wang, Wei Ming, Longfu Chen, Tianliang Song, Moxi Yele, Hao Zhang, Long Yang, Gegen Sarula, Benliang Liang, Luting Yan & Guangsheng Wang  
Nano-Micro Lett. 17, 36 (2025). <https://doi.org/10.1007/s40820-024-01496-0>
- 16. Defects-Rich Heterostructures Trigger Strong Polarization Coupling in Sulfides/Carbon Composites with Robust Electromagnetic Wave Absorption (Article)**

Jiaolong Liu, Siyu Zhang, Dan Qu, Xuejiao Zhou, Moxuan Yin, Chenxuan Wang, Xuelin Zhang, Sichen Li, Peijun Zhang, Yuqi Zhou, Kai Tao, Mengyang Li, Bing Wei, Hongjing Wu, Mengyang Li, Bing Wei & Hongjing Wu

Nano-Micro Lett. 17, 24 (2025). <https://doi.org/10.1007/s40820-024-01515-0>

**17. Multiple Tin Compounds Modified Carbon Fibers to Construct Heterogeneous Interfaces for Corrosion Prevention and Electromagnetic Wave Absorption (Article)**

Zhiqiang Guo, Di Lan, Zirui Jia, Zhenguo Gao, Xuetao Shi, Mukun He, Hua Guo, Guanglei Wu & Pengfei Yin

Nano-Micro Lett. 17, 23 (2025). <https://doi.org/10.1007/s40820-024-01527-w>

**18. Designing Electronic Structures of Multiscale Helical Converters for Tailored Ultrabroad Electromagnetic Absorption (Article)**

Zhaobo Feng, Chongbo Liu, Xin Li, Guangsheng Luo, Naixin Zhai, Ruizhe Hu, Jing Lin, Jinbin Peng, Yuhui Peng & Renchao Che

Nano-Micro Lett. 17, 20 (2025). <https://doi.org/10.1007/s40820-024-01513-2>

**19. Spontaneous Orientation Polarization of Anisotropic Equivalent Dipoles Harnessed by Entropy Engineering for Ultra-Thin Electromagnetic Wave Absorber (Article)**

Honghan Wang, Xinyu Xiao, Shangru Zhai, Chuang Xue, Guangping Zheng, Deqing Zhang, Renchao Che & Junye Cheng

Nano-Micro Lett. 17, 19 (2025). <https://doi.org/10.1007/s40820-024-01507-0>

**20. Low-Temperature Oxidation Induced Phase Evolution with Gradient Magnetic Heterointerfaces for Superior Electromagnetic Wave Absorption (Article)**

Zizhuang He, Lingzi Shi, Ran Sun, Lianfei Ding, Mukun He, Jiaming Li, Hua Guo, Tiande Gao & Panbo Liu

Nano-Micro Lett. 17, 7 (2025). <https://doi.org/10.1007/s40820-024-01516-z>

**21. Advanced Functional Electromagnetic Shielding Materials: A Review Based on Micro-Nano Structure Interface Control of Biomass Cell Walls (Review)**

Yang Shi, Mingjun Wu, Shengbo Ge, Jianzhang Li, Anoud Saud Alshammari, Jing Luo, Mohammed A. Amin, Hua Qiu, Jinxuan Jiang, Yazeed M. Asiri, Runzhou Huang, Hua Hou, Zeinhom M. El-Bahy, Zhanhu Guo, Chong Jia, Kaimeng Xu & Xiangmeng Chen

Nano-Micro Lett. 17, 3 (2025). <https://doi.org/10.1007/s40820-024-01494-2>

**22. 3D Printing of Periodic Porous Metamaterials for Tunable Electromagnetic Shielding Across Broad Frequencies (Article)**

Qinniu Lv, Zilin Peng, Haoran Pei, Xinxing Zhang, Yinghong Chen, Huarong Zhang, Xu Zhu & Shulong Wu

Nano-Micro Lett. 16, 279 (2024). <https://doi.org/10.1007/s40820-024-01502-5>

**23. Enhancing Defect-Induced Dipole Polarization Strategy of SiC@MoO<sub>3</sub> Nanocomposite Towards Electromagnetic Wave Absorption (Article)**

Ting Wang, Wenxin Zhao, Yukun Miao, Anguo Cui, Chuanhui Gao, Chang Wang, Liying Yuan, Zhongning Tian, Alan Meng, Zhenjiang Li & Meng Zhang

- Nano-Micro Lett. 16, 273 (2024). <https://doi.org/10.1007/s40820-024-01478-2>
- 24. Liquid Metal Grid Patterned Thin Film Devices Toward Absorption-Dominant and Strain-Tunable Electromagnetic Interference Shielding (Article)**  
Yuwen Wei, Priyanuj Bhuyan, Suk Jin Kwon, Sihyun Kim, Yejin Bae, Mukesh Singh, Duy Thanh Tran, Minjeong Ha, Kwang-Un Jeong, Xing Ma, Byeongjin Park & Sungjune Park  
Nano-Micro Lett. 16, 248 (2024). <https://doi.org/10.1007/s40820-024-01457-7>
- 25. MOFs-Derived Strategy and Ternary Alloys Regulation in Flower-Like Magnetic-Carbon Microspheres with Broadband Electromagnetic Wave Absorption (Article)**  
Mengqiu Huang, Bangxin Li, Yuetong Qian, Lei Wang, Huibin Zhang, Chendi Yang, Longjun Rao, Gang Zhou, Chongyun Liang & Renchao Che  
Nano-Micro Lett. 16, 245 (2024). <https://doi.org/10.1007/s40820-024-01416-2>
- 26. Trunk-Inspired SWCNT-Based Wrinkled Films for Highly-Stretchable Electromagnetic Interference Shielding and Wearable Thermotherapy (Article)**  
Xiaofeng Gong, Tianjiao Hu, You Zhang, Yanan Zeng, Ye Zhang, Zhenhua Jiang, Yinlong Tan, Yanhong Zou, Jing Wang, Jiayu Dai & Zengyong Chu  
Nano-Micro Lett. 16, 243 (2024). <https://doi.org/10.1007/s40820-024-01454-w>
- 27. Multifunctional Film Assembled from N-Doped Carbon Nanofiber with Co–N4–O Single Atoms for Highly Efficient Electromagnetic Energy Attenuation (Article)**  
Jia Xu, Bei Li, Zheng Ma, Xiao Zhang, Chunling Zhu, Feng Yan, Piaoping Yang & Yujin Chen  
Nano-Micro Lett. 16, 240 (2024). <https://doi.org/10.1007/s40820-024-01440-2>
- 28. Controlled Twill Surface Structure Endowing Nanofiber Composite Membrane Excellent Electromagnetic Interference Shielding (Article)**  
Dechang Tao, Xin Wen, Chenguang Yang, Kun Yan, Zhiyao Li, Wenwen Wang & Dong Wang  
Nano-Micro Lett. 16, 236 (2024). <https://doi.org/10.1007/s40820-024-01444-y>
- 29. Designing Symmetric Gradient Honeycomb Structures with Carbon-Coated Iron-Based Composites for High-Efficiency Microwave Absorption (Article)**  
Yu Zhang, Shu-Hao Yang, Yue Xin, Bo Cai, Peng-Fei Hu, Hai-Yang Dai, Chen-Ming Liang, Yun-Tong Meng, Ji-Hao Su, Xiao-Juan Zhang, Min Lu & Guang-Sheng Wang  
Nano-Micro Lett. 16, 234 (2024). <https://doi.org/10.1007/s40820-024-01435-z>
- 30. Lightweight Dual-Functional Segregated Nanocomposite Foams for Integrated Infrared Stealth and Absorption-Dominant Electromagnetic Interference Shielding (Article)**  
Zhonglei Ma, Ruochu Jiang, Jiayao Jing, Songlei Kang, Li Ma, Kefan Zhang, Junxian Li, Yu Zhang, Jianbin Qin, Shuhuan Yun & Guangcheng Zhang  
Nano-Micro Lett. 16, 223 (2024). <https://doi.org/10.1007/s40820-024-01450-0>
- 31. Mixed-Dimensional Assembly Strategy to Construct Reduced Graphene Oxide/Carbon Foams Heterostructures for Microwave Absorption, Anti-Corrosion and Thermal Insulation (Article)**  
Beibei Zhan, Yunpeng Qu, Xiaosi Qi, Junfei Ding, Jiao-jing Shao, Xiu Gong, Jing-Liang Yang, Yanli Chen, Qiong Peng, Wei Zhong & Hualiang Lv  
Nano-Micro Lett. 16, 221 (2024). <https://doi.org/10.1007/s40820-024-01447-9>

- 32. Multifunctional MXene/Carbon Nanotube Janus Film for Electromagnetic Shielding and Infrared Shielding/Detection in Harsh Environments (Article)**  
Tufail Hassan, Aamir Iqbal, Byungkwon Yoo, Jun Young Jo, Nilufer Cakmakci, Shabbir Madad Naqvi, Hyerim Kim, Sungmin Jung, Noushad Hussain, Ujala Zafar, Soo Yeong Cho, Seunghwan Jeong, Jaewoo Kim, Jung Min Oh, Sangwoon Park, Youngjin Jeong & Chong Min Koo  
Nano-Micro Lett. 16, 216 (2024). <https://doi.org/10.1007/s40820-024-01431-3>
- 33. Constructing Built-In Electric Fields with Semiconductor Junctions and Schottky Junctions Based on Mo–MXene/Mo–Metal Sulfides for Electromagnetic Response (Article)**  
Xiaojun Zeng, Xiao Jiang, Ya Ning, Yanfeng Gao & Renchao Che  
Nano-Micro Lett. 16, 213 (2024). <https://doi.org/10.1007/s40820-024-01449-7>
- 34. Enhancing Low-Frequency Microwave Absorption Through Structural Polarization Modulation of Mxenes (Article)**  
Bo Shan, Yang Wang, Xinyi Ji & Yi Huang  
Nano-Micro Lett. 16, 212 (2024). <https://doi.org/10.1007/s40820-024-01437-x>
- 35. Multifunctional Integrated Organic–Inorganic-Metal Hybrid Aerogel for Excellent Thermal Insulation and Electromagnetic Shielding Performance (Article)**  
Zhaoqi Niu, Fengjin Qu, Fang Chen, Xiaoyan Ma, Beixi Chen, Luyao Wang, Miao Xu, Shumeng Wang, Liang Jin, Chengshuang Zhang & Xiao Hou  
Nano-Micro Lett. 16, 200 (2024). <https://doi.org/10.1007/s40820-024-01409-1>
- 36. Thermally Conductive and UV-EMI Shielding Electronic Textiles for Unrestricted and Multifaceted Health Monitoring (Article)**  
Yidong Peng, Jiancheng Dong, Jiayan Long, Yuxi Zhang, Xinwei Tang, Xi Lin, Haoran Liu, Tuoqi Liu, Wei Fan, Tianxi Liu & Yunpeng Huang  
Nano-Micro Lett. 16, 199 (2024). <https://doi.org/10.1007/s40820-024-01429-x>
- 37. Leakage Proof, Flame-Retardant, and Electromagnetic Shield Wood Morphology Genetic Composite Phase Change Materials for Solar Thermal Energy Harvesting (Article)**  
Yuhui Chen, Yang Meng, Jiangyu Zhang, Yuhui Xie, Hua Guo, Mukun He, Xuetao Shi, Yi Mei, Xinxin Sheng & Delong Xie  
Nano-Micro Lett. 16, 196 (2024). <https://doi.org/10.1007/s40820-024-01414-4>
- 38. MXene@c-MWCNT Adhesive Silica Nanofiber Membranes Enhancing Electromagnetic Interference Shielding and Thermal Insulation Performance in Extreme Environments (Article)**  
Ziyuan Han, Yutao Niu, Xuetao Shi, Duo Pan, Hu Liu, Hua Qiu, Weihua Chen, Ben Bin Xu, Zeinhom M. El-Bahy, Hua Hou, Eman Ramadan Elsharkawy, Mohammed A. Amin, Chuntai Liu & Zhanhu Guo  
Nano-Micro Lett. 16, 195 (2024). <https://doi.org/10.1007/s40820-024-01398-1>
- 39. Achieving Ultra-Broad Microwave Absorption Bandwidth Around Millimeter-Wave Atmospheric Window Through an Intentional Manipulation on Multi-Magnetic Resonance Behavior (Article)**

- Chuyang Liu, Lu Xu, Xueyu Xiang, Yujing Zhang, Li Zhou, Bo Ouyang, Fan Wu, Dong-Hyun Kim & Guangbin Ji  
Nano-Micro Lett. 16, 176 (2024). <https://doi.org/10.1007/s40820-024-01395-4>
- 40. Structural Engineering of Hierarchical Magnetic/Carbon Nanocomposites via In Situ Growth for High-Efficient Electromagnetic Wave Absorption (Article)**  
Xianyuan Liu, Jinman Zhou, Ying Xue & Xianyong Lu  
Nano-Micro Lett. 16, 174 (2024). <https://doi.org/10.1007/s40820-024-01396-3>
- 41. In Situ Atomic Reconstruction Engineering Modulating Graphene-Like MXene-Based Multifunctional Electromagnetic Devices Covering Multi-Spectrum (Article)**  
Ting-Ting Liu, Qi Zheng, Wen-Qiang Cao, Yu-Ze Wang, Min Zhang, Quan-Liang Zhao & Mao-Sheng Cao  
Nano-Micro Lett. 16, 173 (2024). <https://doi.org/10.1007/s40820-024-01391-8>
- 42. Hollow Metal–Organic Framework/MXene/Nanocellulose Composite Films for Giga/Terahertz Electromagnetic Shielding and Photothermal Conversion (Article)**  
Tian Mai, Lei Chen, Pei-Lin Wang, Qi Liu & Ming-Guo Ma  
Nano-Micro Lett. 16, 169 (2024). <https://doi.org/10.1007/s40820-024-01386-5>
- 43. Interface Engineering of Titanium Nitride Nanotube Composites for Excellent Microwave Absorption at Elevated Temperature (Article)**  
Cuiping Li, Dan Li, Shuai Zhang, Long Ma, Lei Zhang, Jingwei Zhang & Chunhong Gong  
Nano-Micro Lett. 16, 168 (2024). <https://doi.org/10.1007/s40820-024-01381-w>
- 44. Compositional and Hollow Engineering of Silicon Carbide/Carbon Microspheres as High-Performance Microwave Absorbing Materials with Good Environmental Tolerance (Article)**  
Lixue Gai, Yahui Wang, Pan Wan, Shuping Yu, Yongzheng Chen, Xijiang Han, Ping Xu & Yunchen Du  
Nano-Micro Lett. 16, 167 (2024). <https://doi.org/10.1007/s40820-024-01369-6>
- 45. Stretchable, Transparent, and Ultra-Broadband Terahertz Shielding Thin Films Based on Wrinkled MXene Architectures (Article)**  
Shaodian Yang, Zhiqiang Lin, Ximiao Wang, Junhua Huang, Rongliang Yang, Zibo Chen, Yi Jia, Zhiping Zeng, Zhaolong Cao, Hongjia Zhu, Yougen Hu, Enen Li, Huanjun Chen, Tianwu Wang, Shaozhi Deng & Xuchun Gui  
Nano-Micro Lett. 16, 165 (2024). <https://doi.org/10.1007/s40820-024-01365-w>
- 46. Enhancing the Interaction of Carbon Nanotubes by Metal–Organic Decomposition with Improved Mechanical Strength and Ultra-Broadband EMI Shielding Performance (Article)**  
Yu-Ying Shi, Si-Yuan Liao, Qiao-Feng Wang, Xin-Yun Xu, Xiao-Yun Wang, Xin-Yin Gu, You-Gen Hu, Peng-Li Zhu, Rong Sun & Yan-Jun Wan  
Nano-Micro Lett. 16, 134 (2024). <https://doi.org/10.1007/s40820-024-01344-1>
- 47. MXene Hollow Spheres Supported by a C–Co Exoskeleton Grow MWCNTs for Efficient Microwave Absorption (Article)**  
Ze Wu, Xiuli Tan, Jianqiao Wang, Youqiang Xing, Peng Huang, Bingjue Li & Lei Liu

- Nano-Micro Lett. 16, 107 (2024). <https://doi.org/10.1007/s40820-024-01326-3>
- 48. 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  
Nano-Micro Lett. 16, 92 (2024). <https://doi.org/10.1007/s40820-023-01295-z>
- 49. 3D-Printed Carbon-Based Conformal Electromagnetic Interference Shielding Module for Integrated Electronics (Article)**  
Shaohong Shi, Yuheng Jiang, Hao Ren, Siwen Deng, Jianping Sun, Fangchao Cheng, Jingjing Jing & Yinghong Chen  
Nano-Micro Lett. 16, 85 (2024). <https://doi.org/10.1007/s40820-023-01317-w>
- 50. Tracking Regulatory Mechanism of Trace Fe on Graphene Electromagnetic Wave Absorption (Article)**  
Kaili Zhang, Yuhao Liu, Yanan Liu, Yuefeng Yan, Guansheng Ma, Bo Zhong, Renchao Che & Xiaoxiao Huang  
Nano-Micro Lett. 16, 66 (2024). <https://doi.org/10.1007/s40820-023-01280-6>
- 51. Two-Dimensional Cr<sub>5</sub>Te<sub>8</sub>@Graphite Heterostructure for Efficient Electromagnetic Microwave Absorption (Article)**  
Liyuan Qin, Ziyang Guo, Shuai Zhao, Denan Kong, Wei Jiang, Ruibin Liu, Xijuan Lv, Jiadong Zhou & Qinghai Shu  
Nano-Micro Lett. 16, 60 (2024). <https://doi.org/10.1007/s40820-023-01271-7>
- 52. Self-Assembly of Binderless MXene Aerogel for Multiple-Scenario and Responsive Phase Change Composites with Ultrahigh Thermal Energy Storage Density and Exceptional Electromagnetic Interference Shielding (Article)**  
Chuanbiao Zhu, Yurong Hao, Hao Wu, Mengni Chen, Bingqing Quan, Shuang Liu, Xinpeng Hu, Shilong Liu, Qinghong Ji, Xiang Lu & Jinping Qu  
Nano-Micro Lett. 16, 57 (2024). <https://doi.org/10.1007/s40820-023-01288-y>
- 53. Layered Structural PBAT Composite Foams for Efficient Electromagnetic Interference Shielding (Article)**  
Jianming Yang, Hu Wang, Yali Zhang, Hexin Zhang & Junwei Gu  
Nano-Micro Lett. 16, 31 (2024). <https://doi.org/10.1007/s40820-023-01246-8>
- 54. From VIB- to VB-Group Transition Metal Disulfides: Structure Engineering Modulation for Superior Electromagnetic Wave Absorption (Review)**  
Junye Cheng, Yongheng Jin, Jinghan Zhao, Qi Jing, Bailong Gu, Jialiang Wei, Shenghui Yi, Mingming Li, Wanli Nie, Qinghua Qin, Deqing Zhang, Guangping Zheng & Renchao Che  
Nano-Micro Lett. 16, 29 (2024). <https://doi.org/10.1007/s40820-023-01247-7>
- 55. Efficient Electromagnetic Wave Absorption and Thermal Infrared Stealth in PVTMS@MWCNT Nano-Aerogel via Abundant Nano-Sized Cavities and Attenuation Interfaces (Article)**

- Haoyu Ma, Maryam Fashandi, Zeineb Ben Rejeb, Xin Ming, Yingjun Liu, Pengjian Gong,  
Guangxian Li & Chul B. Park  
Nano-Micro Lett. 16, 20 (2024). <https://doi.org/10.1007/s40820-023-01218-y>
- 56. Nitrogen-Doped Magnetic-Dielectric-Carbon Aerogel for High-Efficiency Electromagnetic Wave Absorption (Article)**  
Shijie Wang, Xue Zhang, Shuyan Hao, Jing Qiao, Zhou Wang, Lili Wu, Jiurong Liu & Fenglong Wang  
Nano-Micro Lett. 16, 16 (2024). <https://doi.org/10.1007/s40820-023-01244-w>
- 57. Multiphase Interfacial Regulation Based on Hierarchical Porous Molybdenum Selenide to Build Anticorrosive and Multiband Tailorable Absorbers (Article)**  
Tianbao Zhao, Zirui Jia, Jinkun Liu, Yan Zhang, Guanglei Wu & Pengfei Yin  
Nano-Micro Lett. 16, 6 (2024). <https://doi.org/10.1007/s40820-023-01212-4>
- 58. Diverse Structural Design Strategies of MXene-Based Macrostructure for High-Performance Electromagnetic Interference Shielding (Review)**  
Yue Liu, Yadi Wang, Na Wu, Mingrui Han, Wei Liu, Jiurong Liu & Zhihui Zeng  
Nano-Micro Lett. 15, 240 (2023). <https://doi.org/10.1007/s40820-023-01203-5>
- 59. Initiating Binary Metal Oxides Microcubes Electromagnetic Wave Absorber Toward Ultrabroad Absorption Bandwidth Through Interfacial and Defects Modulation (Article)**  
Fushan Li, Nannan Wu, Hideo Kimura, Yuan Wang, Ben Bin Xu, Ding Wang, Yifan Li, Hassan Algadi, Zhanhu Guo, Wei Du & Chuanxin Hou  
Nano-Micro Lett. 15, 220 (2023). <https://doi.org/10.1007/s40820-023-01197-0>
- 60. Integration of Multiple Heterointerfaces in a Hierarchical 0D@2D@1D Structure for Lightweight, Flexible, and Hydrophobic Multifunctional Electromagnetic Protective Fabrics (Article)**  
Shuo Zhang, Xuehua Liu, Chenyu Jia, Zhengshuo Sun, Haowen Jiang, Zirui Jia & Guanglei Wu  
Nano-Micro Lett. 15, 204 (2023). <https://doi.org/10.1007/s40820-023-01179-2>
- 61. Maximizing Terahertz Energy Absorption with MXene Absorber (Highlights)**  
Xinliang Li & Hao Luo  
Nano-Micro Lett. 15, 198 (2023). <https://doi.org/10.1007/s40820-023-01167-6>
- 62. Multifunctional MXene/C Aerogels for Enhanced Microwave Absorption and Thermal Insulation (Article)**  
Fushuo Wu, Peiying Hu, Feiyue Hu, Zhihua Tian, Jingwen Tang, Peigen Zhang, Long Pan, Michel W. Barsoum, Longzhu Cai & ZhengMing Sun  
Nano-Micro Lett. 15, 194 (2023). <https://doi.org/10.1007/s40820-023-01158-7>
- 63. Flash-Induced High-Throughput Porous Graphene via Synergistic Photo-Effects for Electromagnetic Interference Shielding (Article)**  
Jin Soo Lee, Jeong-Wook Kim, Jae Hee Lee, Yong Koo Son, Young Bin Kim, Kyoohee Woo, Chanhee Lee, Il-Doo Kim, Jae Young Seok, Jong Won Yu, Jung Hwan Park & Keon Jae Lee  
Nano-Micro Lett. 15, 191 (2023). <https://doi.org/10.1007/s40820-023-01157-8>

- 64. Ultrafine Vacancy-Rich Nb<sub>2</sub>O<sub>5</sub> Semiconductors Confined in Carbon Nanosheets Boost Dielectric Polarization for High-Attenuation Microwave Absorption (Article)**  
Zhe Su, Shan Yi, Wanyu Zhang, Xiayi Xu, Yayun Zhang, Shenghu Zhou, Bo Niu & Donghui Long  
Nano-Micro Lett. 15, 183 (2023). <https://doi.org/10.1007/s40820-023-01151-0>
- 65. "Three-in-One" Multi-Scale Structural Design of Carbon Fiber-Based Composites for Personal Electromagnetic Protection and Thermal Management (Article)**  
Ming Zhou, Shujuan Tan, Jingwen Wang, Yue Wu, Leilei Liang & Guangbin Ji  
Nano-Micro Lett. 15, 176 (2023). <https://doi.org/10.1007/s40820-023-01144-z>
- 66. Flexible Nanocomposite Conductors for Electromagnetic Interference Shielding (Review)**  
Ze Nan, Wei Wei, Zhenhua Lin, Jingjing Chang & Yue Hao  
Nano-Micro Lett. 15, 172 (2023). <https://doi.org/10.1007/s40820-023-01122-5>
- 67. Boosting Interfacial Polarization Through Heterointerface Engineering in MXene/Graphene Intercalated-Based Microspheres for Electromagnetic Wave Absorption (Article)**  
Ge Wang, Changfeng Li, Diana Estevez, Peng Xu, Mengyue Peng, Huijie Wei & Faxiang Qin  
Nano-Micro Lett. 15, 152 (2023). <https://doi.org/10.1007/s40820-023-01123-4>
- 68. Oxidative Molecular Layer Deposition Tailoring Eco-Mimetic Nanoarchitecture to Manipulate Electromagnetic Attenuation and Self-Powered Energy Conversion (Article)**  
Jin-Cheng Shu, Yan-Lan Zhang, Yong Qin & Mao-Sheng Cao  
Nano-Micro Lett. 15, 142 (2023). <https://doi.org/10.1007/s40820-023-01112-7>
- 69. Construction of Self-Assembly Based Tunable Absorber: Lightweight, Hydrophobic and Self-Cleaning Properties (Article)**  
Zehua Zhou, Qianqian Zhu, Yue Liu, Yan Zhang, Zirui Jia & Guanglei Wu  
Nano-Micro Lett. 15, 137 (2023). <https://doi.org/10.1007/s40820-023-01108-3>
- 70. Regulating the Electrical and Mechanical Properties of TaS<sub>2</sub> Films via van der Waals and Electrostatic Interaction for High Performance Electromagnetic Interference Shielding (Article)**  
Fukang Deng, Jianhong Wei, Yadong Xu, Zhiqiang Lin, Xi Lu, Yan-Jun Wan, Rong Sun, Ching-Ping Wong & Yougen Hu  
Nano-Micro Lett. 15, 106 (2023). <https://doi.org/10.1007/s40820-023-01061-1>
- 71. Highly Ordered Thermoplastic Polyurethane/Aramid Nanofiber Conductive Foams Modulated by Kevlar Polyanion for Piezoresistive Sensing and Electromagnetic Interference Shielding (Original Article)**  
Kunpeng Qian, Jianyu Zhou, Miao Miao, Hongmin Wu, Sineenat Thaiboonrod, Jianhui Fang & Xin Feng  
Nano-Micro Lett. 15, 88 (2023). <https://doi.org/10.1007/s40820-023-01062-0>
- 72. Self-Healing Liquid Metal Magnetic Hydrogels for Smart Feedback Sensors and High-Performance Electromagnetic Shielding (Original Article)**  
Biao Zhao, Zhongyi Bai, Hualiang Lv, Zhikai Yan, Yiqian Du, Xiaoqin Guo, Jincang Zhang, Limin Wu, Jiushuai Deng, David Wei Zhang & Renchao Che  
Nano-Micro Lett. 15, 79 (2023). <https://doi.org/10.1007/s40820-023-01043-3>

- 73. Absorption-Dominant mmWave EMI Shielding Films with Ultralow Reflection using Ferromagnetic Resonance Frequency Tunable M-Type Ferrites (Article)**  
Horim Lee, Seung Han Ryu, Suk Jin Kwon, Jae Ryung Choi, Sang-bok Lee & Byeongjin Park  
Nano-Micro Lett. 15, 76 (2023). <https://doi.org/10.1007/s40820-023-01058-w>
- 74. 3D Printed Integrated Gradient-Conductive MXene/CNT/Polyimide Aerogel Frames for Electromagnetic Interference Shielding with Ultra-Low Reflection (Article)**  
Tiantian Xue, Yi Yang, Dingyi Yu, Qamar Wali, Zhenyu Wang, Xuesong Cao, Wei Fan & Tianxi Liu  
Nano-Micro Lett. 15, 45 (2023). <https://doi.org/10.1007/s40820-023-01017-5>
- 75. Flexible Polydimethylsiloxane Composite with Multi-Scale Conductive Network for Ultra-Strong Electromagnetic Interference Protection (Article)**  
Jie Li, He Sun, Shuang-Qin Yi, Kang-Kang Zou, Dan Zhang, Gan-Ji Zhong, Ding-Xiang Yan & Zhong-Ming Li  
Nano-Micro Lett. 15, 15 (2023). <https://doi.org/10.1007/s40820-022-00990-7>
- 76. Multicomponent Nanoparticles Synergistic One-Dimensional Nanofibers as Heterostructure Absorbers for Tunable and Efficient Microwave Absorption (Article)**  
Chenxi Wang, Yue Liu, Zirui Jia, Wanru Zhao & Guanglei Wu  
Nano-Micro Lett. 15, 13 (2023). <https://doi.org/10.1007/s40820-022-00986-3>
- 77. Green, Sustainable Architectural Bamboo with High Light Transmission and Excellent Electromagnetic Shielding as a Candidate for Energy-Saving Buildings (Article)**  
Jing Wang, Xinyu Wu, Yajing Wang, Weiyang Zhao, Yue Zhao, Ming Zhou, Yan Wu & Guangbin Ji  
Nano-Micro Lett. 15, 11 (2023). <https://doi.org/10.1007/s40820-022-00982-7>
- 78. Hollow Gradient-Structured Iron-Anchored Carbon Nanospheres for Enhanced Electromagnetic Wave Absorption (Article)**  
Cao Wu, Jing Wang, Xiaohang Zhang, Lixing Kang, Xun Cao, Yongyi Zhang, Yutao Niu, Yingying Yu, Huili Fu, Zongjie Shen, Kunjie Wu, Zhenzhong Yong, Jingyun Zou, Bin Wang, Zhou Chen, Zhengpeng Yang & Qingwen Li  
Nano-Micro Lett. 15, 7 (2023). <https://doi.org/10.1007/s40820-022-00963-w>
- 79. Significantly Enhanced Electromagnetic Interference Shielding Performances of Epoxy Nanocomposites with Long-Range Aligned Lamellar Structures (Article)**  
Lei Wang, Zhonglei Ma, Hua Qiu, Yali Zhang, Ze Yu & Junwei Gu  
Nano-Micro Lett. 14, 224 (2022). <https://doi.org/10.1007/s40820-022-00949-8>
- 80. Highly Flexible Fabrics/Epoxy Composites with Hybrid Carbon Nanofillers for Absorption-Dominated Electromagnetic Interference Shielding (Article)**  
Jong-Hoon Lee, Yoon-Sub Kim, Hea-Jin Ru, Seul-Yi Lee & Soo-Jin Park  
Nano-Micro Lett. 14, 188 (2022). <https://doi.org/10.1007/s40820-022-00926-1>
- 81. Printable Aligned Single-Walled Carbon Nanotube Film with Outstanding Thermal Conductivity and Electromagnetic Interference Shielding Performance (Article)**  
Zhihui Zeng, Gang Wang, Brendan F. Wolan, Na Wu, Changxian Wang, Shanyu Zhao, Shengying Yue, Bin Li, Weidong He, Jiurong Liu & Joseph W. Lyding

- Nano-Micro Lett. 14, 179 (2022). <https://doi.org/10.1007/s40820-022-00883-9>
- 82. Achieving Ultra-Wideband and Elevated Temperature Electromagnetic Wave Absorption via Constructing Lightweight Porous Rigid Structure (Article)**  
Zibao Jiao, Wenjun Huan, Feng Yang, Junru Yao, Ruiyang Tan, Ping Chen, Xuewei Tao, Zhengjun Yao, Jintang Zhou & Peijiang Liu  
Nano-Micro Lett. 14, 173 (2022). <https://doi.org/10.1007/s40820-022-00904-7>
- 83. Ultrabroad Microwave Absorption Ability and Infrared Stealth Property of Nano-Micro CuS@rGO Lightweight Aerogels (Article)**  
Yue Wu, Yue Zhao, Ming Zhou, Shujuan Tan, Reza Peymanfar, Bagher Aslibeiki & Guangbin Ji  
Nano-Micro Lett. 14, 171 (2022). <https://doi.org/10.1007/s40820-022-00906-5>
- 84. One-Dimensional Magnetic FeCoNi Alloy Toward Low-Frequency Electromagnetic Wave Absorption (Article)**  
Bintong Yang, Jiefeng Fang, Chunyang Xu, Hui Cao, Ruixuan Zhang, Biao Zhao, Mengqiu Huang, Xiangyu Wang, Hualiang Lv & Renchao Che  
Nano-Micro Lett. 14, 170 (2022). <https://doi.org/10.1007/s40820-022-00920-7>
- 85. An Equivalent Substitute Strategy for Constructing 3D Ordered Porous Carbon Foams and Their Electromagnetic Attenuation Mechanism (Article)**  
Meng Zhang, Hailong Ling, Ting Wang, Yingjing Jiang, Guanying Song, Wen Zhao, Laibin Zhao, Tingting Cheng, Yuxin Xie, Yuying Guo, Wenxin Zhao, Liying Yuan, Alan Meng & Zhenjiang Li  
Nano-Micro Lett. 14, 157 (2022). <https://doi.org/10.1007/s40820-022-00900-x>
- 86. Multifunctional SiC@SiO<sub>2</sub> Nanofiber Aerogel with Ultrabroadband Electromagnetic Wave Absorption (Article)**  
Limeng Song, Fan Zhang, Yongqiang Chen, Li Guan, Yanqiu Zhu, Mao Chen, Hailong Wang, Budi Riza Putra, Rui Zhang & Bingbing Fan  
Nano-Micro Lett. 14, 152 (2022). <https://doi.org/10.1007/s40820-022-00905-6>
- 87. Microstructure Design of High-Entropy Alloys Through a Multistage Mechanical Alloying Strategy for Temperature-Stable Megahertz Electromagnetic Absorption (Article)**  
Xiaoji Liu, Yuping Duan, Yuan Guo, Huifang Pang, Zerui Li, Xingyang Sun & Tongmin Wang  
Nano-Micro Lett. 14, 142 (2022). <https://doi.org/10.1007/s40820-022-00886-6>
- 88. Macroscopic Electromagnetic Cooperative Network-Enhanced MXene/Ni Chains Aerogel-Based Microwave Absorber with Ultra-Low Matching Thickness (Article)**  
Fei Pan, Yanping Rao, Dan Batalu, Lei Cai, Yanyan Dong, Xiaojie Zhu, Yuyang Shi, Zhong Shi, Yaowen Liu & Wei Lu  
Nano-Micro Lett. 14, 140 (2022). <https://doi.org/10.1007/s40820-022-00869-7>
- 89. Digital Light Processing 3D-Printed Ceramic Metamaterials for Electromagnetic Wave Absorption (Article)**  
Rui Zhou, Yansong Wang, Ziyu Liu, Yongqiang Pang, Jianxin Chen & Jie Kong  
Nano-Micro Lett. 14, 122 (2022). <https://doi.org/10.1007/s40820-022-00865-x>

- 90. Vertically Aligned Silicon Carbide Nanowires/Boron Nitride Cellulose Aerogel Networks Enhanced Thermal Conductivity and Electromagnetic Absorbing of Epoxy Composites (Article)**  
Duo Pan, Gui Yang, Hala M. Abo-Dief, Jingwen Dong, Fengmei Su, Chuntai Liu, Yifan Li, Ben Bin Xu, Vignesh Murugadoss, Nithesh Naik, Salah M. El-Bahy, Zeinhom M. El-Bahy, Minan Huang & Zhanhu Guo  
Nano-Micro Lett. 14, 118 (2022). <https://doi.org/10.1007/s40820-022-00863-z>
- 91. Super-Tough and Environmentally Stable Aramid. Nanofiber@MXene Coaxial Fibers with Outstanding Electromagnetic Interference Shielding Efficiency (Article)**  
Liu-Xin Liu, Wei Chen, Hao-Bin Zhang, Lvquan Ye, Zhenguo Wang, Yu Zhang, Peng Min & Zhong-Zhen Yu  
Nano-Micro Lett. 14, 111 (2022). <https://doi.org/10.1007/s40820-022-00853-1>
- 92. 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>
- 93. Size-Dependent Oxidation-Induced Phase Engineering for MOFs Derivatives Via Spatial Confinement Strategy Toward Enhanced Microwave Absorption (Article)**  
Hanxiao Xu, Guozheng Zhang, Yi Wang, Mingqiang Ning, Bo Ouyang, Yang Zhao, Ying Huang & Panbo Liu  
Nano-Micro Lett. 14, 102 (2022). <https://doi.org/10.1007/s40820-022-00841-5>
- 94. Ultrahigh Density of Atomic CoFe-Electron Synergy in Noncontinuous Carbon Matrix for Highly Efficient Magnetic Wave Adsorption (Article)**  
Wenhuan Huang, Qiang Qiu, Xiufang Yang, Shouwei Zuo, Jianan Bai, Huabin Zhang, Ke Pei & Renchao Che  
Nano-Micro Lett. 14, 96 (2022). <https://doi.org/10.1007/s40820-022-00830-8>
- 95. A Perspective for Developing Polymer-Based Electromagnetic Interference Shielding Composites (Perspective)**  
Yali Zhang & Junwei Gu  
Nano-Micro Lett. 14, 89 (2022). <https://doi.org/10.1007/s40820-022-00843-3>
- 96. Heterointerface Engineering of  $\beta$ -Chitin/Carbon Nano-Onions/Ni–P Composites with Boosted Maxwell-Wagner-Sillars Effect for Highly Efficient Electromagnetic Wave Response and Thermal Management (Article)**  
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>
- 97. 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>
- 98. 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>
- 99. Hierarchical  $\text{Ti}_3\text{C}_2\text{T}_x/\text{ZnO}$  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>
- 100. 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>
- 101. 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>
- 102. 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>
- 103. 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>
- 104. 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>
- 105. 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>

**106. 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>

**107. 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>

**108. 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>

**109. 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>

**110. 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>

**111. 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>

**112. 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>