

Thermally conductive polyvinyl alcohol composite film hetero-structured MXene@silver fillers

Nano Research

16, 7820-7828

DOI: [10.1007/s12274-023-5594-1](https://doi.org/10.1007/s12274-023-5594-1)

Citation Report

#	ARTICLE	IF	CITATIONS
1	A facile and green strategy to achieve metallized woven carbon fiber through the triple roles of dopamine in in-situ thermal reduction of Ag. <i>Composites Communications</i> , 2023, 40, 101585.	6.3	1
2	Advancing pressure sensors performance through a flexible MXene embedded interlocking structure in a microlens array. <i>Nano Research</i> , 2023, 16, 10493-10499.	10.4	6
3	High EMI shielding effectiveness and superhydrophobic properties based on step-wise asymmetric structure constructed by one-step method. <i>Nano Research</i> , 2023, 16, 10483-10492.	10.4	4
4	Hybrid-Filler-Incorporated, Photocurable, Thermally Conductive Elastomers with High Stretchability and Self-Attachability. <i>Industrial & Engineering Chemistry Research</i> , 2023, 62, 9257-9267.	3.7	1
5	Bacterial-Cellulose-Reinforced Graphite Nanoplate Films for Electromagnetic Interference Shielding, Heat Conduction, and Joule Heating. <i>ACS Applied Nano Materials</i> , 2023, 6, 10202-10212.	5.0	4
6	Flexible thermoregulatory microcapsule/polyurethane-MXene composite films with multiple thermal management functionalities and excellent EMI shielding performance. <i>Journal of Materials Science and Technology</i> , 2023, 165, 27-38.	10.7	51
7	Hexagonal boron nitride nanosheets: Preparation, heat transport property and application as thermally conductive fillers. <i>Progress in Materials Science</i> , 2023, 138, 101154.	32.8	19
8	Thermally conductive epoxy composites with efficient heat transfer pathways by in-situ growth of CNTs on oriented BNNS. <i>Composites Communications</i> , 2023, 41, 101636.	6.3	1
9	Highly fire safe and flexible nanoarchitectures with tunable interface towards excellent electromagnetic interference shielding. <i>Journal of Alloys and Compounds</i> , 2023, 960, 171025.	5.5	6
10	Bioinspired multifunctional high-performance electromagnetic shielding coatings resistant to extreme space environments. , 2023, 1, 100010.		2
11	Enhanced thermal properties of <sc>HDPE</sc>/<sc>EG</sc> nanocomposites via synergy of multi-source pulsating flow and phase transition. <i>Polymer Composites</i> , 2023, 44, 5781-5791.	4.6	0
12	Low-Load MXene Nanosheet/Melamine Composite Sponges for Enhanced Electromagnetic Interference Shielding. <i>ACS Applied Nano Materials</i> , 2023, 6, 10953-10959.	5.0	5
13	Poly(L-lactic acid)/graphene composite films with asymmetric sandwich structure for thermal management and electromagnetic interference shielding. <i>Chemical Engineering Journal</i> , 2023, 466, 143190.	12.7	7
14	Multifunctional Conductive Material Based on Intelligent Porous Paper Used in Conjunction with a Vitriimer for Electromagnetic Shielding, Sensing, Joule Heating, and Antibacterial Properties. <i>ACS Applied Materials & Interfaces</i> , 2023, 15, 33763-33773.	8.0	9
15	Eco-Friendly Silver Nanoparticles/Chitosan/Poly(vinyl alcohol) Composites Exhibit Remarkable EMI Shielding Capabilities and Outstanding Thermal Conductivities. <i>ACS Applied Materials & Interfaces</i> , 2023, 15, 35631-35638.	8.0	1
16	Adjustable boron nitride segregated framework in epoxy resin for high performance thermal management and flame retardant applications. <i>Composites Science and Technology</i> , 2023, 242, 110161.	7.8	7
17	Alkylated modified boron nitride nanosheets/polyimide composite films with advanced thermal conductivity and low dielectric constant. <i>Ceramics International</i> , 2023, 49, 32577-32587.	4.8	4
18	Electric-Field-Induced Alignment of Functionalized Carbon Nanotubes Inside Thermally Conductive Liquid Crystalline Polyimide Composite Films. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	13.8	36

#	ARTICLE	IF	CITATIONS
19	Electric-Field-Induced Alignment of Functionalized Carbon Nanotubes Inside Thermally Conductive Liquid Crystalline Polyimide Composite Films. <i>Angewandte Chemie</i> , 2023, 135, .	2.0	8
20	Carbonized Syndiotactic Polystyrene/Carbon Nanotube/MXene Hybrid Aerogels with Egg-Box Structure: A Platform for Electromagnetic Interference Shielding and Solar Thermal Energy Management. <i>ACS Applied Materials & Interfaces</i> , 2023, 15, 39740-39751.	8.0	4
21	Bio-inspired surface manipulation of halloysite nanotubes for high-performance flame retardant polylactic acid nanocomposites. <i>Nano Research</i> , 2024, 17, 1595-1606.	10.4	7
22	Reinforcing and toughening bacterial cellulose/MXene films assisted by interfacial multiple cross-linking for electromagnetic interference shielding and photothermal response. <i>Journal of Colloid and Interface Science</i> , 2023, 652, 1645-1652.	9.4	4
23	Direct ink writing of multifunctional gratings with gel-like MXene/norepinephrine ink for dynamic electromagnetic interference shielding and patterned Joule heating. <i>Nano Research</i> , 2024, 17, 1585-1594.	10.4	4
24	Hugely improved electromagnetic interference shielding and mechanical properties for UHMWPE composites via constructing an oriented conductive carbon nanostructures (CNS) networks. <i>Journal of Materials Research and Technology</i> , 2023, 26, 6520-6531.	5.8	0
25	Pyrolyzed cellulose/rGO aerogel composites via I2 treatment and silane surface functionalization with highly improved through-plane thermal conductivity and EMI shielding effectiveness. <i>Journal of Materials Research and Technology</i> , 2023, 26, 2782-2795.	5.8	1
26	External field-assisted techniques for polymer matrix composites with electromagnetic interference shielding. <i>Science Bulletin</i> , 2023, 68, 1938-1953.	9.0	55
27	Hot-pressing induced alignment of AlN whiskers in polymer matrix leading to enhanced in-plane thermal conductivity. <i>Ceramics International</i> , 2023, 49, 35094-35103.	4.8	1
28	Large scale fabrication of recyclable and multifunctional sandwich-structured electromagnetic interference shielding films based on waste Nylon-6 silk. <i>Materials Today Physics</i> , 2023, 36, 101177.	6.0	2
29	Utilizing a metal-forging inspired chain combing strategy to enhance properties and expand applications of Nylon 66 plastic via heat inducing. <i>Nano Research</i> , 2024, 17, 2164-2171.	10.4	0
30	Electromagnetic interference shielding of graphene/PMMA composites depending on growth temperature of CVD-graphene. <i>Synthetic Metals</i> , 2023, 299, 117464.	3.9	1
31	Fatigue-resistant polyimide aerogels with hierarchical cellular structure for broadband frequency sound absorption and thermal insulation. <i>Advanced Composites and Hybrid Materials</i> , 2023, 6, .	21.1	6
32	Construction of mechanically robust and fire safe thermoplastic polyurethane-based nanocomposites for electromagnetic interference shielding. <i>Composites Part A: Applied Science and Manufacturing</i> , 2023, 175, 107818.	7.6	3
33	Development Aramid Nanofiber- and Pentaerythritol-Grafted Graphene Nanoplate-Based High-Performance Thermally Conductive Composites. <i>Advanced Electronic Materials</i> , 2023, 9, .	5.1	0
34	Three-dimensional macroscopic absorbents: From synergistic effects to advanced multifunctionalities. <i>Nano Research</i> , 2024, 17, 1952-1983.	10.4	11
35	MOF@wood Derived Ultrathin Carbon Composite Film for Electromagnetic Interference Shielding with Effective Absorption and Electrothermal Management. <i>Advanced Functional Materials</i> , 2024, 34, .	14.9	4
36	Tunable construction of fire safe and mechanically strong hierarchical composites towards electromagnetic interference shielding. <i>Journal of Colloid and Interface Science</i> , 2023, 652, 1554-1567.	9.4	5

#	ARTICLE	IF	CITATIONS
37	Multilayer Ti ₃ C ₂ T _x MXene/graphene oxide/carbon fiber fabric/thermoplastic polyurethane composite for improved mechanical and electromagnetic interference shielding performance. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2023, 677, 132339.	4.7	3
38	Flexible Graphene/MXene Composite Thin Films for High-Performance Electromagnetic Interference Shielding and Joule Heating. <i>ACS Applied Nano Materials</i> , 2023, 6, 16730-16739.	5.0	0
39	Realizing balanced flame retardancy and electromagnetic interference shielding in hierarchical elastomer nanocomposites. <i>Journal of Colloid and Interface Science</i> , 2024, 653, 634-642.	9.4	0
40	Recent Advances of MXenes-Based Optical Functional Materials. <i>Advanced Photonics Research</i> , 2023, 4, .	3.6	20
41	Cl-terminated decoration to modulate the permittivity of MXene for enhanced electromagnetic-absorbing performance. <i>Journal of Materials Science and Technology</i> , 2024, 179, 187-197.	10.7	0
42	Flexible and Wearable Piezoresistive Sensors Based on Double Wrinkled Layers for Motion Monitoring and Human Physiological Signal Monitoring. <i>ACS Applied Electronic Materials</i> , 0, , .	4.3	0
43	Multi-layer hierarchical cellulose nanofibers/carbon nanotubes/vinasse activated carbon composite materials for supercapacitors and electromagnetic interference shielding. <i>Nano Research</i> , 2024, 17, 904-912.	10.4	11
44	High MXene loading, nacre-inspired MXene/ANF electromagnetic interference shielding composite films with ultralong strain-to-failure and excellent Joule heating performance. <i>Nano Research</i> , 2024, 17, 2061-2069.	10.4	9
45	Flexible Fluorinated Graphene/Poly(vinyl Alcohol) Films toward High Thermal Management Capability. <i>ACS Applied Materials & Interfaces</i> , 0, , .	8.0	0
46	Preparation and Properties of UV-Curable Waterborne Polyurethane Acrylate/MXene Nanocomposite Films. <i>Nanomaterials</i> , 2023, 13, 3022.	4.1	1
47	Preparation of a thermally conductive phase-change coating with good anti-corrosion. <i>Polymer Composites</i> , 2024, 45, 2546-2557.	4.6	0
48	Layered Structural PBAT Composite Foams for Efficient Electromagnetic Interference Shielding. <i>Nano-Micro Letters</i> , 2024, 16, .	27.0	24
49	Alveoli-Mimetic Synergistic Liquid and Solid Thermal Conductive Interface as a Novel Strategy for Designing High-Performance Thermal Interface Materials. <i>Small</i> , 0, , .	10.0	0
50	Synchronous deprotonation-protonation for mechanically robust chitin/aramid nanofibers conductive aerogel with excellent pressure sensing, thermal management, and electromagnetic interference shielding. <i>Nano Research</i> , 2024, 17, 2038-2049.	10.4	3
51	Carbon-based materials with combined functions of thermal management and electromagnetic protection: Preparation, mechanisms, properties, and applications. <i>Nano Research</i> , 2024, 17, 883-903.	10.4	0
52	Highly Thermoconductive, Strong Graphene-Based Composite Films by Eliminating Nanosheets Wrinkles. <i>Nano-Micro Letters</i> , 2024, 16, .	27.0	1
53	One-step in-situ preparation of C/TiO ₂ @rGO aerogel derived from Ti ₃ C ₂ T MXene for integrating microwave absorption, electromagnetic interference shielding and catalytic degradation of antibiotics. <i>Carbon</i> , 2024, 217, 118610.	10.3	3
54	Enhanced electromagnetic wave absorption of three-dimensional flower-like ZnO/TiO ₂ /Ti ₃ C ₂ T _x composites. <i>Ceramics International</i> , 2024, 50, 1918-1931.	4.8	1

#	ARTICLE	IF	CITATIONS
55	Self-assembly tungsten selenide hybrid ternary MOF derived magnetic alloys via multi-polarization to boost microwave absorption. Nano Research, 2024, 17, 1625-1635.	10.4	10
56	Robust CoFe ₂ O ₄ @Carbon Nanotube/Polydimethylsiloxane Foams with Low Thermal Conductivity for Electromagnetic Interference Shielding. ACS Applied Nano Materials, 2023, 6, 21733-21740.	5.0	0
57	MXenes and Clay Minerals in the Framework of the 2D Organic-Inorganic Hybrid Nanomaterials. Chemistry of Materials, 0, , .	6.7	1
58	In situ assembly of Fe ₃ O ₄ @FeNi ₃ spherical mesoporous nanoparticles embedded on 2D reduced graphene oxide (RGO) layers as protective barrier for EMI pollution. Applied Surface Science Advances, 2024, 19, 100545.	6.8	0
59	A Stretchable Electromagnetic Interference Shielding Fabric with Dual-Mode Passive Personal Thermal Management. Advanced Functional Materials, 0, , .	14.9	3
60	Bilayered Distribution of Ag and Fe ₃ O ₄ in Electrospun TPU Films for Low-Reflection Electromagnetic Interference Shielding and Multiple Thermal Management Functionalities. Industrial & Engineering Chemistry Research, 0, , .	3.7	0
61	Research progress on high-performance electromagnetic interference shielding materials with well-organized multilayered structures. Materials Today Physics, 2024, 40, 101330.	6.0	0
62	Large flakes of Al-Ti ₃ C ₂ T _x MXene constructing highly ordered layered MXene/ANF films with integrated multifunctionalities. Ceramics International, 2024, 50, 11379-11391.	4.8	0
63	Liquid metal based conductive textile via reactive wetting for stretchable electromagnetic shielding and electro-thermal conversion applications. Chemical Engineering Journal, 2024, 481, 148504.	12.7	0
64	Flexible, Reliable, and Lightweight Multiwalled Carbon Nanotube/Polytetrafluoroethylene Membranes with Dual-Nanofibrous Structure for Outstanding EMI Shielding and Multifunctional Applications. Small, 0, , .	10.0	0
65	Lightweight HfC nanowire-carbon fiber/graphene aerogel composites for high-efficiency electromagnetic interference shielding. Carbon, 2024, 219, 118788.	10.3	0
66	Rapid exfoliation and surface hydroxylation of high-quality boron nitride nanosheets enabling waterborne polyurethane with high thermal conductivity and flame retardancy. Advanced Composites and Hybrid Materials, 2024, 7, .	21.1	0
67	Progress in development of MXene-based nanocomposites for supercapacitor application-A review. FlatChem, 2024, 44, 100609.	5.6	0
68	Conducting polymer hollow nanostructures by surfactant-free Ouzo emulsion for an exceptional EMI shielding performance. European Polymer Journal, 2024, 206, 112771.	5.4	1
69	Electrospun nanofiber nonwovens and sponges towards practical applications of waterproofing, thermal insulation, and electromagnetic shielding/absorption. Materials Today Nano, 2024, 25, 100452.	4.6	1
70	Recent progress in smart electromagnetic interference shielding materials. Journal of Materials Science and Technology, 2024, 186, 256-271.	10.7	0
71	N-Doped Graphene/MXene Nanocomposite as a Temperature-Adaptive Neuromorphic Memristor. ACS Applied Nano Materials, 2024, 7, 3631-3644.	5.0	0
72	Multifunctional syndiotacticity-rich poly (vinyl alcohol)/MXene sediment for multilayered composite films with effective electromagnetic interference shielding and thermal conductivity. Composites Science and Technology, 2024, 249, 110490.	7.8	0

#	ARTICLE	IF	CITATIONS
73	Two-dimensional MXene nanosheets on nano-scale fibrils in hierarchical porous structure to achieve ultra-high sensitivity. <i>Nanoscale</i> , 2024, 16, 6961-6972.	5.6	0
74	Flexible, hierarchical MXene@SWNTs transparent conductive film with multi-source thermal response for electromagnetic interference shielding. <i>Composites Science and Technology</i> , 2024, 249, 110484.	7.8	0
75	Highly sensitive, anti-freeze, repairable, and conductive double-network organohydrogel for flexible pressure sensors. <i>Polymer</i> , 2024, 298, 126892.	3.8	0
76	Highly Thermally Conductive Triple-Level Ordered CNT/PVA Nanofibrous Films. <i>Polymers</i> , 2024, 16, 734.	4.5	0
77	Competitively Assembled Aramid@MXene Janus Aerogel Film Exhibiting Concurrently Robust Shielding and Effective Anti-Reflection Performance. <i>Advanced Functional Materials</i> , 0, , .	14.9	0
78	Study on improving mechanical and electromagnetic shielding performances of MXene reinforced rigid polyurethane composites. <i>Materials Today Communications</i> , 2024, 39, 108607.	1.9	0
79	Highly Thermally Conductive Polydimethylsiloxane Composites with Controllable 3D GO@f-CNTs Networks via Self-sacrificing Template Method. <i>Chinese Journal of Polymer Science (English Edition)</i> , 0, , .	3.8	0