CITATION REPORT List of articles citing

Electromagnetic interference shielding with 2D transition metal carbides (MXenes)

DOI: 10.1126/science.aag2421 Science, 2016, 353, 1137-40.

Source: https://exaly.com/paper-pdf/64198058/citation-report.pdf

Version: 2024-04-03

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
2249	Robustly Magnetic and Conductive Textile with High Electromagnetic Shielding Performance Prepared by Synchronous ThiolEne Click Chemistry.		
2248	Multifunctional Flexible Electromagnetic Interference Shielding Silver Nanowires/Cellulose Films with Excellent Thermal Management and Joule Heating Performances.		
2247			
2246	Ultralight and Highly Elastic Graphene/Lignin-Derived Carbon Nanocomposite Aerogels with Ultrahigh Electromagnetic Interference Shielding Performance.		
2245	Lightweight Ti2CTx MXene/Poly(vinyl alcohol) Composite Foams for Electromagnetic Wave Shielding with Absorption-Dominated Feature.		
2244	Two-Dimensional Ti3C2Tx MXene Membranes as Nanofluidic Osmotic Power Generators.		
2243	Ultralight Flexible, and Biomimetic Nanocellulose/Silver Nanowire Aerogels for Electromagnetic Interference Shielding.		
2242	Second Time-Scale Synthesis of High-Quality Graphite Films by Quenching for Effective Electromagnetic Interference Shielding.		
2241	Stiff Thermally Stable and Highly Anisotropic Wood-Derived Carbon Composite Monoliths for Electromagnetic Interference Shielding.		
2240	Ultralight and Flexible Polyurethane/Silver Nanowire Nanocomposites with Unidirectional Pores for Highly Effective Electromagnetic Shielding.		
2239	Ultrathin Biomimetic Polymeric Ti3C2Tx MXene Composite Films for Electromagnetic Interference Shielding.		
2238	Promising Ti3C2Tx MXene/Ni Chain Hybrid with Excellent Electromagnetic Wave Absorption and Shielding Capacity.		
2237	An Update from Flatland. 2016 , 10, 8121-3		12
2236	High shielding effectiveness of multilayer graphene oxide aerogel film/polymer composites. 2016 , 6, 92168-92174		25
2235	A mechanistic study on graphene-based nonvolatile ReRAM devices. 2016 , 4, 11007-11031		23
2234	MXene as a novel intercalation-type pseudocapacitive cathode and anode for capacitive deionization. 2016 , 4, 18265-18271		247
2233	Ultralight, super-elastic and volume-preserving cellulose fiber/graphene aerogel for high-performance electromagnetic interference shielding. 2017 , 115, 629-639		163

(2017-2017)

2232	Carbon Hollow Microspheres with a Designable Mesoporous Shell for High-Performance Electromagnetic Wave Absorption. 2017 , 9, 6332-6341	319
2231	A comparative study on electromagnetic interference shielding behaviors of chemically reduced and thermally reduced graphene aerogels. 2017 , 492, 112-118	30
2230	Enhanced Microwave Absorption Properties by Tuning Cation Deficiency of Perovskite Oxides of Two-Dimensional LaFeO/C Composite in X-Band. 2017 , 9, 7601-7610	86
2229	Layered ternary Mn+1AXnphases and their 2D derivative MXene: an overview from a thin-film perspective. 2017 , 50, 113001	157
2228	2D metal carbides and nitrides (MXenes) for energy storage. 2017 , 2,	3469
2227	Atomic layer deposition of SnO2 on MXene for Li-ion battery anodes. 2017 , 34, 249-256	307
2226	Dispersions of Two-Dimensional Titanium Carbide MXene in Organic Solvents. 2017 , 29, 1632-1640	421
2225	Tunable electromagnetic interference shielding effectiveness via multilayer assembly of regenerated cellulose as a supporting substrate and carbon nanotubes/polymer as a functional layer. 2017 , 5, 3130-3138	92
2224	Hierarchical porous Ni@boehmite/nickel aluminum oxide flakes with enhanced microwave absorption ability. 2017 , 19, 9128-9136	98
2223	Structures and Mechanical and Electronic Properties of the Ti2CO2 MXene Incorporated with Neighboring Elements (Sc, V, B and N). 2017 , 46, 2460-2466	42
2222	Constructing hierarchical hollow CuS microspheres via a galvanic replacement reaction and their use as wide-band microwave absorbers. 2017 , 19, 2178-2186	98
2221	Controllable magnitude and anisotropy of the electrical conductivity of HfCO MXene. 2017 , 29, 165701	22
2220	Facile design of a ZnO nanorodNi coreBhell composite with dual peaks to tune its microwave absorption properties. 2017 , 7, 9294-9302	90
2219	Electronic properties and applications of MXenes: a theoretical review. 2017 , 5, 2488-2503	498
2218	Charge transfer induced polymerization of EDOT confined between 2D titanium carbide layers. 2017 , 5, 5260-5265	107
2217	Enhanced thermal properties of poly(vinylidene fluoride) composites with ultrathin nanosheets of MXene. 2017 , 7, 20494-20501	131
2216	Metal organic framework (MOF)-derived carbonaceous Co3O4/Co microframes anchored on RGO with enhanced electromagnetic wave absorption performances. 2017 , 228, 32-40	84
2215	Electromagnetic interference shielding effectiveness of polyaniline-nickel oxide coated cenosphere composite film. 2017 , 4, 37-42	47

2214	Comparative study of EMI shielding effectiveness for carbon fiber pultruded polypropylene/poly(lactic acid)/multiwall CNT composites prepared by injection molding versus screw extrusion. 2017 , 134, 45222	16
2213	Facile preparation of in situ coated Ti3C2Tx/Ni0.5Zn0.5Fe2O4 composites and their electromagnetic performance. 2017 , 7, 24698-24708	108
2212	Oxidation Stability of Colloidal Two-Dimensional Titanium Carbides (MXenes). 2017 , 29, 4848-4856	652
2211	Facile Synthesis and Hierarchical Assembly of Flowerlike NiO Structures with Enhanced Dielectric and Microwave Absorption Properties. 2017 , 9, 16404-16416	236
2210	TiC MXene-Derived Sodium/Potassium Titanate Nanoribbons for High-Performance Sodium/Potassium Ion Batteries with Enhanced Capacities. 2017 , 11, 4792-4800	412
2209	Two-dimensional MoC MXene with divacancy ordering prepared from parent 3D laminate with in-plane chemical ordering. 2017 , 8, 14949	334
2208	Template-free 3D titanium carbide (TiCT) MXene particles crumpled by capillary forces. 2016 , 53, 400-403	195
2207	Magnetotransport in the MAX phases and their 2D derivatives: MXenes. 2017 , 5, 365-378	37
2206	Density-tunable lightweight polymer composites with dual-functional ability of efficient EMI shielding and heat dissipation. 2017 , 9, 13432-13440	77
2205	Carbon Nanotube-Multilayered Graphene Edge Plane Core-Shell Hybrid Foams for Ultrahigh-Performance Electromagnetic-Interference Shielding. 2017 , 29, 1701583	379
2204	High Strain Tolerant EMI Shielding Using Carbon Nanotube Network Stabilized Rubber Composite. 2017 , 2, 1700078	112
2203	Graphene paper for exceptional EMI shielding performance using large-sized graphene oxide sheets and doping strategy. 2017 , 122, 74-81	145
2202	Synthesis and electromagnetic wave absorption properties of matrimony vine-like iron oxide/reduced graphene oxide prepared by a facile method. 2017 , 719, 296-307	43
2201	Laminated and Two-Dimensional Carbon-Supported Microwave Absorbers Derived from MXenes. 2017 , 9, 20038-20045	229
2200	Preparation and characterization of polymer-Ti3C2Tx (MXene) composite nanofibers produced via electrospinning. 2017 , 134, 45295	78
2199	Flexible, Ultrathin, and High-Efficiency Electromagnetic Shielding Properties of Poly(Vinylidene Fluoride)/Carbon Composite Films. 2017 , 9, 20873-20884	185
2198	Stiff, Thermally Stable and Highly Anisotropic Wood-Derived Carbon Composite Monoliths for Electromagnetic Interference Shielding. 2017 , 9, 21371-21381	94
2197	Constructing 3D Graphene Networks in Polymer Composites for Significantly Improved Electrical and Mechanical Properties. 2017 , 9, 22006-22017	32

(2017-2017)

2196	material with significantly enhanced [polymorphism, dielectric and microwave shielding properties. 2017 , 90, 442-455	27
2195	Inorganic Nanowires-Assembled Layered Paper as the Valve for Controlling Water Transportation. 2017 , 9, 11045-11053	11
2194	MXene TiC: An Effective 2D Light-to-Heat Conversion Material. 2017, 11, 3752-3759	752
2193	Ti3C2 MXenes modified with in situ grown carbon nanotubes for enhanced electromagnetic wave absorption properties. 2017 , 5, 4068-4074	224
2192	Flexible, thin films of graphenepolymer composites for EMI shielding. 2017 , 4, 035605	38
2191	Single-source-precursor derived RGO/CNTs-SiCN ceramic nanocomposite with ultra-high electromagnetic shielding effectiveness. 2017 , 130, 83-93	64
2190	Electrochemical performance of TiCT MXene in aqueous media: towards ultrasensitive H2O2 sensing. 2017 , 235, 471-479	151
2189	High-Throughput Survey of Ordering Configurations in MXene Alloys Across Compositions and Temperatures. 2017 , 11, 4407-4418	97
2188	Transparent, conductive solution processed spincast 2D Ti2CTx (MXene) films. 2017, 5, 391-398	96
2187	High-temperature electromagnetic interference shielding of layered Ti3AlC2 ceramics. 2017 , 134, 47-51	17
2186	Rational Design of Two-Dimensional Metallic and Semiconducting Spintronic Materials Based on Ordered Double-Transition-Metal MXenes. 2017 , 8, 422-428	115
2185	Strain-mediated type-I/type-II transition in MXene/Blue phosphorene van der Waals heterostructures for flexible optical/electronic devices. 2017 , 5, 978-984	117
2184	High-performance hierarchical graphene/metal-mesh film for optically transparent electromagnetic interference shielding. 2017 , 115, 34-42	92
2183	Recent progress in layered transition metal carbides and/or nitrides (MXenes) and their composites: synthesis and applications. 2017 , 5, 3039-3068	460
2182	A highly flexible and sensitive piezoresistive sensor based on MXene with greatly changed interlayer distances. 2017 , 8, 1207	378
2181	Graphene-Based Sandwich Structures for Frequency Selectable Electromagnetic Shielding. 2017 , 9, 36119-36	12 <u>9</u> 2
2180	MXene/graphene hybrid fibers for high performance flexible supercapacitors. 2017 , 5, 22113-22119	212
2179	Recent advance in MXenes: A promising 2D material for catalysis, sensor and chemical adsorption. 2017 , 352, 306-327	315

2178	Highly Conductive Transition Metal Carbide/Carbonitride(MXene)@polystyrene Nanocomposites Fabricated by Electrostatic Assembly for Highly Efficient Electromagnetic Interference Shielding. 2017 , 27, 1702807	407
2177	Electronic, Magnetic, and Catalytic Properties of Thermodynamically Stable Two-Dimensional Transition-Metal Phosphides. 2017 , 29, 8892-8900	49
2176	Room Temperature Gas Sensing of Two-Dimensional Titanium Carbide (MXene). 2017, 9, 37184-37190	314
2175	Performance Vs Convenience of Magnetic Carbon-Metal Nanocomposites: A Low-Cost and Facile Citrate-Derived Strategy for Feco Alloy/Carbon Composites with High-Performance Microwave Absorption. 2017 , 37, 301-326	11
2174	Two-Dimensional Vanadium Carbide (MXene) as a High-Capacity Cathode Material for Rechargeable Aluminum Batteries. 2017 , 11, 11135-11144	272
2173	A Two-Dimensional Biodegradable Niobium Carbide (MXene) for Photothermal Tumor Eradication in NIR-I and NIR-II Biowindows. 2017 , 139, 16235-16247	656
2172	Effects of processing methods on the electrical conductivity, electromagnetic parameters, and EMI shielding effectiveness of polypropylene/nickel-coated carbon fiber composites. 2017 , 25, 936-943	31
2171	Guidelines for Synthesis and Processing of Two-Dimensional Titanium Carbide (Ti3C2Tx MXene). 2017 , 29, 7633-7644	1689
2170	Two-Dimensional Titanium Carbide (MXene) as Surface-Enhanced Raman Scattering Substrate. 2017 , 121, 19983-19988	179
2169	2D metal carbides (MXenes) in fibers. 2017 , 20, 481-482	20
2168	Sulfonated Ti3C2Tx to construct proton transfer pathways in polymer electrolyte membrane for enhanced conduction. 2017 , 310, 100-111	19
2167	Facile solvothermal synthesis of novel hetero-structured CoNituO composites with excellent microwave absorption performance. 2017 , 7, 43689-43699	19
2166	Dielectric polarization in electromagnetic wave absorption: Review and perspective. 2017 , 728, 1065-1075	240
21662165	Dielectric polarization in electromagnetic wave absorption: Review and perspective. 2017 , 728, 1065-1075 In Situ Stringing of Metal Organic Frameworks by SiC Nanowires for High-Performance Electromagnetic Radiation Elimination. 2017 , 9, 33041-33048	240 51
	In Situ Stringing of Metal Organic Frameworks by SiC Nanowires for High-Performance	
2165	In Situ Stringing of Metal Organic Frameworks by SiC Nanowires for High-Performance Electromagnetic Radiation Elimination. 2017 , 9, 33041-33048 MoS-Based Mixed-Dimensional van der Waals Heterostructures: A New Platform for Excellent and	51
2165 2164	In Situ Stringing of Metal Organic Frameworks by SiC Nanowires for High-Performance Electromagnetic Radiation Elimination. 2017, 9, 33041-33048 MoS-Based Mixed-Dimensional van der Waals Heterostructures: A New Platform for Excellent and Controllable Microwave-Absorption Performance. 2017, 9, 34243-34255 Microwave properties of the single-layer periodic structure composites composed of ethylene-vinyl	51 96

(2017-2017)

Ultralight and Flexible Polyurethane/Silver Nanowire Nanocomposites with Unidirectional Pores for Highly Effective Electromagnetic Shielding. 2017 , 9, 32211-32219	112
Synergistically assembled MWCNT/graphene foam with highly efficient microwave absorption in both C and X bands. 2017 , 124, 506-514	214
Direct Synthesis of Large-Area 2D Mo C on In Situ Grown Graphene. 2017 , 29, 1700072	195
Electromagnetic wave absorption properties of a carbon nanotube modified by a tetrapyridinoporphyrazine interface layer. 2017 , 5, 7479-7488	116
An ultra-thin multilayer carbon fiber reinforced composite for absorption-dominated EMI shielding application. 2017 , 207, 165-168	33
Hollow MXene Spheres and 3D Macroporous MXene Frameworks for Na-Ion Storage. 2017 , 29, 1702410	465
MXeneBilicon Van Der Waals Heterostructures for High-Speed Self-Driven Photodetectors. 2017 , 3, 1700165	106
Lightweight, thermally insulating and stiff carbon honeycomb-induced graphene composite foams with a horizontal laminated structure for electromagnetic interference shielding. 2017 , 123, 223-232	63
Transparent, Flexible, and Conductive 2D Titanium Carbide (MXene) Films with High Volumetric Capacitance. 2017 , 29, 1702678	538
Metallic MXene Saturable Absorber for Femtosecond Mode-Locked Lasers. 2017 , 29, 1702496	295
A controllable heterogeneous structure and electromagnetic wave absorption properties of Ti2CTx MXene. 2017 , 5, 7621-7628	121
Microstructure Design of Lightweight, Flexible, and High Electromagnetic Shielding Porous Multiwalled Carbon Nanotube/Polymer Composites. 2017 , 13, 1701388	118
Chemical Origin of Termination-Functionalized MXenes: Ti3C2T2 as a Case Study. 2017 , 121, 19254-19261	118
Light and Strong Hierarchical Porous SiC Foam for Efficient Electromagnetic Interference Shielding and Thermal Insulation at Elevated Temperatures. 2017 , 9, 29950-29957	97
Hydrophobic, Flexible, and Lightweight MXene Foams for High-Performance Electromagnetic-Interference Shielding. 2017 , 29, 1702367	903
Lightweight flexible carbon nanotube/polyaniline films with outstanding EMI shielding properties. 2017 , 5, 8694-8698	52
Ultralow percolation threshold and enhanced electromagnetic interference shielding in poly(L-lactide)/multi-walled carbon nanotube nanocomposites with electrically conductive segregated networks. 2017 , 5, 9359-9369	276
A strong and tough polymerlarbon nanotube film for flexible and efficient electromagnetic interference shielding. 2017 , 5, 8944-8951	83
	Synergistically assembled MWCNT/graphene foam with highly efficient microwave absorption in both C and X bands. 2017, 124, 506-514 Direct Synthesis of Large-Area 2D Mo C on In Situ Grown Graphene. 2017, 29, 1700072 Electromagnetic wave absorption properties of a carbon nanotube modified by a tetrapyridinoporphyrazine interface layer. 2017, 5, 7479-7488 An ultra-thin multilayer carbon fiber reinforced composite for absorption-dominated EMI shielding application. 2017, 207, 165-168 Hollow MXene Spheres and 3D Macroporous MXene Frameworks for Na-Ion Storage. 2017, 29, 1702410 MXeneBillicon Van Der Waals Heterostructures for High-Speed Self-Driven Photodetectors. 2017, 3, 1700165 Lightweight, thermally insulating and stiff carbon honeycomb-induced graphene composite foams with a horizontal laminated structure for electromagnetic interference shielding. 2017, 123, 223-232 Transparent, Flexible, and Conductive 2D Titanium Carbide (MXene) Films with High Volumetric Capacitance. 2017, 29, 1702678 Metallic MXene Saturable Absorber for Femtosecond Mode-Locked Lasers. 2017, 29, 1702496 A controllable heterogeneous structure and electromagnetic wave absorption properties of Ti2CTx MXene. 2017, 5, 7621-7628 Microstructure Design of Lightweight, Flexible, and High Electromagnetic Shielding Porous Multiwalled Carbon Nanotube/Polymer Composites. 2017, 13, 1701388 Chemical Origin of Termination-Functionalized MXenes: Ti3C2T2 as a Case Study. 2017, 121, 19254-19261 Light and Strong Hierarchical Porous SiC Foam for Efficient Electromagnetic Interference Shielding and Thermal Insulation at Elevated Temperatures. 2017, 9, 29950-29957 Hydrophobic, Flexible, and Lightweight MXene Foams for High-Performance Electromagnetic-Interference Shielding. 2017, 5, 8694-8698 Ultralow percolation threshold and enhanced electromagnetic interference shielding in polyt-Lactide)/multi-walled carbon nanotube honocomposites with electrically conductive segregated networks. 2017, 5, 9359-9369 Astrong and tough polymerőarbon nanotube film

2142	Facile preparation of a high-quality copper layer on epoxy resin via electroless plating for applications in electromagnetic interference shielding. 2017 , 5, 12769-12776	30
2141	Highly Stretchable and Transparent Electromagnetic Interference Shielding Film Based on Silver Nanowire Percolation Network for Wearable Electronics Applications. 2017 , 9, 44609-44616	187
2140	Thin and Flexible Fe-Si-B/Ni-Cu-P Metallic Glass Multilayer Composites for Efficient Electromagnetic Interference Shielding. 2017 , 9, 42192-42199	47
2139	Carbon vacancies in TiCT MXenes: defects or a new opportunity?. 2017 , 19, 31773-31780	57
2138	Large-area potassium-doped highly conductive graphene films for electromagnetic interference shielding. 2017 , 9, 18613-18618	41
2137	Nanolasers Enabled by Metallic Nanoparticles: From Spasers to Random Lasers. 2017 , 11, 1700212	50
2136	Three-dimensional nanostructured graphene: Synthesis and energy, environmental and biomedical applications. 2017 , 234, 53-85	103
2135	Easily fabricated and lightweight PPy/PDA/AgNW composites for excellent electromagnetic interference shielding. 2017 , 9, 18318-18325	102
2134	2D molybdenum and vanadium nitrides synthesized by ammoniation of 2D transition metal carbides (MXenes). 2017 , 9, 17722-17730	192
2133	Selective Molecular Separation on TiCT-Graphene Oxide Membranes during Pressure-Driven Filtration: Comparison with Graphene Oxide and MXenes. 2017 , 9, 44687-44694	116
2132	1D Cu@Ni nanorods anchored on 2D reduced graphene oxide with interfacial engineering to enhance microwave absorption properties. 2017 , 19, 6579-6587	53
2131	Electromagnetic interference shielding effectiveness of titanium carbide sheets. 2017 , 205, 261-263	45
2130	Single-source-precursor synthesis and electromagnetic properties of novel RGOBiCN ceramic nanocomposites. 2017 , 5, 7950-7960	35
2129	Recent trends in multi-layered architectures towards screening electromagnetic radiation: challenges and perspectives. 2017 , 5, 7390-7403	78
2128	Ultrahigh electromagnetic interference shielding performance of lightweight, flexible, and highly conductive copper-clad carbon fiber nonwoven fabrics. 2017 , 5, 7853-7861	65
2127	Thermoelectric Properties of Two-Dimensional Molybdenum-Based MXenes. 2017 , 29, 6472-6479	163
2126	Current rectification induced by V-doped and Sc-doped in Ti2CO2 devices. 2017 , 138, 175-182	10
2125	Electromagnetic interference shielding based on a high strength polyaniline-aramid nanocomposite. 2017 , 149, 159-165	46

(2018-2017)

2124	Synthesis of Multifunctional Electrically Tunable Fluorine-Doped Reduced Graphene Oxide at Low Temperatures. 2017 , 9, 24179-24189	37
2123	Flexible MXene/Graphene Films for Ultrafast Supercapacitors with Outstanding Volumetric Capacitance. 2017 , 27, 1701264	934
2122	Mechanical and electromagnetic shielding performance of carbon fiber reinforced multilayered (PyC-SiC)n matrix composites. 2017 , 111, 299-308	78
2121	Fabrication of Porous Silicon Carbide Ceramics with High Electromagnetic Interference Shielding Effectiveness. 2017 , 2, 11131-11136	2
2120	Inorganic analogues of graphene. 2017 , 75-101	2
2119	Rheological Characteristics of 2D Titanium Carbide (MXene) Dispersions: A Guide for Processing MXenes. 2018 , 12, 2685-2694	155
2118	Synergistically enhanced lithium storage performance based on titanium carbide nanosheets (MXene) backbone and SnO2 quantum dots. 2018 , 268, 503-511	54
2117	Mechanistic Quantification of Thermodynamic Stability and Mechanical Strength for Two-Dimensional Transition-Metal Carbides. 2018 , 122, 4710-4722	22
2116	Effect of glycine functionalization of 2D titanium carbide (MXene) on charge storage. 2018 , 6, 4617-4622	74
2115	Selective Etching of Silicon from Ti SiC (MAX) To Obtain 2D Titanium Carbide (MXene). 2018 , 57, 5444-5448	185
2115	Selective Etching of Silicon from Ti SiC (MAX) To Obtain 2D Titanium Carbide (MXene). 2018 , 57, 5444-5448 Direct Growth of Edge-Rich Graphene with Tunable Dielectric Properties in Porous Si3N4 Ceramic for Broadband High-Performance Microwave Absorption. 2018 , 28, 1707205	185 294
2114	Direct Growth of Edge-Rich Graphene with Tunable Dielectric Properties in Porous Si3N4 Ceramic	
2114	Direct Growth of Edge-Rich Graphene with Tunable Dielectric Properties in Porous Si3N4 Ceramic for Broadband High-Performance Microwave Absorption. 2018 , 28, 1707205	294
2114	Direct Growth of Edge-Rich Graphene with Tunable Dielectric Properties in Porous Si3N4 Ceramic for Broadband High-Performance Microwave Absorption. 2018 , 28, 1707205 Oxide Thin-Film Electronics using All-MXene Electrical Contacts. 2018 , 30, e1706656 Tailored distribution of nanoparticles in bi-phasic polymeric blends as emerging materials for	294
2114 2113 2112	Direct Growth of Edge-Rich Graphene with Tunable Dielectric Properties in Porous Si3N4 Ceramic for Broadband High-Performance Microwave Absorption. 2018, 28, 1707205 Oxide Thin-Film Electronics using All-MXene Electrical Contacts. 2018, 30, e1706656 Tailored distribution of nanoparticles in bi-phasic polymeric blends as emerging materials for suppressing electromagnetic radiation: challenges and prospects. 2018, 6, 3120-3142	294 113 56
2114 2113 2112 2111	Direct Growth of Edge-Rich Graphene with Tunable Dielectric Properties in Porous Si3N4 Ceramic for Broadband High-Performance Microwave Absorption. 2018, 28, 1707205 Oxide Thin-Film Electronics using All-MXene Electrical Contacts. 2018, 30, e1706656 Tailored distribution of nanoparticles in bi-phasic polymeric blends as emerging materials for suppressing electromagnetic radiation: challenges and prospects. 2018, 6, 3120-3142 Insights into exfoliation possibility of MAX phases to MXenes. 2018, 20, 8579-8592 Efficient electromagnetic interference shielding of lightweight carbon nanotube/polyethylene	294 113 56
2114 2113 2112 2111 2110	Direct Growth of Edge-Rich Graphene with Tunable Dielectric Properties in Porous Si3N4 Ceramic for Broadband High-Performance Microwave Absorption. 2018, 28, 1707205 Oxide Thin-Film Electronics using All-MXene Electrical Contacts. 2018, 30, e1706656 Tailored distribution of nanoparticles in bi-phasic polymeric blends as emerging materials for suppressing electromagnetic radiation: challenges and prospects. 2018, 6, 3120-3142 Insights into exfoliation possibility of MAX phases to MXenes. 2018, 20, 8579-8592 Efficient electromagnetic interference shielding of lightweight carbon nanotube/polyethylene composites compression molding plus salt-leaching 2018, 8, 8849-8855 Electromagnetic wave absorption properties in the centimetre-band of Ti3C2Tx MXenes with	294 113 56 108

2106	Graphene aerogel films with expansion enhancement effect of high-performance electromagnetic interference shielding. 2018 , 135, 44-51	92
2105	g-C3N4/Ti3C2Tx (MXenes) composite with oxidized surface groups for efficient photocatalytic hydrogen evolution. 2018 , 6, 9124-9131	162
2104	Thermal Instability Induced Oriented 2D Pores for Enhanced Sodium Storage. 2018 , 14, e1800639	33
2103	Phonon-mediated stabilization and softening of 2D transition metal carbides: case studies of TiCO and MoCO. 2018 , 20, 14608-14618	6
2102	Bipolar magnetic semiconductors among intermediate states during the conversion from ScC(OH) to ScCO MXene. 2018 , 10, 8763-8771	18
2101	Fluorine-Free Synthesis of High-Purity Ti3C2Tx (T=OH, O) via Alkali Treatment. 2018 , 130, 6223-6227	29
21 00	Flexible and conductive PP/EPDM/Ni coated glass fiber composite for efficient electromagnetic interference shielding. 2018 , 29, 10329-10336	13
2099	Tailoring Structure, Composition, and Energy Storage Properties of MXenes from Selective Etching of In-Plane, Chemically Ordered MAX Phases. 2018 , 14, e1703676	99
2098	Formation of quasi-core-shell In2S3/anatase TiO2@metallic Ti3C2Tx hybrids with favorable charge transfer channels for excellent visible-light-photocatalytic performance. 2018 , 233, 213-225	211
2097	A general strategy for the synthesis of two-dimensional holey nanosheets as cathodes for superior energy storage. 2018 , 6, 8374-8381	21
2096	W-Based Atomic Laminates and Their 2D Derivative W C MXene with Vacancy Ordering. 2018 , 30, e1706409	145
2095	Fluorine-Free Synthesis of High-Purity Ti C T (T=OH, O) via Alkali Treatment. 2018 , 57, 6115-6119	387
2094	Ultrathin 2D Transition Metal Carbides for Ultrafast Pulsed Fiber Lasers. 2018 , 5, 1808-1816	96
2093	Novel Scale-Like Structures of Graphite/TiC/Ti3C2 Hybrids for Electromagnetic Absorption. 2018 , 4, 1700617	61
2092	Highly Self-Healable 3D Microsupercapacitor with MXene-Graphene Composite Aerogel. 2018 , 12, 4224-4232	375
2091	Excellent NiO-Ni Nanoplate Microwave Absorber via Pinning Effect of Antiferromagnetic-Ferromagnetic Interface. 2018 , 10, 15104-15111	27
2090	Effects of etching temperature and ball milling on the preparation and capacitance of Ti3C2 MXene. 2018 , 752, 32-39	37
2089	Wool-Ball-Type Core-Dual-Shell FeCo@SiO2@MWCNTs Microcubes for Screening Electromagnetic Interference. 2018 , 1, 2261-2271	15

2088	Electromagnetic interference shielding performance of nano-layered Ti3SiC2 ceramics at high-temperatures. 2018 , 8, 015027	12
2087	Recent progress on nanostructured conducting polymers and composites: synthesis, application and future aspects. 2018 , 61, 303-352	140
2086	Ultrasonic assisted etching and delaminating of Ti3C2 Mxene. 2018 , 44, 7084-7087	21
2085	Recent Advances in Layered Ti C T MXene for Electrochemical Energy Storage. 2018, 14, e1703419	478
2084	Sandwich-like Na0.23TiO2 nanobelt/Ti3C2 MXene composites from a scalable in situ transformation reaction for long-life high-rate lithium/sodium-ion batteries. 2018 , 46, 20-28	109
2083	Towards flexible solid-state supercapacitors for smart and wearable electronics. 2018 , 47, 2065-2129	936
2082	2D Ultrathin MXene-Based Drug-Delivery Nanoplatform for Synergistic Photothermal Ablation and Chemotherapy of Cancer. 2018 , 7, e1701394	181
2081	Suppressing Electromagnetic Radiation by Trapping Ferrite Nanoparticles and Carbon Nanotubes in Hierarchical Nanoporous Structures Designed by Crystallization-Induced Phase Separation. 2018 , 3, 1189-1207	l ¹⁶
2080	Enhanced Terahertz Shielding of MXenes with Nano-Metamaterials. 2018 , 6, 1701076	100
2079	Intriguing electronic structures and optical properties of two-dimensional van der Waals heterostructures of Zr2CT2 (T = O , F) with MoSe2 and WSe2. 2018 , 6, 2830-2839	43
2078	3D Graphene Fibers Grown by Thermal Chemical Vapor Deposition. 2018 , 30, e1705380	71
2077	Ultralight and Highly Elastic Graphene/Lignin-Derived Carbon Nanocomposite Aerogels with Ultrahigh Electromagnetic Interference Shielding Performance. 2018 , 10, 8205-8213	110
2076	Metallic MoN Layer and its Application as Anode for Lithium-ion Batteries. 2018,	8
2075	Segregated reduced graphene oxide polymer composite as a high performance electromagnetic interference shield. 2018 , 44, 4707-4719	23
2074	Clay-Inspired MXene-Based Electrochemical Devices and Photo-Electrocatalyst: State-of-the-Art Progresses and Challenges. 2018 , 30, e1704561	301
2073	Metallic TiCT MXene Gas Sensors with Ultrahigh Signal-to-Noise Ratio. 2018 , 12, 986-993	664
2072	Fabrication of 3D net-like MWCNTs/ZnFe2O4 hybrid composites as high-performance electromagnetic wave absorbers. 2018 , 337, 242-255	194
2071	Simultaneously improved electromagnetic interference shielding and mechanical performance of segregated carbon nanotube/polypropylene composite via solid phase molding. 2018 , 156, 87-94	158

2070	Assembly and Self-Assembly of Nanomembrane Materials-From 2D to 3D. 2018 , 14, e1703665	40
2069	Composites of Proteins and 2D Nanomaterials. 2018 , 28, 1704990	31
2068	Tuning the Basal Plane Functionalization of Two-Dimensional Metal Carbides (MXenes) To Control Hydrogen Evolution Activity. 2018 , 1, 173-180	192
2067	Highly Broadband Absorber Using Plasmonic Titanium Carbide (MXene). 2018 , 5, 1115-1122	162
2066	MXene molecular sieving membranes for highly efficient gas separation. 2018 , 9, 155	530
2065	TiC MXene: a promising microwave absorbing material 2018 , 8, 2398-2403	109
2064	Saturable Absorption in 2D Ti C MXene Thin Films for Passive Photonic Diodes. 2018 , 30, 1705714	213
2063	Stamping of Flexible, Coplanar Micro-Supercapacitors Using MXene Inks. 2018 , 28, 1705506	322
2062	Electromagnetic interference shielding and absorption properties of Ti3SiC2/nano Cu/epoxy resin coating. 2018 , 740, 68-76	41
2061	A three-dimensional multilayer graphene web for polymer nanocomposites with exceptional transport properties and fracture resistance. 2018 , 5, 275-284	87
2060	3D assembly of TiC-MXene directed by water/oil interfaces. 2018 , 10, 3621-3625	60
2059	Facile fabrication of highly conductive polystyrene/nanocarbon composites with robust interconnected network via electrostatic attraction strategy. 2018 , 6, 550-557	22
2058	Epitaxial Synthesis of Molybdenum Carbide and Formation of a MoC/MoS Hybrid Structure via Chemical Conversion of Molybdenum Disulfide. 2018 , 12, 338-346	105
2057	Lightweight, flexible and strong core-shell non-woven fabrics covered by reduced graphene oxide for high-performance electromagnetic interference shielding. 2018 , 130, 59-68	110
2056	Ultrathin Titanate Nanosheets/Graphene Films Derived from Confined Transformation for Excellent Na/K Ion Storage. 2018 , 57, 8540-8544	140
2055	Constructing highly oriented segregated structure towards high-strength carbon nanotube/ultrahigh-molecular-weight polyethylene composites for electromagnetic interference shielding. 2018 , 110, 237-245	66
2054	Novel two-dimensional Ti3C2Tx MXenes/nano-carbon sphere hybrids for high-performance microwave absorption. 2018 , 6, 5690-5697	148
2053	A nanoporous MXene film enables flexible supercapacitors with high energy storage. 2018 , 10, 9642-9652	112

2052	Efficient nitrogen fixation to ammonia on MXenes. 2018 , 20, 14504-14512	65
2051	Binary Strengthening and Toughening of MXene/Cellulose Nanofiber Composite Paper with Nacre-Inspired Structure and Superior Electromagnetic Interference Shielding Properties. 2018 , 12, 4583-459	3 ⁵⁶⁰
2050	Tunable pseudocapacitance storage of MXene by cation pillaring for high performance sodium-ion capacitors. 2018 , 6, 7794-7806	121
2049	Superflexible Interconnected Graphene Network Nanocomposites for High-Performance Electromagnetic Interference Shielding. 2018 , 3, 3599-3607	31
2048	3D Synergistical MXene/Reduced Graphene Oxide Aerogel for a Piezoresistive Sensor. 2018 , 12, 3209-3216	415
2047	Magnetic graphene enabled tunable microwave absorber via thermal control. 2018 , 29, 245706	36
2046	Layer-by-layer assembly of MXene and carbon nanotubes on electrospun polymer films for flexible energy storage. 2018 , 10, 6005-6013	124
2045	Lightweight reduced graphene oxide-FeO nanoparticle composite in the quest for an excellent electromagnetic interference shielding material. 2018 , 29, 245203	27
2044	Constructing flower-like porous Bi0.9La0.1FeO3 microspheres for excellent electromagnetic wave absorption performances. 2018 , 745, 761-772	16
2043	Highly Efficient and Reliable Transparent Electromagnetic Interference Shielding Film. 2018 , 10, 11941-11949	189
2042	Peaked dielectric responses in Ti3C2 MXene nanosheets enabled composites with efficient microwave absorption. 2018 , 123, 104103	61
2041	YolkBhell structured Co-C/Void/Co9S8 composites with a tunable cavity for ultrabroadband and efficient low-frequency microwave absorption. 2018 , 11, 4169-4182	94
2040	Hydro-sensitive sandwich structures for self-tunable smart electromagnetic shielding. 2018 , 344, 342-352	50
2039	Flexible, lightweight carbon nanotube sponges and composites for high-performance electromagnetic interference shielding. 2018 , 133, 457-463	135
2038	Graphene nanohybrids: excellent electromagnetic properties for the absorbing and shielding of electromagnetic waves. 2018 , 6, 4586-4602	351
2037	Porous-carbon-based MoC nanocomposites as excellent microwave absorber: a new exploration. 2018 , 10, 6945-6953	107
2036	Selective Etching of Silicon from Ti3SiC2 (MAX) To Obtain 2D Titanium Carbide (MXene). 2018 , 130, 5542-5540	5 56
2035	Investigating mechanical, dielectric, and electromagnetic interference shielding properties of polymer blends and three component hybrid composites based on polyvinyl alcohol, polyaniline, and few layer graphene. 2018 , 39, 3686-3695	17

2034	Flexible design of gradient multilayer nanofilms coated on carbon nanofibers by atomic layer deposition for enhanced microwave absorption performance. 2018 , 11, 530-541	59
2033	Enhanced Microwave Absorption Properties of Double-Layer Absorbers Based on Spherical NiO and Co0.2Ni0.4Zn0.4Fe2O4 Ferrite Composites. 2018 , 31, 171-179	23
2032	Broadband Nonlinear Photonics in Few-Layer MXene Ti3C2Tx (T = F, O, or OH). 2018 , 12, 1700229	438
2031	Hybridizing polypyrrole chains with laminated and two-dimensional Ti3C2Tx toward high-performance electromagnetic wave absorption. 2018 , 434, 283-293	96
2030	Design of dual-frequency electromagnetic wave absorption by interface modulation strategy. 2018 , 334, 153-161	81
2029	Facile synthesis and microwave absorption properties of yolk-shell ZnO-Ni-C/RGO composite materials. 2018 , 333, 92-100	82
2028	Asymmetric Flexible MXene-Reduced Graphene Oxide Micro-Supercapacitor. 2018, 4, 1700339	244
2027	Preparation, microstructure, electromagnetic property and microwave absorption property of MoS2 nanopowder by hydrothermal method at various reaction temperatures. 2018 , 29, 4020-4029	12
2026	First-principles study of a MXene terahertz detector. 2017 , 10, 69-75	48
2025	Theranostic 2D Tantalum Carbide (MXene). 2018 , 30, 1703284	279
2024	Metallic MXenes: A new family of materials for flexible triboelectric nanogenerators. 2018 , 44, 103-110	178
2024	Metallic MXenes: A new family of materials for flexible triboelectric nanogenerators. 2018 , 44, 103-110 Ratiometric photoluminescence sensing based on TiC MXene quantum dots as an intracellular pH sensor. 2018 , 10, 1111-1118	178 168
,	Ratiometric photoluminescence sensing based on TiC MXene quantum dots as an intracellular pH	,
2023	Ratiometric photoluminescence sensing based on TiC MXene quantum dots as an intracellular pH sensor. 2018 , 10, 1111-1118 Synergism between carbon materials and Ni chains in flexible poly(vinylidene fluoride) composite	168
2023	Ratiometric photoluminescence sensing based on TiC MXene quantum dots as an intracellular pH sensor. 2018 , 10, 1111-1118 Synergism between carbon materials and Ni chains in flexible poly(vinylidene fluoride) composite films with high heat dissipation to improve electromagnetic shielding properties. 2018 , 127, 469-478 Electromagnetic shielding effectiveness of a thin silver layer deposited onto PET film via	168
2023	Ratiometric photoluminescence sensing based on TiC MXene quantum dots as an intracellular pH sensor. 2018, 10, 1111-1118 Synergism between carbon materials and Ni chains in flexible poly(vinylidene fluoride) composite films with high heat dissipation to improve electromagnetic shielding properties. 2018, 127, 469-478 Electromagnetic shielding effectiveness of a thin silver layer deposited onto PET film via atmospheric pressure plasma reduction. 2018, 435, 7-15 Fabrication of reduced graphene oxide/multi-walled carbon nanotubes/zinc ferrite hybrid composites as high-performance microwave absorbers. 2018, 736, 1-11	168 124 41
2023 2022 2021 2020 2019	Ratiometric photoluminescence sensing based on TiC MXene quantum dots as an intracellular pH sensor. 2018, 10, 1111-1118 Synergism between carbon materials and Ni chains in flexible poly(vinylidene fluoride) composite films with high heat dissipation to improve electromagnetic shielding properties. 2018, 127, 469-478 Electromagnetic shielding effectiveness of a thin silver layer deposited onto PET film via atmospheric pressure plasma reduction. 2018, 435, 7-15 Fabrication of reduced graphene oxide/multi-walled carbon nanotubes/zinc ferrite hybrid composites as high-performance microwave absorbers. 2018, 736, 1-11	168 124 41 92

2016	Excellent microwave absorption properties of the h-BNLOHe3O4 ternary composite. 2018, 6, 11722-11730	42
2015	A synergetic stabilization and strengthening strategy for two-dimensional ordered hybrid transition metal carbides. 2018 , 20, 29684-29692	7
2014	Boron carbide composites with highly aligned graphene nanoplatelets: light-weight and efficient electromagnetic interference shielding materials at high temperatures 2018 , 8, 39314-39320	7
2013	Polypyrrole-MXene coated textile-based flexible energy storage device 2018 , 8, 39742-39748	45
2012	Ti3C2Tx (T = F, OH) MXene nanosheets: conductive 2D catalysts for ambient electrohydrogenation of N2 to NH3. 2018 , 6, 24031-24035	169
2011	Thermal conversion of wheat-like metal organic frameworks to achieve MgO/carbon composites with tunable morphology and microwave response. 2018 , 6, 11659-11665	14
2010	Variable densification of reduced graphene oxide foam into multifunctional high-performance graphene paper. 2018 , 6, 12321-12328	21
2009	Repeatable, room-temperature-processed baroplastic-carbon nanotube composites for electromagnetic interference shielding. 2018 , 6, 12955-12964	13
2008	Terahertz Spectroscopy of 2D Materials. 2018 ,	1
2007	Mechanical, dielectric and EMI shielding response of styrene acrylonitrile, styrene acrylonitrile/polyaniline polymer blends, upon incorporation of few layer graphene at low filler loadings. 2018 , 25, 1	15
2006	Optimizing special quasirandom structure (SQS) models for accurate functional property prediction in disordered 2D alloys. 2018 , 30, 485402	1
2005	Electronic and Optical Properties of 2D Transition Metal Carbides and Nitrides (MXenes). 2018 , 30, e1804779	464
2004	Emerging materials for tailorable nanophotonic devices. 2018,	1
2003	Self-Assembled Sandwich-like MXene-Derived Nanocomposites for Enhanced Electromagnetic Wave Absorption. 2018 , 10, 42925-42932	100
2002	Solid and macroporous FeC/N-C nanofibers with enhanced electromagnetic wave absorbability. 2018 , 8, 16832	22
2001	Fabrication of Nonwetting Flexible Free-Standing MXene-Carbon Fabric for Electromagnetic Shielding in S-Band Region. 2018 , 39, 1412-1419	19
2000	GZFLW Induces Apoptosis of Ectopic Endometrial Stromal Cells via Promoting VPS53 Protein Stability. 2018 , 2018, 1293630	
1999	Effects of carbon fiber modification with multiwall CNT on the electrical conductivity and EMI shielding effectiveness of polycarbonate/carbon fiber/CNT composites. 2018 , 136, 47302	7

1998	Recent Progress of MXene-Based Nanomaterials in Flexible Energy Storage and Electronic Devices. 2018 , 1, 183-195	87
1997	Strong Surface-Bound Sulfur in Carbon Nanotube Bridged Hierarchical Mo C-Based MXene Nanosheets for Lithium-Sulfur Batteries. 2019 , 15, e1804338	35
1996	Ultrathin Biomimetic Polymeric TiCT MXene Composite Films for Electromagnetic Interference Shielding. 2018 , 10, 44787-44795	168
1995	Phosphorized MXene-Phase Molybdenum Carbide as an Earth-Abundant Hydrogen Evolution Electrocatalyst. 2018 , 1, 7206-7212	48
1994	Exploring the synergy of 2D MXene-supported black phosphorus quantum dots in hydrogen and oxygen evolution reactions. 2018 , 6, 21255-21260	100
1993	Single platinum atoms immobilized on an MXene as an efficient catalyst for the hydrogen evolution reaction. 2018 , 1, 985-992	739
1992	Fluoride-Free Synthesis of Two-Dimensional Titanium Carbide (MXene) Using A Binary Aqueous System. 2018 , 130, 15717-15721	93
1991	Effect of N2 flow rate on electromagnetic interference shielding effectiveness of TiNx films. 2018 , 124, 1	2
1990	Enhanced reversible Li-ion storage in Si@Ti3C2 MXene nanocomposite. 2018, 97, 16-21	41
1989	Titanium Carbide (MXene) as a Current Collector for Lithium-Ion Batteries. 2018 , 3, 12489-12494	41
1989 1988	Titanium Carbide (MXene) as a Current Collector for Lithium-Ion Batteries. 2018, 3, 12489-12494 Microstructure, electromagnetic and microwave absorbing properties of plate-like LaCeNi powder. 2018, 29, 18030-18035	3
1988	Microstructure, electromagnetic and microwave absorbing properties of plate-like LaCeNi powder.	
1988	Microstructure, electromagnetic and microwave absorbing properties of plate-like LaCeNi powder. 2018 , 29, 18030-18035	3
1988 1987 1986	Microstructure, electromagnetic and microwave absorbing properties of plate-like LaCeNi powder. 2018, 29, 18030-18035 Multifunctional, Superelastic, and Lightweight MXene/Polyimide Aerogels. 2018, 14, e1802479 MXene Sorbents for Removal of Urea from Dialysate: A Step toward the Wearable Artificial Kidney.	3 246
1988 1987 1986	Microstructure, electromagnetic and microwave absorbing properties of plate-like LaCeNi powder. 2018, 29, 18030-18035 Multifunctional, Superelastic, and Lightweight MXene/Polyimide Aerogels. 2018, 14, e1802479 MXene Sorbents for Removal of Urea from Dialysate: A Step toward the Wearable Artificial Kidney. 2018, 12, 10518-10528 MXene Ti 3 C 2 T x saturable absorber for pulsed laser at 1.3 fh. 2018, 27, 094214	3 246 102
1988 1987 1986	Microstructure, electromagnetic and microwave absorbing properties of plate-like LaCeNi powder. 2018, 29, 18030-18035 Multifunctional, Superelastic, and Lightweight MXene/Polyimide Aerogels. 2018, 14, e1802479 MXene Sorbents for Removal of Urea from Dialysate: A Step toward the Wearable Artificial Kidney. 2018, 12, 10518-10528 MXene Ti 3 C 2 T x saturable absorber for pulsed laser at 1.3 fh. 2018, 27, 094214	3 246 102 29
1988 1987 1986 1985	Microstructure, electromagnetic and microwave absorbing properties of plate-like LaCeNi powder. 2018, 29, 18030-18035 Multifunctional, Superelastic, and Lightweight MXene/Polyimide Aerogels. 2018, 14, e1802479 MXene Sorbents for Removal of Urea from Dialysate: A Step toward the Wearable Artificial Kidney. 2018, 12, 10518-10528 MXene Ti 3 C 2 T x saturable absorber for pulsed laser at 1.3 fh. 2018, 27, 094214 2D titanium carbide (MXene) for wireless communication. 2018, 4, eaau0920 2D Metal Carbides and Nitrides (MXenes) as High-Performance Electrode Materials for	3 246 102 29 219

1980	Fluoride-Free Synthesis of Two-Dimensional Titanium Carbide (MXene) Using A Binary Aqueous System. 2018 , 57, 15491-15495	195
1979	Planar Alignment of Graphene Sheets by a Rotating Magnetic Field for Full Exploitation of Graphene as a 2D Material. 2018 , 28, 1805255	20
1978	Chemical Stability of Till MXene with Al in the Temperature Range 500?700 °C. 2018 , 11,	23
1977	Multifunctional, Polyurethane-Based Foam Composites Reinforced by a Fabric Structure: Preparation, Mechanical, Acoustic, and EMI Shielding Properties. 2018 , 11,	20
1976	Carbon Composite Networks with Ultrathin Skin Layers of Graphene Film for Exceptional Electromagnetic Interference Shielding. 2018 , 10, 38255-38263	49
1975	Preparation of Ti3C2Tx MXene-Derived Quantum Dots with White/Blue-Emitting Photoluminescence and Electrochemiluminescence. 2018 , 6, 1800951	42
1974	Quick Heat Dissipation in Absorption-Dominated Microwave Shielding Properties of Flexible Poly(vinylidene fluoride)/Carbon Nanotube/Co Composite Films with Anisotropy-Shaped Co (Flowers or Chains). 2018 , 10, 40789-40799	65
1973	Highly Electrically Conductive Three-Dimensional TiCT MXene/Reduced Graphene Oxide Hybrid Aerogels with Excellent Electromagnetic Interference Shielding Performances. 2018 , 12, 11193-11202	409
1972	Preparation of Polyaniline@MoS2@Fe3O4 Nanowires with a Wide Band and Small Thickness toward Enhancement in Microwave Absorption. 2018 , 1, 5865-5875	43
1971	Large-scale preparation of segregated PLA/carbon nanotube composite with high efficient electromagnetic interference shielding and favourable mechanical properties. 2018 , 155, 405-413	75
1970	An Efficient Co/C Microwave Absorber with Tunable Co Nanoparticles Derived from a ZnCo Bimetallic Zeolitic Imidazolate Framework. 2018 , 35, 1800107	30
1969	Hierarchical [email´protected]2 Nanoflowers with Strong Electromagnetic Wave Absorption and Broad Bandwidth. 2018 , 1, 5179-5187	47
1968	Tailorable electromagnetic interference shielding using nickel coated glass fabric-epoxy composite with excellent mechanical property. 2018 , 10, 110-115	14
1967	A flexible electromagnetic interference shielding film coated with a hybrid solder-magnetic powder mixture on a PET substrate. 2018 , 4, 390-401	8
1966	Layer-by-Layer Assembly of Cross-Functional Semi-transparent MXene-Carbon Nanotubes Composite Films for Next-Generation Electromagnetic Interference Shielding. 2018 , 28, 1803360	270
1965	Surface Electrochemical Stability and Strain-Tunable Lithium Storage of Highly Flexible 2D Transition Metal Carbides. 2018 , 28, 1804867	21
1964	Anion Adsorption, Ti3C2Tz MXene Multilayers, and Their Effect on Claylike Swelling. 2018 , 122, 23172-23179	29
1963	A novel MnO2/Ti3C2Tx MXene nanocomposite as high performance electrode materials for flexible supercapacitors. 2018 , 290, 695-703	100

1962	Nano [email´protected] Layer on Porous Carbon Nanofibers with Multiple Interfaces for Microwave Absorption Applications. 2018 , 1, 5712-5721	30
1961	Ultralight MXene-Coated, Interconnected SiCnws Three-Dimensional Lamellar Foams for Efficient Microwave Absorption in the X-Band. 2018 , 10, 34524-34533	110
1960	A highly efficient and heat-resistant electromagnetic interference shielding carbon nanotube/poly(phenylene sulfide) composite via sinter molding. 2018 , 6, 10760-10766	41
1959	The Marriage of the FeN Moiety and MXene Boosts Oxygen Reduction Catalysis: Fe 3d Electron Delocalization Matters. 2018 , 30, e1803220	157
1958	Ultrathin MXene Nanosheets Decorated with TiO Quantum Dots as an Efficient Sulfur Host toward Fast and Stable Li-S Batteries. 2018 , 14, e1802443	89
1957	Theoretical Study of Electromagnetic Interference Shielding of 2D MXenes Films. 2018 , 8, 652	16
1956	Biofunctionalized two-dimensional TiC MXenes for ultrasensitive detection of cancer biomarker. 2018 , 121, 243-249	187
1955	Biomass-based honeycomb-like architectures for preparation of robust carbon foams with high electromagnetic interference shielding performance. 2018 , 140, 227-236	50
1954	Incorporating a microcellular structure into PVDF/grapheneflanoplatelet composites to tune their electrical conductivity and electromagnetic interference shielding properties. 2018 , 6, 10292-10300	113
1953	Significant promotion of porous architecture and magnetic FeO NPs inside honeycomb-like carbonaceous composites for enhanced microwave absorption 2018 , 8, 19011-19023	34
1952	3D hybrid porous Mxene-sponge network and its application in piezoresistive sensor. 2018 , 50, 79-87	264
1951	Three-Dimensional Hierarchical Architecture of the TiO2/Ti3C2Tx/RGO Ternary Composite Aerogel for Enhanced Electromagnetic Wave Absorption. 2018 , 6, 8212-8222	82
1950	Dependences of microstructure on electromagnetic interference shielding properties of nano-layered TiAlC ceramics. 2018 , 8, 7935	16
1949	In situ edge engineering in two-dimensional transition metal dichalcogenides. 2018 , 9, 2051	60
1948	Self-assembled MXene-based nanocomposites via layer-by-layer strategy for elevated adsorption capacities. 2018 , 553, 105-113	53
1947	Enhanced conductive loss in nickel@obalt sulfide nanostructures for highly efficient microwave absorption and shielding. 2018 , 51, 235303	4
1946	Noise suppression and crosstalk analysis of on-chip magnetic film-type noise suppressor. 2018 , 8, 056613	2
1945	Anticorrosive, Ultralight, and Flexible Carbon-Wrapped Metallic Nanowire Hybrid Sponges for Highly Efficient Electromagnetic Interference Shielding. 2018 , 14, e1800534	209

(2018-2018)

1944	Improving the Electromagnetic Wave Absorption Properties of the Layered MoS2 by Cladding with Ni Nanoparticles. 2018 , 87, 054402	24
1943	Charge and heat transfer of the Ti3AlC2 MAX phase. 2018 , 29, 11478-11481	5
1942	Gradient Structure Design of Flexible Waterborne Polyurethane Conductive Films for Ultraefficient Electromagnetic Shielding with Low Reflection Characteristic. 2018 , 10, 19143-19152	125
1941	Thickness-independent capacitance of vertically aligned liquid-crystalline MXenes. 2018, 557, 409-412	627
1940	Facile synthesis of C and N co-doped MoO2 fibers and their microwave absorption performance. 2018 , 228, 203-206	10
1939	In Situ Formed Protective Barrier Enabled by Sulfur@Titanium Carbide (MXene) Ink for Achieving High-Capacity, Long Lifetime Li-S Batteries. 2018 , 5, 1800502	147
1938	Polyester@MXene nanofibers-based yarn electrodes. 2018 , 396, 683-690	88
1937	Cold Sintered Ceramic Nanocomposites of 2D MXene and Zinc Oxide. 2018 , 30, e1801846	104
1936	High-capacitance TiCT MXene obtained by etching submicron TiAlC grains grown in molten salt. 2018 , 54, 8132-8135	24
1935	A carbon-fabric/polycarbonate sandwiched film with high tensile and EMI shielding comprehensive properties: An experimental study. 2018 , 152, 8-16	29
1934	Semi-transparent biomass-derived macroscopic carbon grids for efficient and tunable electromagnetic shielding. 2018 , 139, 271-278	47
1933	Voltage-Gated Ions Sieving through 2D MXene Ti3C2Tx Membranes. 2018 , 1, 3644-3652	58
1932	Oxidized multiwall carbon nanotube/silicone foam composites with effective electromagnetic interference shielding and high gamma radiation stability 2018 , 8, 24236-24242	10
1931	Size-Dependent Physical and Electrochemical Properties of Two-Dimensional MXene Flakes. 2018 , 10, 24491-24498	150
1930	Exploring the interfacial state and tensile behaviors in nickel matrix composite with in-situ TiC and PNi3(Al,Ti) reinforcements. 2018 , 765, 987-993	14
1929	Graphene-based plastic absorber for total sub-terahertz radiation shielding. 2018 , 10, 13426-13431	32
1928	First-principles study on the electrical and thermal properties of the semiconducting Sc(CN)F MXene 2018 , 8, 22452-22459	14
1927	Alginate/r-GO assisted synthesis of ultrathin LiFePO4 nanosheets with oriented (0 1 0) facet and ultralow antisite defect. 2018 , 351, 340-347	23

1926	Flower-like MoS2 Nanospheres: A Promising Material with Good Microwave Absorption Property in the Frequency Range of 8.2🛘 2.4 GHz. 2018 , 13, 1850084	11
1925	Controlled Crumpling of Two-Dimensional Titanium Carbide (MXene) for Highly Stretchable, Bendable, Efficient Supercapacitors. 2018 , 12, 8048-8059	85
1924	Insights into 2D MXenes for Versatile Biomedical Applications: Current Advances and Challenges Ahead. 2018 , 5, 1800518	245
1923	[email´protected]2 Heterogeneous Nanofiller-Based Polymer Composites: A Single Key to the High-Performance Piezoelectric Nanogenerator and X-band Microwave Shield. 2018 , 1, 4005-4018	17
1922	Integrated strength and toughness in graphene/calcium alginate films for highly efficient electromagnetic interference shielding. 2018 , 6, 9166-9174	38
1921	Highly enhanced microwave absorption properties of CoFeBSiNb metallic glasses through corrosion. 2018 , 468, 109-114	7
1920	Self-Assemble and In Situ Formation of Ni1\(\text{Ni1}\(\text{RexPS3} \) Nanomosaic-Decorated MXene Hybrids for Overall Water Splitting. 2018 , 8, 1801127	131
1919	Hybridization of Binary Non-Precious-Metal Nanoparticles with d-Ti3C2 MXene for Catalyzing the Oxygen Reduction Reaction. 2018 , 5, 3307-3314	18
1918	Two-dimensional materials: Emerging toolkit for construction of ultrathin high-efficiency microwave shield and absorber. 2018 , 13, 1	33
1917	Few-layer TiCT (T = O, OH, or F) saturable absorber for a femtosecond bulk laser. 2018 , 43, 3862-3865	74
1916	Screening Surface Structure of MXenes by High-Throughput Computation and Vibrational Spectroscopic Confirmation. 2018 , 122, 18501-18509	73
1915	Synergistic effect of carbon nanotube and graphene nanoplates on the mechanical, electrical and electromagnetic interference shielding properties of polymer composites and polymer composite foams. 2018 , 353, 381-393	162
1914	Controlling the Dimensions of 2D MXenes for Ultrahigh-Rate Pseudocapacitive Energy Storage. 2018 , 10, 25949-25954	75
1913	Enhanced electromagnetic interference shielding properties of silicon carbide composites with aligned graphene nanoplatelets. 2018 , 38, 5615-5619	16
1912	EMI shielding properties of laminated graphene and PbTiO3 reinforced poly(3,4-ethylenedioxythiophene) nanocomposites. 2018 , 165, 222-230	58
1911	Origin of Chemically Ordered Atomic Laminates (i-MAX): Expanding the Elemental Space by a Theoretical/Experimental Approach. 2018 , 12, 7761-7770	49
1910	Tunable Multipolar Surface Plasmons in 2D TiC T MXene Flakes. 2018 , 12, 8485-8493	105

(2018-2018)

1908	capacitance. 2018 , 6, 22123-22133	151
1907	Lightweight and highly efficient electromagnetic wave-absorbing of 3D CNTs/GNS@CoFe2O4 ternary composite aerogels. 2018 , 768, 6-14	68
1906	Hierarchically structured cellulose aerogels with interconnected MXene networks and their enhanced microwave absorption properties. 2018 , 6, 8679-8687	127
1905	A facile approach to fabricating silver-coated cotton fiber non-woven fabrics for ultrahigh electromagnetic interference shielding. 2018 , 458, 236-244	111
1904	Research on high electromagnetic interference shielding effectiveness of a foldable buckypaper/polyacrylonitrile composite film via interface reinforcing. 2018 , 113, 132-140	23
1903	Ultrathin Titanate Nanosheets/Graphene Films Derived from Confined Transformation for Excellent Na/K Ion Storage. 2018 , 130, 8676-8680	29
1902	Sequentially bridged graphene sheets with high strength, toughness, and electrical conductivity. 2018 , 115, 5359-5364	77
1901	Ultralight and ultraelastic sponge/Al@Al2O3 nanocomposite with tunable electromagnetic properties. 2018 , 124, 075101	2
1900	Modified MXene/Holey Graphene Films for Advanced Supercapacitor Electrodes with Superior Energy Storage. 2018 , 5, 1800750	216
1899	Core-Multishell Heterostructure with Excellent Heat Dissipation for Electromagnetic Interference Shielding. 2018 , 10, 30762-30773	70
1898	Recent advances in electromagnetic interference shielding properties of metal and carbon filler reinforced flexible polymer composites: A review. 2018 , 114, 49-71	311
1897	Physical Insight into the Mechanism of Electromagnetic Shielding in Polymer Nanocomposites Containing Multiwalled Carbon Nanotubes and Inverse-Spinel Ferrites. 2018 , 122, 19425-19437	16
1896	Extent of Pseudocapacitance in High-Surface Area Vanadium Nitrides. 2018, 1, 171-175	7
1895	Polyol derived Ni and NiFe alloys for effective shielding of electromagnetic interference. 2018 , 2, 1829-1841	36
1894	Lightweight and nitrogen-doped graphene nanoribbons with tunable hierarchical structure for high performance electromagnetic wave absorption. 2018 , 44, 20259-20266	16
1893	Highly Conductive Nanocomposite Enabled by an Accordion-like Graphene Network for Flexible Heating Films and Supercapacitors. 2018 , 1, 4781-4787	8
1892	Tuning the Electromagnetic Synergistic Effects for Enhanced Microwave Absorption via Magnetic Nickel Core Encapsulated in Hydrogenated Anatase TiO2 Shell. 2018 , 6, 12046-12054	33
1891	Lightweight and flexible electrospun polymer nanofiber/metal nanoparticle hybrid membrane for high-performance electromagnetic interference shielding. 2018 , 10, 749-760	120

1890	Synergistic Effect of Graphite and Carbon Nanotubes on Improved Electromagnetic Interference Shielding Performance in Segregated Composites. 2018 , 57, 11929-11938	50
1889	Vertically aligned MoS2 on Ti3C2 (MXene) as an improved HER catalyst. 2018 , 6, 16882-16889	89
1888	Self-Assembly CoreBhell Graphene-Bridged Hollow MXenes Spheres 3D Foam with Ultrahigh Specific EM Absorption Performance. 2018 , 28, 1803938	366
1887	High efficiency photocatalytic hydrogen production over ternary Cu/TiO2@Ti3C2Tx enabled by low-work-function 2D titanium carbide. 2018 , 53, 97-107	187
1886	Solvent-regulated preparation of well-intercalated TiCT MXene nanosheets and application for highly effective electromagnetic wave absorption. 2018 , 29, 355201	47
1885	2D MXene Nanofilms with Tunable Gas Transport Channels. 2018 , 28, 1801511	197
1884	Elastic properties of 2D TiCT MXene monolayers and bilayers. 2018, 4, eaat0491	380
1883	Environment-Sensitive Photoresponse of Spontaneously Partially Oxidized TiC MXene Thin Films. 2018 , 12, 6109-6116	132
1882	Flexible and highly conductive sandwich nylon/nickel film for ultra-efficient electromagnetic interference shielding. 2018 , 455, 856-863	50
1881	Thermally Driven Transport and Relaxation Switching Self-Powered Electromagnetic Energy Conversion. 2018 , 14, e1800987	511
1880	In situ atomistic insight into the growth mechanisms of single layer 2D transition metal carbides. 2018 , 9, 2266	89
1879	Synthesis of a 2D phosphorus material in a MOF-based 2D nano-reactor. 2018 , 9, 5912-5918	11
1878	Bio-gel derived nickel/carbon nanocomposites with enhanced microwave absorption. 2018, 6, 8812-8822	240
1877	Equilibrium and non-equilibrium free carrier dynamics in 2D Ti 3 C 2 T x MXenes: THz spectroscopy study. 2018 , 5, 035043	32
1876	Electronic structure, bonding characteristics, and mechanical properties in (WSc)AlC and (WY)AlC i-MAX phases from first-principles calculations. 2018 , 30, 305502	3
1875	Inkjet Printing of Self-Assembled 2D Titanium Carbide and Protein Electrodes for Stimuli-Responsive Electromagnetic Shielding. 2018 , 28, 1801972	111
1874	Self-lubricating Ti3C2 nanosheets/copper composite coatings. 2019 , 770, 1-5	54
1873	Covalent stabilization and functionalization of MXene via silylation reactions with improved surface properties. 2019 , 17, 100128	44

1872	Transparent Perfect Microwave Absorber Employing Asymmetric Resonance Cavity. 2019 , 6, 1901320	22
1871	Electrochemical Behavior of Ti C T MXene in Environmentally Friendly Methanesulfonic Acid Electrolyte. 2019 , 12, 4480-4486	10
1870	Low percolation 3D Cu and Ag shell network composites for EMI shielding and thermal conduction. 2019 , 182, 107778	33
1869	Multilayer-structured transparent MXene/PVDF film with excellent dielectric and energy storage performance. 2019 , 7, 10371-10378	62
1868	A New View of Supercapacitors: Integrated Supercapacitors. 2019 , 9, 1901081	155
1867	Interfacial Assembly of Ultrathin, Functional MXene Films. 2019 , 11, 32320-32327	46
1866	Unleashing the potential of Ti 2 CT \times MXene as a pulse modulator for mid-infrared fiber lasers. 2019 , 6, 045038	54
1865	Pulse generation of erbium-doped fiber laser based on liquid-exfoliated FePS3. 2019 , 28, 084208	6
1864	TiC MXene quantum dot-encapsulated liposomes for photothermal immunoassays using a portable near-infrared imaging camera on a smartphone. 2019 , 11, 15659-15667	104
1863	Zinc oxide/nanoporous carbon hybrid materials derived from metal®rganic frameworks with different dielectric and absorption performances. 2019 , 6, 2521-2527	11
1862	Enhanced low-temperature Li-ion storage in MXene titanium carbide by surface oxygen termination. 2019 , 6, 045025	35
1861	Space-Confined Synthesis of Core-Shell BaTiO@Carbon Microspheres as a High-Performance Binary Dielectric System for Microwave Absorption. 2019 , 11, 31182-31190	58
1860	Butyllithium-Treated TiCT MXene with Excellent Pseudocapacitor Performance. 2019 , 13, 9449-9456	65
1859	Well-dispersed carbon nanotube/polymer composite films and application to electromagnetic interference shielding. 2019 , 80, 190-196	14
1858	Recent progress on synthesis, structure and electrocatalytic applications of MXenes. 2019, 17, 100129	23
1857	Electrical conductivity and electromagnetic interference shielding properties of polymer/carbon composites. 2019 , 30, 16636-16650	4
1856	A self-assembled graphene/polyurethane sponge for excellent electromagnetic interference shielding performance 2019 , 9, 25829-25835	23
1855	MXene artificial muscles based on ionically cross-linked TiCT electrode for kinetic soft robotics. 2019 , 4,	93

1854	Active control of graphene-based membrane-type acoustic metamaterials using a low voltage. 2019 , 11, 16384-16392	15
1853	Predictions of the structures and properties of the substituted layered ternary compound series ($Zr T$) AlC ($T = Hf$, Nb, and V) through first-principles studies. 2019 , 31, 385702	1
1852	The electromagnetic and microwave absorbing properties of MoS2 modified Ti3C2Tx nanocomposites. 2019 , 30, 15250-15256	18
1851	Laminar MXene-Nafion-modified separator with highly inhibited shuttle effect for long-life lithiumBulfur batteries. 2019 , 320, 134558	37
1850	Excellent catalytic activity of a two-dimensional Nb4C3Tx (MXene) on hydrogen storage of MgH2. 2019 , 493, 431-440	19
1849	Graphene on epsilon-near-zero metamaterials as perfect electromagnetic absorber. 2019 , 169-189	1
1848	Conductive-network enhanced microwave absorption performance from carbon coated defect-rich Fe2O3 anchored on multi-wall carbon nanotubes. 2019 , 155, 298-308	66
1847	Nafion-stabilized two-dimensional transition metal carbide (Ti3C2Tx MXene) as a high-performance electrochemical sensor for neurotransmitter. 2019 , 79, 338-344	55
1846	Ultrastrong and conductive MXene/cellulose nanofiber films enhanced by hierarchical nano-architecture and interfacial interaction for flexible electromagnetic interference shielding. 2019 , 7, 9820-9829	94
1845	Two-Dimensional TiCT MXene Membranes as Nanofluidic Osmotic Power Generators. 2019 , 13, 8917-8925	117
1844	Strengthening, toughing and thermally stable ultra-thin MXene nanosheets/polypropylene nanocomposites via nanoconfinement. 2019 , 378, 122267	140
1843	Tailoring Storage Capacity and Ion Kinetics in Ti2CO2/Graphene Heterostructures by Functionalization of Graphene. 2019 , 12,	14
1842	Facile Solution Processing of Stable MXene Dispersions towards Conductive Composite Fibers. 2019 , 3, 1900037	38
1841	Efficient removal of Pb(II) by Ti3C2Tx powder modified with a silane coupling agent. 2019 , 54, 13283-13297	35
1840	Enhanced Electrical and Thermal Performance of Wet-Laid Based Graphite-Laminated Carbon Non-woven Composite. 2019 , 48, 5710-5716	1
1839	Effect of Cationic Exchange on the Hydration and Swelling Behavior of Ti3C2Tz MXenes. 2019 , 123, 20044-20	 0 5 0 ₉
1838	Conductive MXene Nanocomposite Organohydrogel for Flexible, Healable, Low-Temperature Tolerant Strain Sensors. 2019 , 29, 1904507	324
1837	A review on recent advancement of electromagnetic interference shielding novel metallic materials and processes. 2019 , 176, 107207	88

1836	Two-dimensional MXene membrane for ethanol dehydration. 2019 , 590, 117300	44
1835	Stretchable liquid metal electromagnetic interference shielding coating materials with superior effectiveness. 2019 , 7, 10331-10337	34
1834	Flexible, stretchable and electrically conductive MXene/natural rubber nanocomposite films for efficient electromagnetic interference shielding. 2019 , 182, 107754	108
1833	Ultra-light, high flexible and efficient CNTs/Ti3C2-sodium alginate foam for electromagnetic absorption application. 2019 , 35, 2859-2867	30
1832	Tin+1Cn MXenes with fully saturated and thermally stable Cl terminations. 2019 , 1, 3680-3685	49
1831	Synthesis of (VSc)AlC i-MAX phase and VC MXene scrolls. 2019 , 11, 14720-14726	21
1830	Synergistic Effects between MXenes and Ni Chains in Flexible and Ultrathin Electromagnetic Interference Shielding Films. 2019 , 6, 1900961	37
1829	Flexible and tunable electromagnetic meta-atom based on silver nanowire networks. 2019 , 181, 107982	10
1828	Controlled synthesis of 2D MoC/graphene heterostructure on liquid Au substrates as enhanced electrocatalytic electrodes. 2019 , 30, 385601	28
1827	Ceramic based multi walled carbon nanotubes composites for highly efficient electromagnetic interference shielding. 2019 , 30, 13381-13388	6
1826	Rapid preparation, thermal stability and electromagnetic interference shielding properties of two-dimensional Ti3C2 MXene. 2019 , 45, 19902-19909	46
1825	Superior electromagnetic interference shielding performances of epoxy composites by introducing highly aligned reduced graphene oxide films. 2019 , 124, 105512	40
1824	Ti3C2 MXene nanosheet-based capacitance immunoassay with tyramine-enzyme repeats to detect prostate-specific antigen on interdigitated micro-comb electrode. 2019 , 319, 375-381	50
1823	Enhanced microwave absorption properties of Fe3C/C nanofibers prepared by electrospinning. 2019 , 804, 305-313	38
1822	In-situ anchoring of Fe3O4/ZIF-67 dodecahedrons in highly compressible wood aerogel with excellent microwave absorption properties. 2019 , 182, 108006	42
1821	Biodegradable multiphase poly(lactic acid)/biochar/graphite composites for electromagnetic interference shielding. 2019 , 181, 107704	25
1820	Electromagnetic shielding via a virtual pillar with a magnetic wall. 2019 , 14, 102462	
1819	Graphene/Polyelectrolyte Layer-by-Layer Coatings for Electromagnetic Interference Shielding. 2019 , 2, 5272-5281	23

1818	Stable colloidal dispersion of octylated Ti3C2-MXenes in a nonpolar solvent. 2019 , 579, 123648	29
1817	High absorption shielding material of poly(phthalazinone etherketone)/multiwall carbon nanotube composite films with sandwich configurations 2019 , 9, 18758-18766	12
1816	Novel two-dimensional Ti3C2TX/Ni-spheres hybrids with enhanced microwave absorption properties. 2019 , 45, 22880-22888	37
1815	Nanomechanical Properties of TiC Mxene. 2019 , 35, 14481-14485	35
1814	Flexible and Multifunctional Silk Textiles with Biomimetic Leaf-Like MXene/Silver Nanowire Nanostructures for Electromagnetic Interference Shielding, Humidity Monitoring, and Self-Derived Hydrophobicity. 2019 , 29, 1905197	284
1813	MXene-Reinforced Cellulose Nanofibril Inks for 3D-Printed Smart Fibres and Textiles. 2019 , 29, 1905898	107
1812	Outstanding Absolute Electromagnetic Interference Shielding Effectiveness of Cross-Linked PEDOT:PSS Film. 2019 , 6, 1901353	23
1811	Frequency-selective and tunable electromagnetic shielding effectiveness via the sandwich structure of silicone rubber/graphene composite. 2019 , 184, 107847	42
1810	Degradation and DBP formations from pyrimidines and purines bases during sequential or simultaneous use of UV and chlorine. 2019 , 165, 115023	12
1809	Building 3D Architecture in 2D Thin Film for Effective EMI Shielding. 2019 , 1, 796-798	8
1808	Vapor Deposition Red Phosphorus to Prepare Nitrogen-Doped TiCT MXenes Composites for Lithium-Ion Batteries. 2019 , 10, 6446-6454	29
1807	Van der Waals heterostructures of blue phosphorene and scandium-based MXenes monolayers. 2019 , 126, 143101	6
1806	Fabrication and investigation on the ultra-thin and flexible Ti3C2Tx/co-doped polyaniline electromagnetic interference shielding composite films. 2019 , 183, 107833	138
1805	Sculpting Liquids with Two-Dimensional Materials: The Assembly of TiCT MXene Sheets at Liquid-Liquid Interfaces. 2019 , 13, 12385-12392	30
1804	Phase-field crystal model for heterostructures. 2019 , 100,	5
1803	Kupferkatalysierte Triborierung: Einfache, atomkonomische Synthese von 1,1,1-Triborylalkanen aus terminalen Alkinen und HBpin. 2019 , 131, 19099-19103	2
1802	Flexible 3D Porous MXene Foam for High-Performance Lithium-Ion Batteries. 2019 , 15, e1904293	96
1801	Facile approach for a robust graphene/silver nanowires aerogel with high-performance electromagnetic interference shielding 2018 , 9, 27-33	20

Assessment of wastewater on-line monitoring system in an important industrial park in Tianjin, China. **2019**, 349, 012031

High-Performance Carbonized Waste Corrugated Boards Reinforced with Epoxy Coating as Lightweight Structured Electromagnetic Shields. 2019 , 7, 18718-18725	24
1798 2D Metal Carbides and Nitrides (MXenes). 2019 ,	130
1797 Introduction to 2D Transition Metal Carbides and Nitrides (MXenes). 2019 , 3-12	26
1796 Electronic Properties and Applications of MXenes from Ab Initio Calculations Perspective. 2019 , 255-289	4
1795 Electronic and Mechanical Properties of MXenes Derived from Single-Flake Measurements. 2019 , 301-325	5
1794 Optical Properties of MXenes. 2019 , 327-346	7
1793 MXene Materials as Electrodes for Lithium-Sulfur Batteries. 2019 , 381-398	2
1792 Non-MAX Phase Precursors for MXenes. 2019 , 53-68	5
1791 Top-Down MXene Synthesis (Selective Etching). 2019 , 69-87	6
1790 Cellular Graphene: Fabrication, Mechanical Properties, and Strain-Sensing Applications. 2019 , 1, 1148-1202	24
Self-Assembly-Magnetized MXene Avoid Dual-Agglomeration with Enhanced Interfaces for Strong Microwave Absorption through a Tunable Electromagnetic Property. 2019 , 11, 44536-44544	97
1788 Reviewing MXenes for Plasmonic Applications: Beyond Graphene. 2019 ,	1
$_{1787}$ Ultrathin 2D Nanomaterials for Electromagnetic Interference Shielding. 2019 , 6, 1901454	45
1786 Rational Design of Flexible Two-Dimensional MXenes with Multiple Functionalities. 2019 , 119, 11980-1203	1 137
Wide-Band Tunable Microwave-Absorbing Ceramic Composites Made of Polymer-Derived SiOC Ceramic and in Situ Partially Surface-Oxidized Ultra-High-Temperature Ceramics. 2019 , 11, 45862-45874	27
1784 Heating of TiCT MXene/polymer composites in response to Radio Frequency fields. 2019 , 9, 16489	23
Cytotoxicity Assessment of Ti-Al-C Based MAX Phases and TiCT MXenes on Human Fibroblasts and Cervical Cancer Cells. 2019 , 5, 6557-6569	32

1782	Photodynamic Therapy Based on Graphene and MXene in Cancer Theranostics. 2019 , 7, 295	56
1781	Effective Stimulant Dosing in Attention-Deficit/Hyperactivity Disorder. 2019 , 173, 1211	
1780	Powerful and lightweight electromagnetic-shielding carbon nanotube/graphene foam/silicon carbide composites. 2019 , 256, 126634	6
1779	First-Principles Calculations of TiB MBene Monolayers for Hydrogen Evolution. 2019 , 2, 7220-7229	17
1778	CuxS/PAN 3D Nanofiber Mats as Ultra-Lightweight and Flexible Electromagnetic Interference Shielding Materials. 2019 , 304, 1900482	3
1777	Flexible polyaniline-coated poplar fiber composite membranes with effective electromagnetic shielding performance. 2019 , 170, 108990	16
1776	Tuning the Electrochemical Performance of Titanium Carbide MXene by Controllable In Situ Anodic Oxidation. 2019 , 131, 18013-18019	17
1775	Tuning the Electrochemical Performance of Titanium Carbide MXene by Controllable In Situ Anodic Oxidation. 2019 , 58, 17849-17855	64
1774	The fabrication and electrical properties of polyimide/boron nitride nanosheets composite films. 2019 , 30, 20302-20310	4
1773	Skeletal muscle mass to visceral fat area ratio is an important determinant associated with type 2 diabetes and metabolic syndrome. 2019 , 12, 1399-1407	9
1772	Self-healing graphene oxide-based composite for electromagnetic interference shielding. 2019 , 155, 499-505	31
1771	Preparation of hierarchical NiCo2O4 self-assembled by lamellar flakes and its microwave absorption. 2019 , 30, 17358-17362	3
1770	The Synthesis, Structure, Morphology Characterizations and Evolution Mechanisms of Nanosized Titanium Carbides and Their Further Applications. 2019 , 9,	25
1769	Ultrathin Topological Insulator Absorber: Unique Dielectric Behavior of BiTe Nanosheets Based on Conducting Surface States. 2019 , 11, 33285-33291	59
1768	Large out-of-plane piezoelectricity of oxygen functionalized MXenes for ultrathin piezoelectric cantilevers and diaphragms. 2019 , 65, 104058	24
1767	Ultrathin and Flexible CNTs/MXene/Cellulose Nanofibrils Composite Paper for Electromagnetic Interference Shielding. 2019 , 11, 72	147
1766	Mechanical, thermal and EMI shielding study of electrically conductive polymeric hybrid nano-composites. 2019 , 30, 17382-17392	21
1765	Uniformly coating MnOx nanoflakes onto carbon nanofibers as lightweight and wideband microwave absorbers with frequency-selective absorption. 2019 , 183, 108167	26

1764	Inkjet-printed MXene micro-scale devices for integrated broadband ultrafast photonics. 2019 , 3,	51
1763	Superior Thermoelectric Performance of Ordered Double Transition Metal MXenes: CrTiCT (T = -OH or -F). 2019 , 10, 5721-5728	27
1762	2D MXenes as Co-catalysts in Photocatalysis: Synthetic Methods. 2019 , 11, 79	92
1761	Single Site Cobalt Substitution in 2D Molybdenum Carbide (MXene) Enhances Catalytic Activity in the Hydrogen Evolution Reaction. 2019 , 141, 17809-17816	144
1760	Current state of the art on tailoring the MXene composition, structure, and surface chemistry. 2019 , 23, 100774	48
1759	Plasma-modified TiCT/CdS hybrids with oxygen-containing groups for high-efficiency photocatalytic hydrogen production. 2019 , 11, 18797-18805	91
1758	Enhanced electromagnetic wave absorbing nickel (Oxide)-Carbon nanocomposites. 2019 , 45, 24474-24486	46
1757	Unprecedented Electromagnetic Interference Shielding from Three-Dimensional Bi-continuous Nanoporous Graphene. 2019 , 1, 1077-1087	28
1756	Ultralight and Mechanically Robust TiCT Hybrid Aerogel Reinforced by Carbon Nanotubes for Electromagnetic Interference Shielding. 2019 , 11, 38046-38054	146
1755	Highly Bendable and Durable Waterproof Paper for Ultra-High Electromagnetic Interference Shielding. 2019 , 11,	15
1754	Flexible Two-Dimensional TiC MXene Films as Thermoacoustic Devices. 2019 , 13, 12613-12620	28
1753	Boosting Performance of Na-S Batteries Using Sulfur-Doped TiCT MXene Nanosheets with a Strong Affinity to Sodium Polysulfides. 2019 , 13, 11500-11509	134
1752	Theoretical Analysis, Synthesis, and Characterization of 2D W1.33C (MXene) with Ordered Vacancies. 2019 , 2, 6209-6219	19
1751	Simultaneous improvement of mechanical properties and electromagnetic interference shielding performance in eco-friendly polylactide composites via reactive blending and MWCNTs induced morphological optimization. 2019 , 178, 107452	18
1750	Colloidal Gelation in Liquid Metals Enables Functional Nanocomposites of 2D Metal Carbides (MXenes) and Lightweight Metals. 2019 , 13, 12415-12424	31
1749	New application of MXene in polymer composites toward remarkable anti-dripping performance for flame retardancy. 2019 , 127, 105649	35
1748	Introduction to MXenes: synthesis and characteristics. 2019 , 14, 100191	38
1747	Large-scale production of simultaneously exfoliated and Functionalized Mxenes as promising flame retardant for polyurethane. 2019 , 179, 107486	62

1746	New predicted two-dimensional MXenes and their structural, electronic and lattice dynamical properties. 2019 , 303-304, 113739	20
1745	Eosin Y-sensitized partially oxidized Ti3C2 MXene for photocatalytic hydrogen evolution. 2019 , 9, 310-315	53
1744	Ultrathin flexible graphene films with high thermal conductivity and excellent EMI shielding performance using large-sized graphene oxide flakes 2019 , 9, 1419-1427	23
1743	Ultralight MXene-based aerogels with high electromagnetic interference shielding performance. 2019 , 7, 474-478	124
1742	Porous Co9S8 nanotubes with the percolation effect for lightweight and highly efficient electromagnetic wave absorption. 2019 , 7, 1696-1704	30
1741	KTlO: a metal shrouded 2D semiconductor with high carrier mobility and tunable magnetism. 2019 , 11, 1131-1139	25
1740	Electromagnetic and acoustic double-shielding graphene-based metastructures. 2019 , 11, 1692-1699	24
1739	Hybrid polymer composites for EMI shielding application- a review. 2019 , 6, 082008	40
1738	Subwavelength Periodic Shielding Materials: Toward Enhanced Shielding of the Incomplete Enclosure. 2019 , 29, 113-115	7
1737	Lightweight TiCT MXene/Poly(vinyl alcohol) Composite Foams for Electromagnetic Wave Shielding with Absorption-Dominated Feature. 2019 , 11, 10198-10207	266
1736	Boosting the Yield of MXene 2D Sheets via a Facile Hydrothermal-Assisted Intercalation. 2019 , 11, 8443-8452	95
1735	Two-Dimensional Hydroxyl-Functionalized and Carbon-Deficient Scandium Carbide, ScC OH, a Direct Band Gap Semiconductor. 2019 , 13, 1195-1203	24
1734	MXene (TiC) Vacancy-Confined Single-Atom Catalyst for Efficient Functionalization of CO. 2019 , 141, 4086-4093	277
1733	Control of MXenes' electronic properties through termination and intercalation. 2019 , 10, 522	380
1732	Atomic Sulfur Covalently Engineered Interlayers of Ti3C2 MXene for Ultra-Fast Sodium-Ion Storage by Enhanced Pseudocapacitance. 2019 , 29, 1808107	138
1731	A facile approach for coating Ti3C2Tx on cotton fabric for electromagnetic wave shielding. 2019 , 26, 2833-2847	38
1730	Oxygen-Functionalized Ultrathin Ti C T MXene for Enhanced Electrocatalytic Hydrogen Evolution. 2019 , 12, 1368-1373	104
1729	Integrating carbonyl iron with sponge to enable lightweight and dual-frequency absorption. 2019 , 30, 195703	8

1728	Enhanced electromagnetic absorbing performance of MOF-derived Ni/NiO/Cu@C composites. 2019 , 164, 583-589	63
1727	Facile fabrication of highly conductive and robust three-dimensional graphene/silver nanowires bicontinuous skeletons for electromagnetic interference shielding silicone rubber nanocomposites. 2019 , 119, 101-110	42
1726	Electrochemical performance of two-dimensional Ti3C2-Mn3O4 nanocomposites and carbonized iron cations for hybrid supercapacitor electrodes. 2019 , 301, 487-499	38
1725	2D carbide MXene Ti2CTX as a novel high-performance electromagnetic interference shielding material. 2019 , 146, 210-217	92
1724	Duplex printing of all-in-one integrated electronic devices for temperature monitoring. 2019, 7, 972-978	27
1723	Electrospun MXene/carbon nanofibers as supercapacitor electrodes. 2019 , 7, 269-277	272
1722	Construction of a micro/nano structured surface on a ETCP/CaSiO3 bioceramic promotes osteogenic differentiation of mBMSCs. 2019 , 21, 513-523	3
1721	3D Ti3C2Tx MXene/C hybrid foam/epoxy nanocomposites with superior electromagnetic interference shielding performances and robust mechanical properties. 2019 , 123, 293-300	106
1720	The Future of Layer-by-Layer Assembly: A Tribute to ACS Nano Associate Editor Helmuth Milwald. 2019 , 13, 6151-6169	127
1719	Orthogonal pattern of spinnable multiwall carbon nanotubes for electromagnetic interference shielding effectiveness. 2019 , 152, 33-39	11
1718	Niobium carbide/reduced graphene oxide hybrid porous aerogel as high capacity and long-life anode material for Li-ion batteries. 2019 , 43, 4995-5003	26
1717	EMI shielding properties of polymer blends with inclusion of graphene nano platelets. 2019 , 14, 102365	51
1716	Steady microwave absorption behavior of two-dimensional metal carbide MXene and Polyaniline composite in X-band. 2019 , 488, 165364	37
1715	NitrogenBulfur Co-Doped Reduced Graphene Oxide-Nickel Oxide Nanoparticle Composites for Electromagnetic Interference Shielding. 2019 , 2, 4626-4636	38
1714	Recent Advances in Polymer and Polymer Composites for Electromagnetic Interference Shielding: Review and Future Prospects. 2019 , 59, 687-738	74
1713	MXenes for Plasmonic Photodetection. 2019 , 31, e1807658	90
1712	Promising TiCT MXene/Ni Chain Hybrid with Excellent Electromagnetic Wave Absorption and Shielding Capacity. 2019 , 11, 25399-25409	183
1711	Plasmonic TiCT MXene Enables Highly Efficient Photothermal Conversion for Healable and Transparent Wearable Device. 2019 , 13, 8124-8134	132

1710	Synthesis, structure, properties and applications of MXenes: Current status and perspectives. 2019 , 45, 18167-18188	177
1709	Effect of electroless nickel plating on electromagnetic interference shielding effectiveness of pitch-based carbon papers/epoxy composites. 2019 , 1, 035001	3
1708	Compressible Highly Stable 3D Porous MXene/GO Foam with a Tunable High-Performance Stealth Property in the Terahertz Band. 2019 , 11, 25369-25377	44
1707	An ultra-thin carbon-fabric/graphene/poly(vinylidene fluoride) film for enhanced electromagnetic interference shielding. 2019 , 11, 13587-13599	45
1706	Antioxidants Unlock Shelf-Stable Ti3C2T (MXene) Nanosheet Dispersions. 2019 , 1, 513-526	210
1705	Continuous SiCN Fibers with Interfacial SiC N Phase as Structural Materials for Electromagnetic Absorbing Applications. 2019 , 11, 22885-22894	24
1704	Two-Dimensional Vanadium Carbide MXene for Gas Sensors with Ultrahigh Sensitivity Toward Nonpolar Gases. 2019 ,	135
1703	Layer-by-layer self-assembly of pillared two-dimensional multilayers. 2019 , 10, 2558	98
1702	The role of graphene oxide precursor morphology in magnetic and microwave absorption properties of nitrogen-doped graphene. 2019 , 52, 305001	24
1701	Highly stretchable electromagnetic interference (EMI) shielding segregated polyurethane/carbon nanotube composites fabricated by microwave selective sintering. 2019 , 7, 7938-7946	90
1700	Atomic Repartition in MXenes by Electron Probes. 2019 , 31, 4385-4391	11
1699	Facile fabrication of conductive silver films on carbon fiber fabrics via two components spray deposition technique for electromagnetic interference shielding. 2019 , 487, 1245-1252	25
1698	MXenes: An Introduction of Their Synthesis, Select Properties, and Applications. 2019 , 1, 656-669	164
1697	0D/2D NiS2/V-MXene composite for electrocatalytic H2 evolution. 2019 , 375, 8-20	85
1696	Quick mass-production of MAX (TiAlC) book with pages separated by stacking faults benefiting removal of "A" layer. 2019 , 55, 7522-7525	2
1695	Electromagnetic shielding effectiveness and electrical conductivity of a thin silver layer deposited onto cellulose film via electroless plating. 2019 , 30, 12044-12053	5
1694	3D Macroscopic Architectures from Self-Assembled MXene Hydrogels. 2019 , 29, 1903960	207
1693	Water treatment and environmental remediation applications of two-dimensional metal carbides (MXenes). 2019 , 30, 80-102	203

1692	Quantum-Confined-Superfluidics-Enabled Moisture Actuation Based on Unilaterally Structured Graphene Oxide Papers. 2019 , 31, e1901585	43
1691	Ultralight and high-elastic carbon foam with hollow framework for dynamically tunable electromagnetic interference shielding at gigahertz frequency. 2019 , 153, 330-336	32
1690	MnO2 nanorods/MXene/CC composite electrode for flexible supercapacitors with enhanced electrochemical performance. 2019 , 802, 259-268	58
1689	Enhanced electromagnetic wave absorption of worm-like hollow porous MnO@C/CNTs composites. 2019 , 797, 1086-1094	13
1688	Shape-Adaptable 2D Titanium Carbide (MXene) Heater. 2019 , 13, 6835-6844	99
1687	Fluorine-free Ti3C2Tx (T = O, OH) nanosheets (~50100 nm) for nitrogen fixation under ambient conditions. 2019 , 7, 14462-14465	50
1686	A comparative study of physico-mechanical and electrical properties of polymer-carbon nanofiber in wet and melt mixing methods. 2019 , 245, 95-106	23
1685	Achieving high electrical conductivity and excellent electromagnetic interference shielding in poly(lactic acid)/silver nanocomposites by constructing large-area silver nanoplates in polymer matrix. 2019 , 171, 204-213	54
1684	Ordered double-M elements MXenes TiMC: Large in-plane stiffness and ferromagnetism. 2019 , 486, 165280	9
1683	Fabrication of Three-Dimensional Flower-like Heterogeneous FeO/Fe Particles with Tunable Chemical Composition and Microwave Absorption Performance. 2019 , 11, 19267-19276	84
1682	Nylon-6/TiCT MXene Nanocomposites Synthesized by in Situ Ring Opening Polymerization of $\bar{\mu}$ -Caprolactam and Their Water Transport Properties. 2019 , 11, 20425-20436	30
1681	Recent advances of porous transition metal-based nanomaterials for electrochemical energy conversion and storage applications. 2019 , 13, 64-84	40
1680	MXene Boosted CoNi-ZIF-67 as Highly Efficient Electrocatalysts for Oxygen Evolution. 2019 , 9,	42
1679	Amorphous SnS nanosheets/graphene oxide hybrid with efficient dielectric loss to improve the high-frequency electromagnetic wave absorption properties. 2019 , 486, 344-353	22
1678	Selective electromagnetic interference shielding performance and superior mechanical strength of conductive polymer composites with oriented segregated conductive networks. 2019 , 373, 556-564	74
1677	Silicon carbide/phosphate ceramics composite for electromagnetic shielding applications: Whiskers vs particles. 2019 , 114, 183105	12
1676	Ultrastrong Graphene Films via Long-Chain Bridging. 2019 , 1, 389-401	57
1675	Plasmonic Light Illumination Creates a Channel To Achieve Fast Degradation of TiCT Nanosheets. 2019 , 58, 7285-7294	17

1674	Structuring micro/nanoscale hybrid Fe@SiC flakes for tunable microwave absorption properties. 2019 , 118, 110487	4
1673	Effect of Ti3AlC2 MAX Phase on Structure and Properties of Resultant Ti3C2Tx MXene. 2019 , 2, 3368-3376	92
1672	Computational Discovery of Transparent Conducting In-Plane Ordered MXene (i-MXene) Alloys. 2019 , 31, 4124-4132	5
1671	Electromagnetic interference shielding in X-band with aero-GaN. 2019 , 30, 34LT01	8
1670	Alginate-templated synthesis of CoFe/carbon fiber composite and the effect of hierarchically porous structure on electromagnetic wave absorption performance. 2019 , 151, 36-45	108
1669	MXene Ti3C2Tx for phase change composite with superior photothermal storage capability. 2019 , 7, 14319-14327	110
1668	Superhydrophobic/Flame Retardant/EMI Shielding Fabrics: Manufacturing Techniques and Property Evaluations. 2019 , 9, 1914	5
1667	MXene Ti3C2Tx: A Promising Photothermal Conversion Material and Application in All-Optical Modulation and All-Optical Information Loading. 2019 , 7, 1900060	75
1666	Poly(dimethylsilylene)diacetylene-Guided ZIF-Based Heterostructures for Full Ku-Band Electromagnetic Wave Absorption. 2019 , 11, 17706-17713	49
1665	Fabrication of Flexible, Lightweight, Magnetic Mushroom Gills and Coral-Like MXene?Carbon Nanotube Nanocomposites for EMI Shielding Application. 2019 , 9,	20
1664	Lightweight Hierarchical Carbon Nanocomposites with Highly Efficient and Tunable Electromagnetic Interference Shielding Properties. 2019 , 11, 19331-19338	60
1663	Room-Temperature Ferromagnetic SrYCoO and Carbon Black-Reinforced Polyvinylidenefluoride Composites toward High-Performance Electromagnetic Interference Shielding. 2019 , 4, 8196-8206	17
1662	Novel Straw-Derived Carbon Materials for Electromagnetic Interference Shielding: A Waste-to-Wealth and Sustainable Initiative. 2019 , 7, 9663-9670	40
1661	In situ synthesis of BiOCl nanosheets on three-dimensional hierarchical structures for efficient photocatalysis under visible light. 2019 , 11, 10203-10208	23
1660	Highly expansive, thermally insulating epoxy/Ag nanosheet composite foam for electromagnetic interference shielding. 2019 , 372, 191-202	54
1659	Eco-friendly flame retardant and electromagnetic interference shielding cotton fabrics with multi-layered coatings. 2019 , 372, 1077-1090	141
1658	Lightweight Composite Microwave Absorbing Materials Based on Graphene Aerogels with Honeycomb Structure. 2019 , 13, 1900179	15
1657	Fabrication on the annealed Ti3C2Tx MXene/Epoxy nanocomposites for electromagnetic interference shielding application. 2019 , 171, 111-118	201

FeNC/MXene hybrid nanosheet as an efficient electrocatalyst for oxygen reduction reaction 2019 , 9, 13424-13430	41
Improvement of Gas and Humidity Sensing Properties of Organ-like MXene by Alkaline Treatment. 2019 , 4, 1261-1269	107
High Dielectric Constant and Low Dielectric Loss via Poly(vinyl alcohol)/TiCT MXene Nanocomposites. 2019 , 11, 18599-18608	78
Bottom-up synthesis of 2D Co-based metal@rganic framework nanosheets by an ammonia-assisted strategy for tuning the crystal morphology. 2019 , 21, 3199-3208	14
A general method for constructing robust, flexible and freestanding MXene@metal anodes for high-performance potassium-ion batteries. 2019 , 7, 9716-9725	110
Anisotropic MXene Aerogels with a Mechanically Tunable Ratio of Electromagnetic Wave Reflection to Absorption. 2019 , 7, 1900267	138
Significantly enhanced electromagnetic interference shielding in Al2O3 ceramic composites incorporated with highly aligned non-woven carbon fibers. 2019 , 45, 12672-12676	6
Study on foamability and electromagnetic interference shielding effectiveness of supercritical CO2 foaming epoxy/rubber/MWCNTs composite. 2019 , 121, 64-73	53
Synergetic effect of Fe3O4 nanoparticles and carbon on flexible poly (vinylidence fluoride) based films with higher heat dissipation to improve electromagnetic shielding. 2019 , 121, 139-148	55
Eco-mimetic nanoarchitecture for green EMI shielding. 2019 , 369, 1068-1077	118
Electrocatalytic and Optoelectronic Characteristics of the Two-Dimensional Titanium Nitride TiNT MXene. 2019 , 11, 11812-11823	50
Scalable Manufacturing of Large and Flexible Sheets of MXene/Graphene Heterostructures. 2019 , 4, 1800639	60
Tuning the Electrical Conductivity of Ti2CO2 MXene by Varying the Layer Thickness and Applying Strains. 2019 , 123, 6802-6811	25
Highly Transparent and Broadband Electromagnetic Interference Shielding Based on Ultrathin Doped Ag and Conducting Oxides Hybrid Film Structures. 2019 , 11, 11782-11791	45
Electrochromic Effect in Titanium Carbide MXene Thin Films Produced by Dip-Coating. 2019, 29, 1809223	80
Electromagnetic interference shielding behavior of chemically and thermally reduced graphene based multifunctional polyurethane nanocomposites: A comparative study. 2019 , 136, 47666	15
Doped Graphene for Electrochemical Energy Storage Systems. 2019 , 511-612	1
Effects of Synthesis and Processing on Optoelectronic Properties of Titanium Carbonitride MXene. 2019 , 31, 2941-2951	98
	Improvement of Gas and Humidity Sensing Properties of Organ-like MXene by Alkaline Treatment. 2019, 4, 1261-1269 High Dielectric Constant and Low Dielectric Loss via Poly(vinyl alcohol)/TiCT MXene Nanocomposites. 2019, 11, 18599-18608 Bottom-up synthesis of 2D Co-based metalBrganic framework nanosheets by an ammonia-assisted strategy for tuning the crystal morphology. 2019, 21, 3199-3208 A general method for constructing robust, flexible and freestanding MXene@metal anodes for high-performance potassium-ion batteries. 2019, 7, 9716-9725 Anisotropic MXene Aerogels with a Mechanically Tunable Ratio of Electromagnetic Wave Reflection to Absorption. 2019, 7, 1900267 Significantly enhanced electromagnetic interference shielding in Al2O3 ceramic composites incorporated with highly aligned non-woven carbon fibers. 2019, 45, 12672-12676 Study on foamability and electromagnetic interference shielding effectiveness of supercritical CO2 foaming epoxy/rubber/MWCNTs composite. 2019, 121, 64-73 Synergetic effect of Fe3O4 nanoparticles and carbon on flexible poly (vinylidence fluoride) based films with higher heat dissipation to improve electromagnetic shielding. 2019, 121, 139-148 Eco-mimetic nanoarchitecture for green EMI shielding. 2019, 369, 1068-1077 Electrocatalytic and Optoelectronic Characteristics of the Two-Dimensional Titanium Nitride TiNT Mxene. 2019, 11, 11812-11823 Scalable Manufacturing of Large and Flexible Sheets of MXene/Graphene Heterostructures. 2019, 4, 1800639 Tuning the Electrical Conductivity of Ti2CO2 MXene by Varying the Layer Thickness and Applying Strains. 2019, 123, 6802-6811 Highly Transparent and Broadband Electromagnetic Interference Shielding Based on Ultrathin Doped Ag and Conducting Oxides Hybrid Film Structures. 2019, 11, 1182-11791 Electrochromic Effect in Titanium Carbide MXene Thin Films Produced by Dip-Coating. 2019, 29, 1809223 Electromagnetic Interference shielding behavior of chemically and thermally reduced graphene based multifunctional polyurethane nanocomposites: A

1638	Ionic liquid pre-intercalated MXene films for ionogel-based flexible micro-supercapacitors with high volumetric energy density. 2019 , 7, 9478-9485	74
1637	Unraveling the multiscale damping properties of two-dimensional layered MXene. 2019 , 8, 84-95	3
1636	Flexible and transparent graphene/silver-nanowires composite film for high electromagnetic interference shielding effectiveness. 2019 , 64, 540-546	49
1635	White Photoluminescent TiC MXene Quantum Dots with Two-Photon Fluorescence. 2019 , 6, 1801470	92
1634	Mechanically Durable, Highly Conductive, and Anticorrosive Composite Fabrics with Excellent Self-Cleaning Performance for High-Efficiency Electromagnetic Interference Shielding. 2019 , 11, 10883-10894	75
1633	Production and Patterning of Liquid Phase E xfoliated 2D Sheets for Applications in Optoelectronics. 2019 , 29, 1901126	45
1632	Overview of the synthesis of MXenes and other ultrathin 2D transition metal carbides and nitrides. 2019 , 23, 149-163	178
1631	Crab-on-a-Tree: All Biorenewable, Optical and Radio Frequency Transparent Barrier Nanocoating for Food Packaging. 2019 , 13, 3796-3805	40
1630	Mxenes Derived Laminated and Magnetic Composites with Excellent Microwave Absorbing Performance. 2019 , 9, 3957	32
1629	Recent advances in micro-supercapacitors. 2019 , 11, 5807-5821	60
1628	MXetronics: Electronic and photonic applications of MXenes. 2019 , 60, 179-197	128
1627	Room-temperature production of silver-nanofiber film for large-area, transparent and flexible surface electromagnetic interference shielding. 2019 , 3,	107
1626	Atomic Layer Tailoring Titanium Carbide MXene To Tune Transport and Polarization for Utilization of Electromagnetic Energy beyond Solar and Chemical Energy. 2019 , 11, 12535-12543	115
1625	MXene-Based Composites: Synthesis and Applications in Rechargeable Batteries and Supercapacitors. 2019 , 6, 1802004	124
1624	Oriented Polarization Tuning Broadband Absorption from Flexible Hierarchical ZnO Arrays Vertically Supported on Carbon Cloth. 2019 , 15, e1900900	133
1623	A MXene-Based Wearable Biosensor System for High-Performance In Vitro Perspiration Analysis. 2019 , 15, e1901190	157
1622	High conductive and mechanical robust carbon nanotubes/waterborne polyurethane composite films for efficient electromagnetic interference shielding. 2019 , 121, 411-417	61
1621	Novel multilayer-like structure of Ti3C2Tx/CNZF composites for low-frequency electromagnetic absorption. 2019 , 248, 214-217	34

(2019-2019)

1620	The theranostic nanoagent MoC for multi-modal imaging-guided cancer synergistic phototherapy. 2019 , 7, 2729-2739	23
1619	Ultra-flexible and high-performance electromagnetic wave shielding film based on CNTF/liquid metal composite films. 2019 , 125, 134906	8
1618	Bio-molecule adenine building block effectively enhances electromagnetic interference shielding performance of polyimide-derived carbon foam. 2019 , 149, 190-202	38
1617	0D/2D AgInS2/MXene Z-scheme heterojunction nanosheets for improved ammonia photosynthesis of N2. 2019 , 61, 27-35	103
1616	Ultrathin Molybdenum Carbide MXene with Fast Biodegradability for Highly Efficient Theory-Oriented Photonic Tumor Hyperthermia. 2019 , 29, 1901942	72
1615	Constructing a tunable heterogeneous interface in bimetallic metal-organic frameworks derived porous carbon for excellent microwave absorption performance. 2019 , 148, 421-429	70
1614	A versatile strategy towards magnetic/dielectric porous heterostructure with confinement effect for lightweight and broadband electromagnetic wave absorption. 2019 , 370, 988-996	48
1613	Two-dimensional V4C3 MXene as high performance electrode materials for supercapacitors. 2019 , 307, 414-421	55
1612	MXenes and ultrasonication. 2019 , 7, 10843-10857	101
1611	Thermal stability and dielectric properties of 2D Ti 2 C MXenes via annealing under a gas mixture of Ar and H 2 atmosphere. 2019 , 1, 015002	9
1610	Electromagnetic Response and Energy Conversion for Functions and Devices in Low-Dimensional Materials. 2019 , 29, 1807398	372
1609	Lattice constant-dependent anchoring effect of MXenes for lithium-sulfur (Li-S) batteries: a DFT study. 2019 , 11, 8485-8493	52
1608	MXenes with tunable work functions and their application as electron- and hole-transport materials in non-fullerene organic solar cells. 2019 , 7, 11160-11169	80
1607	Theory-guided materials design: two-dimensional MXenes in electro- and photocatalysis. 2019 , 4, 809-827	132
1606	Lightweight and flexible hybrid film based on delicate design of electrospun nanofibers for high-performance electromagnetic interference shielding. 2019 , 11, 8616-8625	54
1605	Free-standing MXene film modified by amorphous FeOOH quantum dots for high-performance asymmetric supercapacitor. 2019 , 308, 1-8	37
1604	High-Temperature Behavior and Surface Chemistry of Carbide MXenes Studied by Thermal Analysis. 2019 , 31, 3324-3332	162
1603	Surface Termination Dependent Work Function and Electronic Properties of Ti3C2Tx MXene. 2019 , 31, 6590-6597	169

1602	. 2019,	2
1601	Interface decoration of exfoliated MXene ultra-thin nanosheets for fire and smoke suppressions of thermoplastic polyurethane elastomer. 2019 , 374, 110-119	182
1600	Recoverable and self-healing electromagnetic wave absorbing nanocomposites. 2019 , 174, 27-32	75
1599	Ultrathin nitrogen-doping graphene films for flexible and stretchable EMI shielding materials. 2019 , 54, 7165-7179	29
1598	Graphene-Based Materials toward Microwave and Terahertz Absorbing Stealth Technologies. 2019 , 7, 1801318	120
1597	Promoting Role of MXene Nanosheets in Biomedical Sciences: Therapeutic and Biosensing Innovations. 2019 , 8, e1801137	141
1596	All-electrospun flexible triboelectric nanogenerator based on metallic MXene nanosheets. 2019 , 59, 268-276	174
1595	Electronic Structure and Electromagnetic Properties for 2D Electromagnetic Functional Materials in Gigahertz Frequency. 2019 , 531, 1800390	136
1594	Ultrathin MXene/Calcium Alginate Aerogel Film for High-Performance Electromagnetic Interference Shielding. 2019 , 6, 1802040	128
1593	A Series of MAX Phases with MA-Triangular-Prism Bilayers and Elastic Properties. 2019 , 58, 4576-4580	16
1592	Circuit-integratable high-frequency micro supercapacitors with filter/oscillator demonstrations. 2019 , 58, 803-810	49
1591	In-Situ Growth and Graphitization Synthesis of Porous Fe3O4/Carbon Fiber Composites Derived from Biomass as Lightweight Microwave Absorber. 2019 , 7, 5318-5328	77
1590	Megahertz-wave-transmitting conducting polymer electrode for device-to-device integration. 2019 , 10, 653	8
1589	Oxidation stability of Ti3C2Tx MXene nanosheets in solvents and composite films. 2019 , 3,	162
1588	High-performance graphene oxide nanofiltration membrane with continuous nanochannels prepared by the in situ oxidation of MXene. 2019 , 7, 6475-6481	79
1587	Laser-Cutting Fabrication of Mxene-Based Flexible Micro-Supercapacitors with High Areal Capacitance. 2019 , 5, 658-665	26
1586	A Series of MAX Phases with MA-Triangular-Prism Bilayers and Elastic Properties. 2019 , 131, 4624-4628	1
1585	Tailoring TiCT nanosheets to tune local conductive network as an environmentally friendly material for highly efficient electromagnetic interference shielding. 2019 , 11, 6080-6088	112

1584	Cold pressing-built microreactors to thermally manipulate microstructure of MXene film as an anode for high-performance lithium-ion batteries. 2019 , 305, 11-23	9
1583	Flexible and ultrathin electrospun regenerate cellulose nanofibers and d-Ti3C2Tx (MXene) composite film for electromagnetic interference shielding. 2019 , 788, 1246-1255	70
1582	Carbon-Coated MoSe/MXene Hybrid Nanosheets for Superior Potassium Storage. 2019 , 13, 3448-3456	242
1581	Element Replacement Approach by Reaction with Lewis Acidic Molten Salts to Synthesize Nanolaminated MAX Phases and MXenes. 2019 , 141, 4730-4737	355
1580	Two-dimensional MXene-reinforced robust surface superhydrophobicity with self-cleaning and photothermal-actuating binary effects. 2019 , 6, 1057-1065	86
1579	Polymer nanocomposites having a high filler content: synthesis, structures, properties, and applications. 2019 , 11, 4653-4682	95
1578	Promoted electro-responsive performances in an interface-confined oxidized niobium carbide MXene. 2019 , 366, 321-329	41
1577	Influence of water on the dielectric properties, electrical conductivity and microwave absorption properties of amorphous yellow dextrin. 2019 , 26, 2987-2998	7
1576	A Flexible Microwave Shield with Tunable Frequency-Transmission and Electromagnetic Compatibility. 2019 , 29, 1900163	231
1575	Strain Sensors with a High Sensitivity and a Wide Sensing Range Based on a Ti3C2Tx (MXene) NanoparticleNanosheet Hybrid Network. 2019 , 29, 1807882	110
1574	Electromagnetic Interference Shielding Properties of 2D MXene (Ti3C2Tx) by Metal nanoparticles Loading. 2019 ,	1
1573	MXene Based Dipole Antennas Involving Effects of Sheet Resistance. 2019,	
1572	A Hydrophobic, Self-Powered, Electromagnetic Shielding PVDF-Based Wearable Device for Human Body Monitoring and Protection. 2019 , 11, 47340-47349	44
1571	Strong Synergy between Ti3C2 and N-Doped Co Nanoparticles Boosts the Selective Hydrogenation of Propyne. 2019 , 58, 21413-21418	3
1570	Ultrathin and Light-Weight Graphene Aerogel with Precisely Tunable Density for Highly Efficient Microwave Absorbing. 2019 , 11, 46386-46396	52
1569	Breathable and Wearable MXene-Decorated Air-Laid Paper With Superior Folding Endurance and Electromagnetic Interference-Shielding Performances. 2019 , 6,	8
1568	Watt-level continuous-wave and high-repetition-rate mid-infrared lasers based on a Er3+-doped Ca0.8Sr0.2F2 crystal. 2019 , 12, 115505	3
1567	The Facile Preparation of Flexible Graphene/Carbon Nanotubes Hybrid Papers for Electromagnetic Interference Shielding. 2019 , 956, 87-98	3

1566	Mechanically strong and electrically conductive multilayer MXene nanocomposites. 2019 , 11, 20295-20300	52
1565	Ultrathin MXene/aramid nanofiber composite paper with excellent mechanical properties for efficient electromagnetic interference shielding. 2019 , 11, 23382-23391	105
1564	CNT coatings grown on the outer and inner surfaces of magnetic hollow carbon fibers with enhanced electromagnetic interference shielding performance. 2019 , 7, 14375-14383	12
1563	Controllable MXene nano-sheet/Au nanostructure architectures for the ultra-sensitive molecule Raman detection. 2019 , 11, 22230-22236	19
1562	Layer-by-Layer Assembly of Polyaniline Nanofibers and MXene Thin-Film Electrodes for Electrochemical Energy Storage. 2019 , 11, 47929-47938	20
1561	Nonpolar Organic Dispersion of 2D TiCT MXene Flakes Simultaneous Interfacial Chemical Grafting and Phase Transfer Method. 2019 , 13, 13818-13828	63
1560	A New Class of Scandium Carbide Nanosheet. 2019 , 9, 16624	1
1559	Broadband multi-wavelength optical sensing based on photothermal effect of 2D MXene films. 2019 , 9, 123-131	20
1558	Robustly Magnetic and Conductive Textile with High Electromagnetic Shielding Performance Prepared by Synchronous Thiol E ne Click Chemistry. 2019 , 58, 23154-23165	7
1557	The shape-dependent surface oxidation of 2D ultrathin Mo2C crystals. 2019 , 1, 4692-4696	3
1556	Lightweight and flexible MXene/CNF/silver composite membranes with a brick-like structure and high-performance electromagnetic-interference shielding 2019 , 9, 29636-29644	39
1555	Study on MnO/MXene-TiC composite materials as cathode materials for magnesium batteries 2019 , 9, 33572-33577	9
1554	Interaction of single- and double-stranded DNA with multilayer MXene by fluorescence spectroscopy and molecular dynamics simulations. 2019 , 10, 10010-10017	29
1553	Synthesis of rGO/p-Fe3O4@PANI three-phase nanomaterials and electromagnetic wave absorption properties. 2019 , 6, 125621	6
1552	Cobalt nanoparticles embedded nitrogen-doped porous graphitized carbon composites with enhanced microwave absorption performance. 2019 , 533, 297-303	32
1551	2D MXene-containing polymer electrolytes for all-solid-state lithium metal batteries. 2019 , 1, 395-402	61
1550	SnS nanoparticles anchored on Ti3C2 nanosheets matrix via electrostatic attraction method as novel anode for lithium ion batteries. 2019 , 357, 150-158	43
1549	Direct Writing of Additive-Free MXene-in-Water Ink for Electronics and Energy Storage. 2019 , 4, 1800256	78

1548	Exploring adsorption behavior and oxidation mechanism of mercury on monolayer Ti2CO2 (MXenes) from first principles. 2019 , 464, 53-60	25
1547	Construction of MXene/NiO composites through in-situ precipitation strategy for dispersibility improvement of NiO nanoparticles. 2019 , 45, 6597-6600	17
1546	A solid-state passively Q-switched Tm,Gd:CaF2laser with a Ti3C2TxMXene absorber near 2μm. 2019 , 16, 015803	57
1545	Microporous Co/rGO nanocomposites: Strong and broadband microwave absorber with well-matched dielectric and magnetic loss. 2019 , 782, 556-565	15
1544	Two-dimensional titanium carbide MXenes as efficient non-noble metal electrocatalysts for oxygen reduction reaction. 2019 , 62, 662-670	44
1543	Electrical promotion of spatially photoinduced charge separation via interfacial-built-in quasi-alloying effect in hierarchical Zn2In2S5/Ti3C2(O, OH)x hybrids toward efficient photocatalytic hydrogen evolution and environmental remediation. 2019 , 245, 290-301	155
1542	Multifunctional and Water-Resistant MXene-Decorated Polyester Textiles with Outstanding Electromagnetic Interference Shielding and Joule Heating Performances. 2019 , 29, 1806819	350
1541	Highly Conductive and Machine-Washable Textiles for Efficient Electromagnetic Interference Shielding. 2019 , 4, 1800503	67
1540	Ultralight carbon-based Co(OH)2-Co3O4/ nanocomposite with superior performance in wave absorption. 2019 , 777, 954-962	21
1539	Self-assembled nanostructures of 3D hierarchical faceted-iron oxide containing vertical carbon nanotubes on reduced graphene oxide hybrids for enhanced electromagnetic interface shielding. 2019 , 168, 66-76	61
1538	A general aerosol-assisted biosynthesis of functional bulk nanocomposites. 2019 , 6, 64-73	30
1537	Electrically-Transduced Chemical Sensors Based on Two-Dimensional Nanomaterials. 2019 , 119, 478-598	294
1536	Multifunctional OrganicInorganic Hybrid Aerogel for Self-Cleaning, Heat-Insulating, and Highly Efficient Microwave Absorbing Material. 2019 , 29, 1807624	291
1535	Bioinspired Ultrasensitive and Stretchable MXene-Based Strain Sensor via Nacre-Mimetic Microscale "Brick-and-Mortar" Architecture. 2019 , 13, 649-659	202
1534	Hydration of Ti3C2Tx MXene: An Interstratification Process with Major Implications on Physical Properties. 2019 , 31, 454-461	33
1533	Applications of 2D MXenes in energy conversion and storage systems. 2019 , 48, 72-133	878
1532	Ni@C composites derived from Ni-based metal organic frameworks with a lightweight, ultrathin, broadband and highly efficient microwave absorbing properties. 2019 , 12, 011001	17
1531	Cobalt decorated ultra-thin Ti3C2 MXene electrocatalyst for high-efficiency hydrogen evolution reaction. 2019 , 6, 025056	8

1530	Pillared MXene with Ultralarge Interlayer Spacing as a Stable Matrix for High Performance Sodium Metal Anodes. 2019 , 29, 1805946	160
1529	Percolation behavior of electromagnetic interference shielding in polymer/multi-walled carbon nanotube nanocomposites. 2019 , 170, 70-76	70
1528	Bipolar carbide-carbon high voltage aqueous lithium-ion capacitors. 2019 , 56, 151-159	50
1527	2D MXenes: Electromagnetic property for microwave absorption and electromagnetic interference shielding. 2019 , 359, 1265-1302	418
1526	Nanoindentation of monolayer Ti C T MXenes via atomistic simulations: The role of composition and defects on strength. 2019 , 157, 168-174	29
1525	Electrical properties of epoxy nanocomposites containing Fe3O4 nanoparticles and Fe3O4 nanoparticles deposited on the surface of electrochemically exfoliated and oxidized graphite. 2019 , 474, 66-77	16
1524	Structurally Controlled Cellular Architectures for High-Performance Ultra-Lightweight Materials. 2019 , 31, e1803670	38
1523	MXene/Polymer Hybrid Materials for Flexible AC-Filtering Electrochemical Capacitors. 2019 , 3, 164-176	153
1522	FeSiAl/metal core shell hybrid composite with high-performance electromagnetic interference shielding. 2019 , 172, 66-73	26
1521	Lightweight and flexible Ni-Co alloy nanoparticle-coated electrospun polymer nanofiber hybrid membranes for high-performance electromagnetic interference shielding. 2019 , 784, 244-255	39
1520	Two-Dimensional Anode Materials for Non-lithium Metal-Ion Batteries. 2019 , 2, 932-955	49
1519	Probing the Domain Architecture in 2D \(\frac{1}{2}\)Mo C via Polarized Raman Spectroscopy. 2019 , 31, e1807160	35
1518	Powerful absorbing and lightweight electromagnetic shielding CNTs/RGO composite. 2019 , 145, 61-66	164
1517	Mitigating the electromagnetic radiation by coupling use of waste cathode-ray tube glass and graphene oxide on cement composites. 2019 , 168, 25-33	19
1516	Strong microwave absorption of Fe@SiO2 nanocapsules fabricated by one-step high energy plasma. 2019 , 129, 242-251	11
1515	Achieving Fast Kinetics and Enhanced Li Storage Capacity for Ti3C2O2 by Intercalation of Quinone Molecules. 2019 , 2, 1251-1258	15
1514	Microwave absorbing properties of two dimensional materials GeP5 enhanced after annealing treatment. 2019 , 114, 013103	16
1513	TiCT MXene decorated with Sb nanoparticles as anodes material for sodium-ion batteries. 2019 , 30, 134001	23

1512	Grain Boundaries and Tilt-Angle-Dependent Transport Properties of a 2D MoC Superconductor. 2019 , 19, 857-865	13
1511	Enhancement of electromagnetic interference shielding effectiveness with alignment of spinnable multiwalled carbon nanotubes. 2019 , 142, 528-534	16
1510	Lightweight and ultrathin TiO2-Ti3C2TX/graphene film with electromagnetic interference shielding. 2019 , 360, 1158-1166	57
1509	Delaminated Ti3C2Tx (MXene) for electrochemical carbendazim sensing. 2019 , 236, 412-415	42
1508	Flexible and conductive polyurethane composites for electromagnetic shielding and printable circuit. 2019 , 360, 1427-1436	55
1507	2D Transition Metal Carbides (MXenes) for Carbon Capture. 2019 , 31, e1805472	108
1506	Layered structural design of flexible waterborne polyurethane conductive film for excellent electromagnetic interference shielding and low microwave reflectivity. 2019 , 469, 1-9	54
1505	Ti3C2Tx MXene/polyaniline (PANI) sandwich intercalation structure composites constructed for microwave absorption. 2019 , 169, 52-59	106
1504	Dual-Functional Graphene Composites for Electromagnetic Shielding and Thermal Management. 2019 , 5, 1800558	133
1503	Stretchable and durable conductive fabric for ultrahigh performance electromagnetic interference shielding. 2019 , 144, 101-108	129
1502	Metal-Organic Framework Derived Hierarchical Co/C@V O Hollow Spheres as a Thin, Lightweight, and High-Efficiency Electromagnetic Wave Absorber. 2019 , 25, 2234-2241	61
1501	Flexible, durable and thermal conducting thiol-modified rGO-WPU/cotton fabric for robust electromagnetic interference shielding. 2019 , 360, 817-828	62
1500	Consecutively Strong Absorption from Gigahertz to Terahertz Bands of a Monolithic Three-Dimensional FeO/Graphene Material. 2019 , 11, 1274-1282	64
1499	Insights Into Interfacial Interaction and Its Influence on the Electronic and Optical Properties of Two-Dimensional WS2/TX2CO2 (TX = Ti, Zr) van der Waals Heterostructures. 2019 , 256, 1800377	1
1498	Surface and Heterointerface Engineering of 2D MXenes and Their Nanocomposites: Insights into Electro- and Photocatalysis. 2019 , 5, 18-50	365
1497	Design and Synthesis of Polymer Nanocomposites. 2019 , 47-83	44
1496	Synthesis of nonstoichiometric Co0.8Fe2.2O4/reduced graphene oxide (rGO) nanocomposites and their excellent electromagnetic wave absorption property. 2019 , 774, 997-1008	41
1495	AgNps-PVABoated woven cotton fabric: Preparation, water repellency, shielding properties and antibacterial activity. 2019 , 48, 1545-1565	16

1494	Structural defects in MAX phases and their derivative MXenes: A look forward. 2020 , 38, 205-220	27
1493	Customized unique core-shell Fe2N@N-doped carbon with tunable void space for microwave response. 2020 , 156, 49-57	72
1492	Lightweight and flexible graphene/SiC-nanowires/ poly(vinylidene fluoride) composites for electromagnetic interference shielding and thermal management. 2020 , 156, 58-66	84
1491	Intriguing of two-dimensional Janus surface-functionalized MXenes: An ab initio calculation. 2020 , 171, 109231	31
1490	Environmentally stable macroscopic graphene films with specific electrical conductivity exceeding metals. 2020 , 156, 205-211	21
1489	Visible and IR transparent Co-doped SnO2 thin films with efficient electromagnetic shielding performance. 2020 , 815, 152480	6
1488	Broadband Electromagnetic Response and Enhanced Microwave Absorption in Carbon Black and Magnetic Fe3O4 Nanoparticles Reinforced Polyvinylidenefluoride Composites. 2020 , 49, 1666-1676	22
1487	Mixed analogous heterostructure based on MXene and prussian blue analog derivative for high-performance flexible energy storage. 2020 , 387, 123170	18
1486	Diffusion-controlled intercalation approach to synthesize the Ti2AlC MAX phase coatings at low temperature of 550 °C. 2020 , 502, 144130	10
1485	2 D MXene-based Energy Storage Materials: Interfacial Structure Design and Functionalization. 2020 , 13, 1409-1419	43
1484	High-efficiency electromagnetic interference shielding realized in nacre-mimetic graphene/polymer composite with extremely low graphene loading. 2020 , 157, 570-577	85
1483	Stretchable microwave absorbing and electromagnetic interference shielding foam with hierarchical buckling induced by solvent swelling. 2020 , 157, 466-477	36
1482	Nb2SiTe4 and Nb2GeTe4: Unexplored 2D Ternary Layered Tellurides with High Stability, Narrow Band Gap and High Electron Mobility. 2020 , 49, 959-968	16
1481	Novel room-temperature ferromagnetism in Gd-doped 2-dimensional Ti3C2Tx MXene semiconductor for spintronics. 2020 , 497, 165954	23
1480	Magnetic CoFe alloy@C nanocomposites derived from ZnCo-MOF for electromagnetic wave absorption. 2020 , 383, 123096	90
1479	Highly flexible and ultra-thin carbon-fabric/Ag/waterborne polyurethane film for ultra-efficient EMI shielding. 2020 , 185, 108227	42
1478	Multilayer-structured Ni-Co-Fe-P/polyaniline/polyimide composite fabric for robust electromagnetic shielding with low reflection characteristic. 2020 , 380, 122553	47
1477	Flame-retardant poly(vinyl alcohol)/MXene multilayered films with outstanding electromagnetic interference shielding and thermal conductive performances. 2020 , 380, 122475	228

1476	Prism-shaped hollow carbon decorated with polyaniline for microwave absorption. 2020 , 379, 122393	85
1475	Multifunctional microcellular PVDF/Ni-chains composite foams with enhanced electromagnetic interference shielding and superior thermal insulation performance. 2020 , 379, 122304	108
1474	Flexible Foil of Hybrid TaS /Organic Superlattice: Fabrication and Electrical Properties. 2020 , 16, e1901901	10
1473	2D Nanomaterials for Cancer Theranostic Applications. 2020 , 32, e1902333	193
1472	Wearable Electronics Based on 2D Materials for Human Physiological Information Detection. 2020 , 16, e1901124	52
1471	A lightweight and conductive MXene/graphene hybrid foam for superior electromagnetic interference shielding. 2020 , 381, 122696	161
1470	Compressible, durable and conductive polydimethylsiloxane-coated MXene foams for high-performance electromagnetic interference shielding. 2020 , 381, 122622	157
1469	Facile fabrication of flexible rGO/MXene hybrid fiber-like electrode with high volumetric capacitance. 2020 , 448, 227398	30
1468	Water-based conductive ink for highly efficient electromagnetic interference shielding coating. 2020 , 384, 123368	54
1467	Preparation of two-dimensional titanium carbide (Ti3C2Tx) and NiCo2O4 composites to achieve excellent microwave absorption properties. 2020 , 180, 107577	121
1466	MXenes induce epitaxial growth of size-controlled noble nanometals: A case study for surface enhanced Raman scattering (SERS). 2020 , 40, 119-127	35
1465	Enhanced gas sensing properties at low working temperature of iron molybdate/MXene composite. 2020 , 817, 152785	22
1464	A facile strategy for the core-shell FeSiAl composites with high-efficiency electromagnetic wave absorption. 2020 , 818, 152861	10
1463	MXene and MXene-based composites: synthesis, properties and environment-related applications. 2020 , 5, 235-258	240
1462	An Electrical Switch-Driven Flexible Electromagnetic Absorber. 2020 , 30, 1907251	153
1461	2D Ti3C2Tx MXene/aramid nanofibers composite films prepared via a simple filtration method with excellent mechanical and electromagnetic interference shielding properties. 2020 , 46, 6199-6204	34
1460	Spontaneous growth and regulation of noble metal nanoparticles on flexible biomimetic MXene paper for bioelectronics. 2020 , 148, 111799	50
1459	Highly selective sodium alginate mixed-matrix membrane incorporating multi-layered MXene for ethanol dehydration. 2020 , 235, 116206	18

1458	A photo catalyst of cuprous oxide anchored MXene nanosheet for dramatic enhancement of synergistic antibacterial ability. 2020 , 386, 124116	52
1457	Lightweight, flexible MXene/polymer film with simultaneously excellent mechanical property and high-performance electromagnetic interference shielding. 2020 , 130, 105764	89
1456	Two-Dimensional MXenes Mo2Ti2C3Tz and Mo2TiC2Tz: Microscopic Conductivity and Dynamics of Photoexcited Carriers. 2020 , 3, 1530-1539	14
1455	Synthesis and Li-ion electrode properties of layered MAB phases Nin+1ZnBn (n = 1, 2). 2020 , 8, 1646-1651	10
1454	Controlled reduction of graphene oxide laminate and its applications for ultra-wideband microwave absorption. 2020 , 160, 307-316	27
1453	Flexible and durable cellulose/MXene nanocomposite paper for efficient electromagnetic interference shielding. 2020 , 188, 107995	75
1452	Two-dimensional semiconducting LuCT (T = F, OH) MXene with low work function and high carrier mobility. 2020 , 12, 3795-3802	14
1451	A high-performance trace level acetone sensor using an indispensable VCT MXene 2020 , 10, 1261-1270	22
1450	Mo2B, an MBene member with high electrical and thermal conductivities, and satisfactory performances in lithium ion batteries. 2020 , 2, 347-355	11
1449	Predictive theoretical screening of phase stability for chemical order and disorder in quaternary 312 and 413 MAX phases. 2020 , 12, 785-794	22
1448	Oxidation-resistant titanium carbide MXene films. 2020 , 8, 573-581	90
1447	Achieving wideband microwave absorption properties in PVDF nanocomposite foams with an ultra-low MWCNT content by introducing a microcellular structure. 2020 , 8, 58-70	73
1446	Distinguishing electronic contributions of surface and sub-surface transition metal atoms in Ti-based MXenes. 2020 , 7, 025015	17
1445	An effective utilization of MXene and its effect on electromagnetic interference shielding: flexible, free-standing and thermally conductive composite from MXene-PAT-poly(-aminophenol)-polyaniline co-polymer 2020 , 10, 1613-1633	35
1444	Boosting gravimetric and volumetric energy density via engineering macroporous MXene films for supercapacitors. 2020 , 395, 124057	40
1443	Layer-by-layer assembly of PDMS-coated nickel ferrite/multiwalled carbon nanotubes/cotton fabrics for robust and durable electromagnetic interference shielding. 2020 , 27, 2829-2845	27
1442	Fabrication of lightweight and flexible silicon rubber foams with ultra-efficient electromagnetic interference shielding and adjustable low reflectivity. 2020 , 8, 147-157	32
1441	Constructing a 3D interconnected Fe@graphitic carbon structure for a highly efficient microwave absorber. 2020 , 8, 1326-1334	13

1440	Magnetron-sputtering deposited molybdenum carbide MXene thin films as a saturable absorber for passively Q-switched lasers. 2020 , 8, 1608-1613	15
1439	Electrically conductive aluminum ion-reinforced MXene films for efficient electromagnetic interference shielding. 2020 , 8, 1673-1678	40
1438	Microsphere-Like SiO /MXene Hybrid Material Enabling High Performance Anode for Lithium Ion Batteries. 2020 , 16, e1905430	48
1437	Achieve high performance microwave shielding in poly(µ-caprolactone)/multi-wall carbon nanotube composites via balancing absorption in conductive domains and multiple scattering at interfaces. 2020 , 508, 145178	30
1436	Tunable negative permittivity behavior and electromagnetic shielding performance of silver/silicon nitride metacomposites. 2020 , 130, 105753	50
1435	MXene Surface Terminations Enable Strong Metal-Support Interactions for Efficient Methanol Oxidation on Palladium. 2020 , 12, 2400-2406	38
1434	Flexible and Transparent Ferroferric Oxide-Modified Silver Nanowire Film for Efficient Electromagnetic Interference Shielding. 2020 , 12, 2826-2834	32
1433	Enhanced Electromagnetic Wave-Absorbing Performance of Magnetic Nanoparticles-Anchored 2D TiCT MXene. 2020 , 12, 2644-2654	98
1432	Porosity- and Graphitization-Controlled Fabrication of Nanoporous Silicon@Carbon for Lithium Storage and Its Conjugation with MXene for Lithium-Metal Anode. 2020 , 30, 1908721	85
1431	Graphene-ferrites interaction for enhanced EMI shielding effectiveness of hybrid polymer composites. 2020 , 7, 016304	9
1430	Chemistry of two-dimensional MXene nanosheets in theranostic nanomedicine. 2020 , 31, 937-946	16
1429	Multilayer WPU conductive composites with controllable electro-magnetic gradient for absorption-dominated electromagnetic interference shielding. 2020 , 129, 105692	81
1428	Micromechanical response of two-dimensional transition metal carbonitride (MXene) reinforced epoxy composites. 2020 , 182, 107603	32
1427	Porous MXenes: Synthesis, structures, and applications. 2020 , 30, 100803	115
1426	Pristine Titanium Carbide MXene Films with Environmentally Stable Conductivity and Superior Mechanical Strength. 2020 , 30, 1906996	70
1425	Fabrication of C-doped SiC nanocomposites with tailoring dielectric properties for the enhanced electromagnetic wave absorption. 2020 , 157, 788-795	30
1424	Flexible, Robust, and Multifunctional Electromagnetic Interference Shielding Film with Alternating Cellulose Nanofiber and MXene Layers. 2020 , 12, 4895-4905	183
1423	Recent developments in emerging two-dimensional materials and their applications. 2020 , 8, 387-440	227

1422	Two-dimensional Ti3C2Tx/poly(vinylidene fluoride) metacomposites with weakly negative permittivity. 2020 , 41, 1820-1829	2
1421	Lightweight and flexible 3D graphene microtubes membrane for high-efficiency electromagnetic-interference shielding. 2020 , 387, 124025	48
1420	Flexible and robust silver coated non-woven fabric reinforced waterborne polyurethane films for ultra-efficient electromagnetic shielding. 2020 , 184, 107745	39
1419	Fabrication of novel CuFeO/MXene hierarchical heterostructures for enhanced photocatalytic degradation of sulfonamides under visible light. 2020 , 387, 122021	67
1418	Strong and Heat-Resistant SiC-Coated Carbonized Natural Loofah Sponge for Electromagnetic Interference Shielding. 2020 , 8, 435-444	27
1417	Facile Preparation of Electromagnetic Interference Shielding Materials Enabled by Constructing Interconnected Network of Multi-walled Carbon Nanotubes in a Miscible Polymeric Blend. 2020 , 38, 593-598	4
1416	Two-Dimensional Transition Metal Carbides and Nitrides (MXenes): Synthesis, Properties, and Electrochemical Energy Storage Applications. 2020 , 3, 29-55	148
1415	Dynamical Control over Terahertz Electromagnetic Interference Shielding with 2D TiCT MXene by Ultrafast Optical Pulses. 2020 , 20, 636-643	43
1414	Multifunctional Aramid Nanofiber/Carbon Nanotube Hybrid Aerogel Films. 2020, 14, 688-697	142
1413	Compressible Metalized Soft Magnetic Sponges with Tailorable Electrical and Magnetic Properties. 2020 , 6, 316-325	5
1412	Remarkable differences in the voltammetric response towards hydrogen peroxide, oxygen and Ru(NH) of electrode interfaces modified with HF or LiF-HCl etched TiCT MXene. 2019 , 187, 52	10
1411	Investigation of adjacent spacing dependent microwave absorption properties of lamellar structural Ti3C2Tx MXenes. 2020 , 31, 808-815	29
1410	Structural, mechanical and electronic properties of two-dimensional chlorine-terminated transition metal carbides and nitrides. 2020 , 32, 135302	6
1409	Reversible Crumpling of 2D Titanium Carbide (MXene) Nanocoatings for Stretchable Electromagnetic Shielding and Wearable Wireless Communication. 2020 , 30, 1907451	91
1408	Synthesis of MoVAlC MAX Phase and Two-Dimensional MoVC MXene with Five Atomic Layers of Transition Metals. 2020 , 14, 204-217	198
1407	Two-dimensional hybrid nanomaterials derived from MXenes (Ti3C2Tx) as advanced energy storage and conversion applications. 2020 , 31, 947-952	18
1406	Giant tunability of interlayer friction in graphite via ion intercalation. 2020 , 35, 100616	4
1405	Superhydrophobic and multi-responsive fabric composite with excellent electro-photo-thermal effect and electromagnetic interference shielding performance. 2020 , 391, 123537	46

1404	Ultrastrong and Highly Conductive MXene-Based Films for High-Performance Electromagnetic Interference Shielding. 2020 , 6, 1901094	59
1403	Controllable fabrication of elastomeric and porous graphene films with superior foldable behavior and excellent electromagnetic interference shielding performance. 2020 , 158, 728-737	29
1402	Electrospun generation of Ti3C2Tx MXene@graphene oxide hybrid aerogel microspheres for tunable high-performance microwave absorption. 2020 , 391, 123512	91
1401	Substantially improving mechanical property of double percolated poly(phenylene sulfide)/poly(arylenesulfide sulfone)/graphene nanoplates composites with superior electromagnetic interference shielding performance. 2020 , 137, 48709	3
1400	High-Efficiency Thermoelectric Power Generation Enabled by Homogeneous Incorporation of MXene in (Bi,Sb)2Te3 Matrix. 2020 , 10, 1902986	53
1399	MXetronics: MXene-Enabled Electronic and Photonic Devices. 2020 , 2, 55-70	78
1398	Nanoscale zero-valent iron intercalated 2D titanium carbides for removal of Cr(VI) in aqueous solution and the mechanistic aspect. 2020 , 388, 121761	30
1397	Fast Treatment of MXene Films with Isocyanate to Give Enhanced Stability. 2020 , 6, 64-67	13
1396	Super strong 2D titanium carbide MXene-based materials: a theoretical prediction. 2020 , 32, 11LT01	8
1395	Enhanced electrical and electromagnetic interference shielding properties of uniformly dispersed carbon nanotubes filled composite films via solvent-free process using ring-opening polymerization of cyclic butylene terephthalate. 2020 , 186, 122030	15
1394	Recent advances in 2D MXenes for enhanced cation intercalation in energy harvesting Applications: A review. 2020 , 392, 123678	73
1393	MXenesA new class of 2D layered materials: Synthesis, properties, applications as supercapacitor electrode and beyond. 2020 , 18, 100509	44
1392	Thermal-triggered insulating fireproof layers: A novel fire-extinguishing MXene composites coating. 2020 , 391, 123621	65
1391	ReviewIIwo-Dimensional Titanium Carbide MXenes and Their Emerging Applications as Electrochemical Sensors. 2020 , 167, 037514	30
1390	Two-Dimensional Titanium Carbides (TiCT) Functionalized by Poly(m-phenylenediamine) for Efficient Adsorption and Reduction of Hexavalent Chromium. 2019 , 17,	21
1389	Mulberry-like polyaniline-based flexible composite fabrics with effective electromagnetic shielding capability. 2020 , 188, 107991	44
1388	The tunable electric and magnetic properties of 2D MXenes and their potential applications. 2020 , 1, 3104-3121	16
1387	Anisotropic Borontarbon Hetero-Nanosheets for Ultrahigh Energy Density Supercapacitors. 2020 , 132, 24008-24017	8

1386	Terahertz Polarizers Based on 2D Ti3C2Tz MXene: Spin Cast from Aqueous Suspensions. 2020 , 1, 2000084	4
1385	Microwave Materials for Defense and Aerospace Applications. 2020 , 165-213	2
1384	Oxygen vacancies-enriched sub-7 nm cross-linked Bi2.88Fe5O12- nanoparticles anchored MXene for electrochemical energy storage with high volumetric performances. 2020 , 78, 105360	15
1383	Preparation of Flexible Carbon Fiber Fabrics with Adjustable Surface Wettability for High-Efficiency Electromagnetic Interference Shielding. 2020 , 12, 49030-49041	24
1382	Polyimide-Based Foams: Fabrication and Multifunctional Applications. 2020 , 12, 48246-48258	24
1381	A novel electrochemical sensor based on TiO2IIi3C2TX/CTAB/chitosan composite for the detection of nitrite. 2020 , 359, 136938	19
1380	Flexible Ti3C2Tx MXene/ink human wearable strain sensors with high sensitivity and a wide sensing range. 2020 , 315, 112304	12
1379	MXenes-Based Bioanalytical Sensors: Design, Characterization, and Applications. 2020 , 20,	28
1378	MOF Induces 2D GO to Assemble into 3D Accordion-Like Composites for Tunable and Optimized Microwave Absorption Performance. 2020 , 16, e2003905	46
1377	Multifunctional sponges with flexible motion sensing and outstanding thermal insulation for superior electromagnetic interference shielding. 2020 , 139, 106143	65
1376	Tailoring microwave electromagnetic responses in Ti3C2Tx MXene with CoNi-alloy nanoparticles decoration via mildd hydrothermal method. 2020 , 19, 103516	6
1375	Exfoliation and Defect Control of Two-Dimensional Few-Layer MXene TiCT for Electromagnetic Interference Shielding Coatings. 2020 , 12, 49737-49747	33
1374	Strong sequentially bridged MXene sheets. 2020 , 117, 27154-27161	50
1373	In-situ SEM compression of accordion-like multilayer MXenes. 2020 , 41, 101054	1
1372	Excellent electromagnetic wave absorption of MOF/SiBCN nanomaterials at high temperature. 2020 ,	2
1371	Double transition-metal MXenes: Atomistic design of two-dimensional carbides and nitrides. 2020 , 45, 850-861	37
1370	Ultrathin Densified Carbon Nanotube Film with "Metal-like" Conductivity, Superior Mechanical Strength, and Ultrahigh Electromagnetic Interference Shielding Effectiveness. 2020 , 14, 14134-14145	59
1369	Faradaic Electrodes Open a New Era for Capacitive Deionization. 2020 , 7, 2002213	28

1368	MXenes as co-catalysts for the solar-driven photocatalytic reduction of CO2. 2020 , 8, 16258-16281	34
1367	Accelerating 2D MXene catalyst discovery for the hydrogen evolution reaction by computer-driven workflow and an ensemble learning strategy. 2020 , 8, 23488-23497	28
1366	Theoretical Prediction and Synthesis of a Family of Atomic Laminate Metal Borides with In-Plane Chemical Ordering. 2020 , 142, 18583-18591	15
1365	Graphene Films for Flexible EMI Shielding Materials with Cross-Linked Structure via Reaction with Diamine Monomers. 2020 , 15, 2050157	1
1364	Recent Advances in the Electromagnetic Interference Shielding of 2D Materials beyond Graphene. 2020 , 2, 3048-3071	22
1363	Enhancing the conductivity, stability and flexibility of Ti3C2Tx MXenes by regulating etching conditions. 2020 , 533, 147475	4
1362	Steam-chest molding of polypropylene/carbon black composite foams as broadband EMI shields with high absorptivity. 2020 , 22, 100508	17
1361	Solution processed fabrication of silver nanowire-MXene@PEDOT: PSS flexible transparent electrodes for flexible organic light-emitting diodes. 2020 , 139, 106088	20
1360	Novel ceramic-based microwave absorbents derived from gangue. 2020 , 8, 14238-14245	3
1359	Flexible freestanding all-MXene hybrid films with enhanced capacitive performance for powering a flex sensor. 2020 , 8, 16649-16660	20
1358	Exceptional electromagnetic shielding efficiency of silver coated carbon fiber fabrics via a roll-to-roll spray coating process. 2020 , 8, 11070-11078	7
1357	Dielectric Responses in Multilayer Cf/Si3N4 as High-Temperature Microwave-Absorbing Materials. 2020 ,	
1356	TiCT MXene-Based Light-Responsive Hydrogel Composite for Bendable Bilayer Photoactuator. 2020 , 10,	5
1355	One MAX phase, different MXenes: A guideline to understand the crucial role of etching conditions on Ti3C2Tx surface chemistry. 2020 , 530, 147209	56
1354	Computational Prediction of Boron-Based MAX Phases and MXene Derivatives. 2020 , 32, 6947-6957	34
1353	Sonochemically activated synthesis of gradationally complexed Ag/TEMPO-oxidized cellulose for multifunctional textiles with high electrical conductivity, super-hydrophobicity, and efficient EMI shielding. 2020 , 8, 13990-13998	14
1352	Preparation and Properties of Ferrocene-Based Polyfuran/Carbon Material Composites for Electromagnetic Interference Shielding. 2020 , 49, 5647-5656	2
1351	Ion sieving by a two-dimensional TiCT alginate lamellar membrane with stable interlayer spacing. 2020 , 11, 3540	63

1350	CVD Growth of Porous Graphene Foam in Film Form. 2020 , 3, 487-497	20
1349	Highly Efficient MXene-Coated Flame Retardant Cotton Fabric for Electromagnetic Interference Shielding. 2020 , 59, 14025-14036	34
1348	Novel MXene-based hierarchically porous composite as superior electrodes for Li-ion storage. 2020 , 530, 147214	13
1347	Synthesis, characterization and electromagnetic absorbing performance of multi-step petaloid morphology VO2(M). 2020 , 46, 25493-25502	2
1346	A Comprehensive Review on the Synthesis and Energy Applications of Nano-structured Metal Nitrides. 2020 , 7,	16
1345	Electromagnetic microwave absorption theory and recent achievements in microwave absorbers. 2020 , 168, 606-623	148
1344	Construction of natural fiber/polyaniline core-shell heterostructures with tunable and excellent electromagnetic shielding capability via a facile secondary doping strategy. 2020 , 137, 105994	32
1343	Influence of the filler dimensionality on the electrical, mechanical and electromagnetic shielding properties of isoprene rubber-based flexible conductive composites. 2020 , 21, 100417	21
1342	Simultaneously Improved Thermal and Dielectric Performance of Epoxy Composites Containing TiCT Platelet Fillers. 2020 , 12,	8
1341	A comprehensive review on mechanical, electromagnetic radiation shielding, and thermal conductivity of fibers/inorganic fillers reinforced hybrid polymer composites. 2020 , 41, 3940-3965	56
1340	Effect of TiCT MXenes etched at elevated temperatures using concentrated acid on binder-free supercapacitors 2020 , 10, 41837-41845	8
1339	Research progress of MXenes-based wearable pressure sensors. 2020 , 8, 110702	18
1338	Deposited structure design of epoxy composites with excellent electromagnetic interference shielding performance and balanced mechanical properties. 2020 , 8, 16930-16939	5
1337	Recent advances of magnetism-based microwave absorbing composites: an insight from perspective of typical morphologies. 2020 , 1	3
1336	Deformation of Bioinspired MXene-Based Polymer Composites with Brick and Mortar Structures: A Computational Analysis. 2020 , 13,	5
1335	A kind of tunable Co/C microwave absorber derived from Co-ZIF-9 for lightweight and efficient microwave absorber. 2020 , 2, 100039	1
1334	Ti3C2Tx MXene Quantum Dots with Enhanced Stability for Ultrafast Photonics. 2020 , 3, 11850-11860	15
1333	Collagen Fiber/Fe3O4/Polypyrrole Nanocomposites for Absorption-Type Electromagnetic Interference Shielding and Radar Stealth. 2020 , 3, 11906-11915	9

1332	Versatile Biomass Carbon Foams for Fast OilWater Separation, Flexible Pressure-Strain Sensors, and Electromagnetic Interference Shielding. 2020 , 59, 20740-20748	10
1331	Fabrication of two-dimensional Ti3C2Tx MXenes by ball milling pretreatment and mild etchant and their microstructure. 2020 , 46, 28949-28954	6
1330	Generation of Monodisperse Submicron Water-in-Diesel Emulsions via a Hydrophobic MXene-Modified Ceramic Membrane. 2020 , 59, 20349-20358	4
1329	Electronic Structure Sensitivity to Surface Disorder and Nanometer-Scale Impurity of 2D Titanium Carbide MXene Sheets as Revealed by Electron Energy-Loss Spectroscopy. 2020 , 124, 27071-27081	1
1328	Stretchable Liquid Metal-Based Conductive Textile for Electromagnetic Interference Shielding. 2020 , 12, 53230-53238	33
1327	Annealed Ti3C2Tz MXene Films for Oxidation-Resistant Functional Coatings. 2020 , 3, 10578-10585	11
1326	Sustainable wood-based composites for microwave absorption and electromagnetic interference shielding. 2020 , 8, 24267-24283	58
1325	Robust mechanical tunability of 2D transition metal carbides via surface termination engineering: Molecular dynamics simulation. 2020 , 532, 147380	11
1324	Scalable Manufacturing of MXene Films: Moving toward Industrialization. 2020 , 3, 335-336	7
1323	Synergistic engineering of dielectric and magnetic losses in M-Co/RGO nanocomposites for use in high-performance microwave absorption. 2020 , 4, 3013-3021	8
1322	Dynamic response study of TiC-MXene films to shockwave and impact forces 2020 , 10, 29147-29155	6
1321	In Situ Electrochemical Synthesis of MXenes without Acid/Alkali Usage in/for an Aqueous Zinc Ion Battery. 2020 , 10, 2001791	56
1320	Metal mesh-based transparent electrodes as high-performance EMI shields. 2020 , 43, 1	3
1319	Polymer-Assisted Fabrication of Silver Nanowire Cellular Monoliths: Toward Hydrophobic and Ultraflexible High-Performance Electromagnetic Interference Shielding Materials. 2020 , 12, 38584-38592	19
1318	Emerging 2D MXenes for supercapacitors: status, challenges and prospects. 2020 , 49, 6666-6693	168
1317	Harnessing the unique features of MXenes for sulfur cathodes. 2020 , 2, 162-175	12
1316	Enhanced photocatalytic degradation of perfluorooctanoic acid by TiC MXene-derived heterojunction photocatalyst: Application of intercalation strategy in DESs. 2020 , 746, 141009	10
1315	Anomalous absorption of electromagnetic waves by 2D transition metal carbonitride TiCNT (MXene). <i>Science</i> , 2020 , 369, 446-450	3 362

1314	Electrical conductivity and electromagnetic interference shielding effectiveness of nano-structured carbon assisted poly(methyl methacrylate) nanocomposites. 2020 , 60, 2414-2427	8
1313	Molten Salt-Directed Catalytic Synthesis of 2D Layered Transition-Metal Nitrides for Efficient Hydrogen Evolution. 2020 , 6, 2382-2394	67
1312	Dual channel carrier transfer based on Ti3C2Tx improves carrier utilization of Z-scheme Ag3PO4/AgBr heterojunction photocatalyst. 2020 , 253, 117486	8
1311	CO-Oxidized TiCT-MXenes Components for Lithium-Sulfur Batteries: Suppressing the Shuttle Phenomenon through Physical and Chemical Adsorption. 2020 , 14, 9744-9754	44
1310	MXene derivatives for energy storage applications. 2020 , 4, 4988-5004	21
1309	Laser writing of the restacked titanium carbide MXene for high performance supercapacitors. 2020 , 32, 418-424	17
1308	Scalable, Highly Conductive, and Micropatternable MXene Films for Enhanced Electromagnetic Interference Shielding. 2020 , 3, 546-557	62
1307	Graphene aided gelation of MXene with oxidation protected surface for supercapacitor electrodes with excellent gravimetric performance. 2020 , 169, 225-234	28
1306	Core-rim structured carbide MXene/SiO2 nanoplates as an ultrathin microwave absorber. 2020 , 169, 214-224	23
1305	Vertically Aligned Nanopatterns of Amine-Functionalized Ti3C2 MXene via Soft Lithography. 2020 , 7, 2000424	10
1304	Effective usage of 2D MXene nanosheets as solid lubricant Influence of contact pressure and relative humidity. 2020 , 531, 147311	19
1303	Properties and potential applications of two-dimensional AlN. 2020 , 176, 109231	12
1302	Enhanced electromagnetic interference shielding and mechanical properties of segregated polymer/carbon nanotube composite via selective microwave sintering. 2020 , 199, 108355	18
1301	Highly Efficient Photothermal Conversion of TiCT/Ionic Liquid Gel Pen Ink for Smoothly Writing Ultrasensitive, Wide-Range Detecting, and Flexible Thermal Sensors. 2020 , 12, 37637-37646	18
1300	Electroless deposition of silver nanoparticles on cellulose nanofibrils for electromagnetic interference shielding films. 2020 , 250, 116915	20
1299	Molybdenum Disulfide-Wrapped Carbon Nanotube-Reduced Graphene Oxide (CNT/MoS-rGO) Nanohybrids for Excellent and Fast Removal of Electromagnetic Interference Pollution. 2020 , 12, 40828-4083	7 ¹⁸
1298	Lightweight and Hydrophobic Three-Dimensional Wood-Derived Anisotropic Magnetic Porous Carbon for Highly Efficient Electromagnetic Interference Shielding. 2020 , 12, 40802-40814	45
1297	Rising from the horizon: three-dimensional functional architectures assembled with MXene nanosheets. 2020 , 8, 18538-18559	37

1296	Synthesis and recent applications of MXenes with Mo, V or Nb transition metals: a review. 2020 , 2, 176-193	8
1295	All-Solution-Processed Ultrahigh Broadband and Wide-Angle Perfect Absorber Based on Mxene L old Nanoparticles. 2020 , 8, 2000447	11
1294	Enhancement of microwave absorption bandwidth of MXene nanocomposites through macroscopic design. 2020 , 7, 200456	7
1293	Fabrication strategies of polymer-based electromagnetic interference shielding materials. 2020 , 3, 149-159	9
1292	2D Carbide MXene under postetch low-temperature annealing for highperformance supercapacitor electrode. 2020 , 359, 136960	14
1291	The microwave electromagnetic and absorption properties of Fe-Si-B-P-C glassy powders under chemical corrosion. 2020 , 549, 120352	
1290	2D Transition Metal Carbides (MXene) for Electrochemical Sensing: A Review. 2020 , 1-17	24
1289	Surface Oxidation Modulates the Interfacial and Lateral Thermal Migration of MXene (TiCT) Flakes. 2020 , 11, 9521-9527	5
1288	Synthesis and Properties of MXenes. 2020 , 5-93	1
1287	Other Applications. 2020 , 303-404	
•	Other Applications. 2020, 303-404 Carbon foams: 3D porous carbon materials holding immense potential. 2020, 8, 23699-23723	27
•		27
1286	Carbon foams: 3D porous carbon materials holding immense potential. 2020 , 8, 23699-23723 Lightweight and Flexible MXene/rGO Thermally Expanded Foams for High-Efficiency	27
1286 1285	Carbon foams: 3D porous carbon materials holding immense potential. 2020, 8, 23699-23723 Lightweight and Flexible MXene/rGO Thermally Expanded Foams for High-Efficiency Electromagnetic Interference Shielding. 2020, One-Step Synthesis of Modified Ti3C2 MXene-Supported Amorphous Molybdenum Sulfide Electrocatalysts by a Facile Gamma Radiation Strategy for Efficient Hydrogen Evolution Reaction.	
1286 1285 1284	Carbon foams: 3D porous carbon materials holding immense potential. 2020, 8, 23699-23723 Lightweight and Flexible MXene/rGO Thermally Expanded Foams for High-Efficiency Electromagnetic Interference Shielding. 2020, One-Step Synthesis of Modified Ti3C2 MXene-Supported Amorphous Molybdenum Sulfide Electrocatalysts by a Facile Gamma Radiation Strategy for Efficient Hydrogen Evolution Reaction. 2020, 3, 10882-10891 Bulk and Surface Chemistry of the Niobium MAX and MXene Phases from Multinuclear Solid-State	6
1286 1285 1284 1283	Carbon foams: 3D porous carbon materials holding immense potential. 2020, 8, 23699-23723 Lightweight and Flexible MXene/rGO Thermally Expanded Foams for High-Efficiency Electromagnetic Interference Shielding. 2020, One-Step Synthesis of Modified Ti3C2 MXene-Supported Amorphous Molybdenum Sulfide Electrocatalysts by a Facile Gamma Radiation Strategy for Efficient Hydrogen Evolution Reaction. 2020, 3, 10882-10891 Bulk and Surface Chemistry of the Niobium MAX and MXene Phases from Multinuclear Solid-State NMR Spectroscopy. 2020, 142, 18924-18935 Electromagnetic Interference Shield of Highly Thermal-Conducting, Light-Weight, and Flexible	6
1286 1285 1284 1283	Carbon foams: 3D porous carbon materials holding immense potential. 2020, 8, 23699-23723 Lightweight and Flexible MXene/rGO Thermally Expanded Foams for High-Efficiency Electromagnetic Interference Shielding. 2020, One-Step Synthesis of Modified Ti3C2 MXene-Supported Amorphous Molybdenum Sulfide Electrocatalysts by a Facile Gamma Radiation Strategy for Efficient Hydrogen Evolution Reaction. 2020, 3, 10882-10891 Bulk and Surface Chemistry of the Niobium MAX and MXene Phases from Multinuclear Solid-State NMR Spectroscopy. 2020, 142, 18924-18935 Electromagnetic Interference Shield of Highly Thermal-Conducting, Light-Weight, and Flexible Electrospun Nylon 66 Nanofiber-Silver Multi-Layer Film. 2020, 12, Mussel Inspired Highly Aligned TiCT MXene Film with Synergistic Enhancement of Mechanical	6 15 9

1278	State of the art recent progress in two dimensional MXenes based gas sensors and biosensors: A comprehensive review. 2020 , 424, 213514	79
1277	In-situ growth of wafer-like Ti3C2/Carbon nanoparticle hybrids with excellent tunable electromagnetic absorption performance. 2020 , 202, 108408	15
1276	Embedding two-dimensional graphene array in ceramic matrix. 2020 , 6,	22
1275	Multifunctional Graphene Composites for Electromagnetic Shielding and Thermal Management at Elevated Temperatures. 2020 , 6, 2000520	33
1274	Dielectric and microwave absorption properties of resin-matrix composite coating filled with multi-wall carbon nanotubes and Ti3SiC2 particles. 2020 , 31, 15852-15858	2
1273	Distinct superconducting properties and hydrostatic pressure effects in 2D Hand EMo2C crystal sheets. 2020 , 12,	4
1272	A Stretchable Highoutput Triboelectric Nanogenerator Improved by MXene Liquid Electrode with High Electronegativity. 2020 , 30, 2004181	72
1271	Rapid Gas-Engineering to the Manufacture of Graphene-Like Mesoporous Carbon Nanosheets with a Large Aspect Ratio. 2020 , 12, 47792-47801	4
1270	Lightweight Three-Dimensional Cellular MXene Film for Superior Energy Storage and Electromagnetic Interference Shielding. 2020 , 3, 8171-8178	24
1269	Probing Molecular Interactions at MXene©rganic Heterointerfaces. 2020 , 32, 7884-7894	10
1268	Heterostructure Composites of CoS Nanoparticles Decorated on TiCT Nanosheets and Their Enhanced Electromagnetic Wave Absorption Performance. 2020 , 10,	6
1267	Effect of Surface Structure and Composition on the Electromagnetic Properties of Ti3C2Tx MXenes for Highly Efficient Electromagnetic Wave Absorption. 2020 , 124, 19666-19674	14
1266	Investigation of the pore-size dependent microwave absorption properties of honeycomb SnO2. 2020 , 1	1
1265	Recent Advances in Functional 2D MXene-Based Nanostructures for Next-Generation Devices. 2020 , 30, 2005223	78
1264	Retracted: Emerging 2D MXene/Organic Heterostructures for Future Nanodevices. 2020 , 30, 2005238	16
1263	Anisotropic Boron-Carbon Hetero-Nanosheets for Ultrahigh Energy Density Supercapacitors. 2020 , 59, 23800-23809	31
1262	Anisotropic and high thermal conductivity of epoxy composites containing multilayer Ti3C2Tx MXene nanoflakes. 2020 , 55, 16533-16543	9
1261	Hierarchical Carbon Fiber@MXene@MoS2 Core-sheath Synergistic Microstructure for Tunable and Efficient Microwave Absorption. 2020 , 30, 2002595	130

1260	Galvanic Replacement Reaction Involving Core-Shell Magnetic Chains and Orientation-Tunable Microwave Absorption Properties. 2020 , 16, e2003502	129
1259	All-Carbon Conductors for Electronic and Electrical Wiring Applications. 2020 , 7,	16
1258	Hybrid structured CoNiS/NiS nanowires with multifunctional performance for hybrid capacitor electrodes and overall water splitting 2020 , 10, 33428-33435	4
1257	Interface Chemistry on MXene-Based Materials for Enhanced Energy Storage and Conversion Performance. 2020 , 30, 2005190	51
1256	Simulation and Optimization of Electromagnetic Absorption of Polycarbonate/CNT Composites Using Machine Learning. 2020 , 11,	5
1255	Flexible MXene/Silver Nanowire-Based Transparent Conductive Film with Electromagnetic Interference Shielding and Electro-Photo-Thermal Performance. 2020 , 12, 40859-40869	117
1254	Metal carbide/Ni hybrids for high-performance electromagnetic absorption and absorption-based electromagnetic interference shielding. 2020 , 7, 4832-4844	13
1253	Vertically aligned reduced graphene oxide/Ti3C2Tx MXene hybrid hydrogel for highly efficient solar steam generation. 2020 , 13, 3048-3056	59
1252	Metal and Metal Matrix 2D Nanomaterial Composites: Attractive Alternatives for EMI Shielding Applications. 2020 , 347-373	1
1251	Large-Area 2D-MXene Nanosheet Assemblies Using Langmuir-Schaefer Technique: Wrinkle formation. 2020 , 12, 42294-42301	8
1250	Deep-Learning-Based Deconvolution of Mechanical Stimuli with TiCT MXene Electromagnetic Shield Architecture Dual-Mode Wireless Signal Variation Mechanism. 2020 , 14, 11962-11972	10
1249	2D nanosheets and composites for EMI shielding analysis. 2020 , 10, 21550	4
1248	Broadband Visible Nonlinear Absorption and Ultrafast Dynamics of the TiC Nanosheet. 2020, 10,	7
1247	The compositional dependence of structural stability and resulting properties for Mn+1CnT2 (M = Sc, Ti, V; T = O, OH, F, Cl, Br and I; n = 1, 2): first-principle investigations. 2020 , 9, 14979-14989	0
1246	Recent Advances in 2D MXene Integrated Smart-Textile Interfaces for Multifunctional Applications. 2020 , 32, 10296-10320	30
1245	Nonlinear Optical Response of Reflective MXene Molybdenum Carbide Films as Saturable Absorbers. 2020 , 10,	3
1244	Electrically Conductive MXene-Coated Glass Fibers for Damage Monitoring in Fiber-Reinforced Composites. 2020 , 6, 64	О
1243	Binder-Free Ti3C2Tx MXene Doughs with High Redispersibility. 2020 , 2, 1598-1605	13

1242	Interfacial metallization in segregated poly (lactic acid)/poly (p-caprolactone)/multi-walled carbon nanotubes composites for enhancing electromagnetic interference shielding. 2020 , 139, 106116	32
1241	MXenes and MXenes-based Composites. 2020 ,	2
1240	Ti3C2Tx MXene for wearable energy devices: Supercapacitors and triboelectric nanogenerators. 2020 , 8, 110701	15
1239	Recent developments of stamped planar micro-supercapacitors: Materials, fabrication and perspectives. 2020 ,	2
1238	Using a Self-Assembled Two-Dimensional MXene-Based Catalyst (2D-Ni@TiC) to Enhance Hydrogen Storage Properties of MgH. 2020 , 12, 50333-50343	29
1237	Single-atom Ru anchored in nitrogen-doped MXene (Ti3C2Tx) as an efficient catalyst for the hydrogen evolution reaction at all pH values. 2020 , 8, 24710-24717	42
1236	Lightweight and Flexible Fe3O4/MXene/Cellulose Nanofiber Film with Gradient and Sandwich Structure for Superior EMI Shielding Properties. 2020 ,	
1235	Integrated multifunctional macrostructures for electromagnetic wave absorption and shielding. 2020 , 8, 24368-24387	78
1234	A conductive composite foam based on poly(styrene-butadiene-styrene)/carbon nanotube (SBS/CNT) for electromagnetic interference shielding. 2020 ,	
1233	2D Transition Metal Carbides (MXenes): Applications as an Electrically Conducting Material. 2020 , 32, e2002159	79
1232	Strain and electric field tuning of semi-metallic character WCrCO MXenes with dual narrow band gap. 2020 , 32, 355504	21
1231	Lightweight and robust rGO/sugarcane derived hybrid carbon foams with outstanding EMI shielding performance. 2020 , 52, 119-126	197
1230	Optical, stability and energy performance of water-based MXene nanofluids in hybrid PV/thermal solar systems. 2020 , 204, 32-47	46
1229	2D foaming of ultrathin MXene sheets with highly conductive silver nanowires for wearable electromagnetic interference shielding applications owing to multiple reflections within created free space. 2020 , 4, 035002	8
1228	Conductive Wood for High-Performance Structural Electromagnetic Interference Shielding. 2020 , 32, 5280-5289	52
1227	A review of polyvinylidene fluoride (PVDF), polyurethane (PU), and polyaniline (PANI) composites-based materials for electromagnetic interference shielding. 2020 , 089270572092512	9
1226	Enhanced Antistatic and Self-Heatable Wearable Coating with Self-Tiered Structure Caused by Amphiphilic MXene in Waterborne Polymer. 2020 , 36, 6580-6588	16
1225	Record-High Transparent Electromagnetic Interference Shielding Achieved by Simultaneous Microwave Fabry-PEot Interference and Optical Antireflection. 2020 , 12, 26659-26669	17

1224	Metal-Level Robust, Folding Endurance, and Highly Temperature-Stable MXene-Based Film with Engineered Aramid Nanofiber for Extreme-Condition Electromagnetic Interference Shielding Applications. 2020 , 12, 26485-26495	56
1223	Recent advances in structural engineering of MXene electrocatalysts. 2020 , 8, 10604-10624	94
1222	Highly Conductive MXene Film Actuator Based on Moisture Gradients. 2020, 59, 14029-14033	40
1221	i-MXenes for Energy Storage and Catalysis. 2020 , 30, 2000894	60
1220	MXene-Based Fibers, Yarns, and Fabrics for Wearable Energy Storage Devices. 2020 , 30, 2000739	68
1219	Interface-Amorphized TiC@Si/SiO@TiO Anodes with Sandwiched Structures and Stable Lithium Storage. 2020 , 12, 24796-24805	29
1218	2D Titanium Carbide (Ti3C2Tx) in Accommodating Intraocular Lens Design. 2020 , 30, 2000841	9
1217	Highly Conductive MXene Film Actuator Based on Moisture Gradients. 2020 , 132, 14133-14137	8
1216	Insight into Adsorption Performance and Mechanism on Efficient Removal of Methylene Blue by Accordion-like VCT MXene. 2020 , 11, 4253-4260	27
1215	Interfacial structure design of MXene-based nanomaterials for electrochemical energy storage and conversion. 2020 , 2, 1057-1076	72
1214	MXene/Activated-Carbon Hybrid Capacitive Deionization for Permselective Ion Removal at Low and High Salinity. 2020 , 12, 26013-26025	41
1213	Continuous flow vortex fluidic-mediated exfoliation and fragmentation of two-dimensional MXene. 2020 , 7, 192255	4
1212	Ti3C2 MXene Photoexciting Nanoflakes for Localization of Supercontinuum Lasing of Aqueous-Phase Quantum Dots. 2020 , 124, 13385-13392	
1211	Graphene Epoxy-Based Composites as Efficient Electromagnetic Absorbers in the Extremely High-Frequency Band. 2020 , 12, 28635-28644	27
1210	Dual Interfacial Modification Engineering with 2D MXene Quantum Dots and Copper Sulphide Nanocrystals Enabled High-Performance Perovskite Solar Cells. 2020 , 30, 2003295	53
1209	Sensitivity Analysis of Surface Plasmon Resonance Biosensor Based on Heterostructure of 2D BlueP/MoS2 and MXene. 2020 , 103-129	7
1208	Strong and Flexible Carbon Fiber Fabric Reinforced Thermoplastic Polyurethane Composites for High-Performance EMI Shielding Applications. 2020 , 305, 1900829	14
1207	Recyclable, self-healing, absorption-dominated and highly effective electromagnetic shielding elastomers based on bridged micro capacitance structures. 2020 , 166, 56-63	12

1206	Layer-by-Layer Assembly of Two-Dimensional Materials: Meticulous Control on the Nanoscale. 2020 , 2, 1148-1165	48
1205	Well-aligned MXene/chitosan films with humidity response for high-performance electromagnetic interference shielding. 2020 , 243, 116467	49
1204	Ultra-thin and highly flexible cellulose nanofiber/silver nanowire conductive paper for effective electromagnetic interference shielding. 2020 , 135, 105960	77
1203	A Wearable and Highly Sensitive Textile-based Pressure Sensor with Ti3C2Tx Nanosheets. 2020 , 311, 112081	13
1202	Multifunctional MXene-Based Fireproof Electromagnetic Shielding Films with Exceptional Anisotropic Heat Dissipation Capability and Joule Heating Performance. 2020 , 12, 27350-27360	71
1201	Inverse-opal-based carbon composite monoliths for microwave absorption applications. 2020 , 166, 328-338	18
1200	Mechanically robust ANF/MXene composite films with tunable electromagnetic interference shielding performance. 2020 , 135, 105927	34
1199	Controlling distribution of multi-walled carbon nanotube on surface area of Poly(\bar{\pu}-caprolactone) to form sandwiched structure for high-efficiency electromagnetic interference shielding. 2020 , 196, 108121	29
1198	Physical properties of 2D MXenes: from a theoretical perspective. 2020 , 3, 032006	15
1197	3D macroscopic graphene oxide/MXene architectures for multifunctional water purification. 2020 , 167, 285-295	59
1196	Synergistic Effect of Surface-Terminated Oxygen Vacancy and Single-Atom Catalysts on Defective MXenes for Efficient Nitrogen Fixation. 2020 , 11, 5051-5058	44
1195	High-Mass-Loading Porous Ti3C2Tx Films for Ultrahigh-Rate Pseudocapacitors. 2020 , 5, 2266-2274	43
1194	Unique carbon nanofiber@ Co/C aerogel derived bacterial cellulose embedded zeolitic imidazolate frameworks for high-performance electromagnetic interference shielding. 2020 , 167, 575-584	42
1193	Green and eco-friendly chemical exfoliation of two-dimensional nanosheets in the C2H4O3-based system under the assistance of microwave irradiation. 2020 , 399, 125758	3
1192	Flexible and high-sensitivity piezoresistive sensor based on MXene composite with wrinkle structure. 2020 , 46, 23592-23598	31
1191	A large-area AgNW-modified textile with high-performance electromagnetic interference shielding. 2020 , 4,	26
1190	Air-permeable, multifunctional, dual-energy-driven MXene-decorated polymeric textile-based wearable heaters with exceptional electrothermal and photothermal conversion performance. 2020 , 8, 12526-12537	95
1189	Lightweight and Construable Magnetic Wood for Electromagnetic Interference Shielding. 2020 , 22, 2000257	6

1188	Drawing advanced electromagnetic functional composites with ultra-low filler loading. 2020 , 399, 125720	11
1187	Alternating-Current MXene Polymer Light-Emitting Diodes. 2020 , 30, 2001224	15
1186	Synthesis of N-doped carbon with embedded Fe/Fe3C particles for microwave absorption. 2020 , 55, 11970-11983	13
1185	CVD synthesis and characterization of thin Mo2C crystals. 2020 , 103, 5586-5593	12
1184	Double-layer absorbers based on hierarchical MXene composites for microwave absorption through optimal combination. 2020 , 35, 1481-1491	4
1183	Laser-Induced Direct Patterning of Free-standing TiC-MXene Films for Skin Conformal Tattoo Sensors. 2020 , 5, 2086-2095	31
1182	Single-layer copper particles integrated with a carbon nanotube film for flexible electromagnetic interference shielding. 2020 , 8, 9945-9953	10
1181	Biomimetic Nanomembranes: An Overview. 2020 , 5,	10
1180	Lightweight carbon-red mud hybrid foam toward fire-resistant and efficient shield against electromagnetic interference. 2020 , 10, 9913	7
1179	Superior Microwave Absorption Based on ZnO Capped MnO2 Nanostructures. 2020 , 7, 2000407	17
1178	MXene/metal oxides-Ag ternary nanostructures for electromagnetic interference shielding. 2020 , 399, 125791	45
1177	Injection molding of segregated carbon nanotube/polypropylene composite with enhanced electromagnetic interference shielding and mechanical performance. 2020 , 197, 108253	36
1176	MetalBrganic framework-derived C/Co/Co3O4 nanocomposites with excellent microwave absorption properties in low frequencies. 2020 , 31, 11700-11713	9
1175	Raman spectra of MXenes ZrX(X=C and N). 2020 , 31, 405708	5
1174	Graphene and MXene Nanomaterials: Toward High-Performance Electromagnetic Wave Absorption in Gigahertz Band Range. 2020 , 30, 2000475	134
1173	Tunable electrochromic behavior of titanium-based MXenes. 2020 , 12, 14204-14212	19
1172	Confining Tiny MoO Clusters into Reduced Graphene Oxide for Highly Efficient Low Frequency Microwave Absorption. 2020 , 16, e2001686	43
1171	Nb2O5/Nb2CTx composites with different morphologies through oxidation of Nb2CTx MXene for high-performance microwave absorption. 2020 , 843, 155713	25

1170	CsPbBr3Iii3C2Tx MXene QD/QD Heterojunction: Photoluminescence Quenching, Charge Transfer, and Cd Ion Sensing Application. 2020 , 3, 3305-3314	20
1169	Electromagnetic shielding property of laminated carbon fiber tape reinforced thermoplastics. 2020 , 59, 1308-1316	1
1168	Antibiotics Separation with MXene Membranes Based on Regularly Stacked High-Aspect-Ratio Nanosheets. 2020 , 132, 9838-9843	7
1167	2D MXene-TiO Core-Shell Nanosheets as a Data-Storage Medium in Memory Devices. 2020 , 32, e1907633	48
1166	Turning Trash into Treasure: Additive Free MXene Sediment Inks for Screen-Printed Micro-Supercapacitors. 2020 , 32, e2000716	117
1165	Co/C@cellulose nanofiber aerogel derived from metal-organic frameworks for highly efficient electromagnetic interference shielding. 2020 , 392, 124815	54
1164	Antibiotics Separation with MXene Membranes Based on Regularly Stacked High-Aspect-Ratio Nanosheets. 2020 , 59, 9751-9756	67
1163	Superior and highly absorbed electromagnetic interference shielding performance achieved by designing the reflection-absorption-integrated shielding compartment with conductive wall and lossy core. 2020 , 393, 124644	38
1162	Flexible MXene-Decorated Fabric with Interwoven Conductive Networks for Integrated Joule Heating, Electromagnetic Interference Shielding, and Strain Sensing Performances. 2020 , 12, 14459-14467	119
1161	Hydrophobic and Stable MXene-Polymer Pressure Sensors for Wearable Electronics. 2020 , 12, 15362-15369	82
	Hydrophobic and Stable MXene-Polymer Pressure Sensors for Wearable Electronics. 2020, 12, 15362-15369 Beyond TiCT: MXenes for Electromagnetic Interference Shielding. 2020, 14, 5008-5016	218
1160	Beyond TiCT: MXenes for Electromagnetic Interference Shielding. 2020 , 14, 5008-5016 Polymer Nanocomposites Containing Semiconductors as Advanced Materials for EMI Shielding.	218
1160 1159	Beyond TiCT: MXenes for Electromagnetic Interference Shielding. 2020, 14, 5008-5016 Polymer Nanocomposites Containing Semiconductors as Advanced Materials for EMI Shielding. 2020, 5, 4705-4718 Porous and anisotropic liquid metal composites with tunable reflection ratio for low-temperature	218
1160 1159 1158	Beyond TiCT: MXenes for Electromagnetic Interference Shielding. 2020, 14, 5008-5016 Polymer Nanocomposites Containing Semiconductors as Advanced Materials for EMI Shielding. 2020, 5, 4705-4718 Porous and anisotropic liquid metal composites with tunable reflection ratio for low-temperature electromagnetic interference shielding. 2020, 19, 100612 Unraveling and Regulating Self-Discharge Behavior of TiCT MXene-Based Supercapacitors. 2020,	218 31 22
1160 1159 1158 1157	Beyond TiCT: MXenes for Electromagnetic Interference Shielding. 2020, 14, 5008-5016 Polymer Nanocomposites Containing Semiconductors as Advanced Materials for EMI Shielding. 2020, 5, 4705-4718 Porous and anisotropic liquid metal composites with tunable reflection ratio for low-temperature electromagnetic interference shielding. 2020, 19, 100612 Unraveling and Regulating Self-Discharge Behavior of TiCT MXene-Based Supercapacitors. 2020, 14, 4916-4924 Comparative evaluation of MAX, MXene, NanoMAX, and NanoMAX-derived-MXene for microwave	218 31 22 86
1160 1159 1158 1157 1156	Beyond TiCT: MXenes for Electromagnetic Interference Shielding. 2020, 14, 5008-5016 Polymer Nanocomposites Containing Semiconductors as Advanced Materials for EMI Shielding. 2020, 5, 4705-4718 Porous and anisotropic liquid metal composites with tunable reflection ratio for low-temperature electromagnetic interference shielding. 2020, 19, 100612 Unraveling and Regulating Self-Discharge Behavior of TiCT MXene-Based Supercapacitors. 2020, 14, 4916-4924 Comparative evaluation of MAX, MXene, NanoMAX, and NanoMAX-derived-MXene for microwave absorption and Li ion battery anode applications. 2020, 12, 8466-8476 MetalBrganic framework-based Fe/C@Co3O4 coreEhell nanocomposites with outstanding	21831228629

1152	in electromagnetic shielding. 2020 , 12, 7782-7791	39
1151	Fused Deposition Modeling 3D Printing of Novel Poly(vinyl alcohol)/Graphene Nanocomposite with Enhanced Mechanical and Electromagnetic Interference Shielding Properties. 2020 , 59, 8066-8077	23
1150	MXene Composite Nanofibers for Cell Culture and Tissue Engineering 2020, 3, 2125-2131	43
1149	Multifunctional Flexible Electromagnetic Interference Shielding Silver Nanowires/Cellulose Films with Excellent Thermal Management and Joule Heating Performances. 2020 , 12, 18023-18031	137
1148	Flexible and Ultrathin Waterproof Cellular Membranes Based on High-Conjunction Metal-Wrapped Polymer Nanofibers for Electromagnetic Interference Shielding. 2020 , 32, e1908496	101
1147	In Situ Growth of MAPbBr Nanocrystals on Few-Layer MXene Nanosheets with Efficient Energy Transfer. 2020 , 16, e1905896	17
1146	Influence of Nanoparticles on Thermal and Electrical Conductivity of Composites. 2020, 12,	34
1145	Confined growth of pyridinic NMo2C sites on MXenes for hydrogen evolution. 2020 , 8, 7109-7116	78
1144	Stimuli-Responsive MXene-Based Actuators. 2020 , 30, 1909504	55
1143	Nanoscale Assembly of 2D Materials for Energy and Environmental Applications. 2020 , 32, e1907006	45
1142	Single-Layered Chiral Nanosheets with Dual Chiral Void Spaces for Highly Efficient Enantiomer Absorption. 2020 , 59, 11355-11359	18
1141	Processing Natural Wood into an Efficient and Durable Solar Steam Generation Device. 2020 , 12, 18165-18173	3 28
1140	Synthesis and Surface Chemistry of 2D TiVC Solid-Solution MXenes. 2020 , 12, 20129-20137	34
1139	Insights into the Genesis of a Selective and Coke-Resistant MXene-Based Catalyst for the Dry Reforming of Methane. 2020 , 10, 5124-5134	21
1138	Nanoplating of a SnO2 thin-film on MXene-based sponge for stable and efficient solar energy conversion. 2020 , 8, 8065-8074	10
1137	Photoluminescent Ferroelectric LiNbO3 Crystals Grown from MXenes. 2020 , 30, 1909843	6
1136	Surface termination modification on high-conductivity MXene film for energy conversion. 2020 , 829, 154634	19
1135	Delamination strategy to achieve Ti3C2Tx/CNZF composites with tunable electromagnetic absorption. 2020 , 112, 105008	16

1134	Nanocellulose-MXene Biomimetic Aerogels with Orientation-Tunable Electromagnetic Interference Shielding Performance. 2020 , 7, 2000979		125
1133	Anisotropic Electromagnetic Absorption of Aligned TiCT MXene/Gelatin Nanocomposite Aerogels. 2020 , 12, 33128-33138		55
1132	Structural and electromagnetic properties of Fe2Co-multi-walled carbon nanotubes-polystyrene based composite. 2020 , 844, 156107		8
1131	Enhanced Functional Properties of Ti3C2Tx MXenes as Negative Electrodes in Sodium-Ion Batteries by Chemical Tuning. 2020 , 4, 2000314		14
1130	Covalent surface modifications and superconductivity of two-dimensional metal carbide MXenes. <i>Science</i> , 2020 , 369, 979-983	33.3	349
1129	Hydration and swelling: a theoretical investigation on the cooperativity effect of H-bonding interactions between p-hydroxy hydroxymethyl calix[4]/[5]arene and HO by many-body interaction and density functional reactivity theory. 2020 , 26, 190		2
1128	Freezing Titanium Carbide Aqueous Dispersions for Ultra-long-term Storage. 2020 , 12, 34032-34040		55
1127	Young's Modulus and Tensile Strength of TiC MXene Nanosheets As Revealed by TEM Probing, AFM Nanomechanical Mapping, and Theoretical Calculations. 2020 , 20, 5900-5908		29
1126	Hierarchical TiCT MXene/Ni Chain/ZnO Array Hybrid Nanostructures on Cotton Fabric for Durable Self-Cleaning and Enhanced Microwave Absorption. 2020 , 14, 8634-8645		130
1125	Spatially resolved X-ray absorption spectroscopy investigation of individual cation-intercalated multi-layered Ti3C2Tx MXene particles. 2020 , 530, 147157		5
1124	Fabrication of Fiber@Microporous Organic Polymer with Amino Groups@Cu Films for Flexible and Metal-Economical Electromagnetic Interference Shielding Materials. 2020 , 36, 8745-8752		6
1123	Titanium Monocarbide. 2020 , 11-514		
1122	Controlled High-Capacity Storage of Lithium-Ions Using Void-Incorporated 3D MXene Architectures. 2020 , 7, 2000734		3
1121	Taking MXenes from the lab to commercial products. 2020 , 401, 125786		70
112 0	Highly conductive porous graphene film with excellent folding resilience for exceptional electromagnetic interference shielding. 2020 , 8, 8904-8916		26
1119	Electromagnetic wave absorbing performances with Fe2O3 nanotubes/reduced graphene oxide composite sponge. 2020 , 31, 11366-11378		4
1118	Microwave absorption and thermal conductivity properties of HO-BNNS@Fe3O4 composites. 2020 , 837, 155574		6
1117	Positioning MXenes in the Photocatalysis Landscape: Competitiveness, Challenges, and Future Perspectives. 2020 , 30, 2002528		83

1116	Temperature-difference-induced electricity during solar desalination with bilayer MXene-based monoliths. 2020 , 76, 105060	19
1115	Elementary processes governing VAlC chemical etching in HF 2020 , 10, 25266-25274	5
1114	Broadband ultrafast photonics of two-dimensional transition metal carbides (MXenes). 2020, 4, 032003	7
1113	Simultaneously improved electromagnetic interference shielding and flame retarding properties of poly (butylene succinate)/thermoplastic polyurethane blends by constructing segregated flame retardants and multi-walled carbon nanotubes double network. 2020 , 137, 106037	17
1112	Waterproof MXene-decorated wood-pulp fabrics for high-efficiency electromagnetic interference shielding and Joule heating. 2020 , 198, 108250	50
1111	Effect of sorted, homogeneous electronic grade single-walled carbon nanotube on the electromagnetic shielding effectiveness. 2020 , 167, 523-529	6
1110	Ultraflexible and Mechanically Strong Double-Layered Aramid Nanofiber-TiCT MXene/Silver Nanowire Nanocomposite Papers for High-Performance Electromagnetic Interference Shielding. 2020 , 14, 8368-8382	233
1109	Recent Progress in MXene-Based Materials: Potential High-Performance Electrocatalysts. 2020 , 30, 2003437	78
1108	Additive-Free MXene Liquid Crystals and Fibers. 2020 , 6, 254-265	73
1107	MXenes (two-dimensional metal carbides) as emerging nanomaterials for water purification: Progress, challenges and prospects. 2020 , 388, 124340	136
1106	Fabrication of MoO/MoC-Layered Hybrid Structures by Direct Thermal Oxidation of MoC. 2020 , 12, 10755-107	623
1105	Flexible PEBAX/graphene electromagnetic shielding composite films with a negative pressure effect of resistance for pressure sensors applications 2020 , 10, 1535-1543	18
1104	Tuning solidlir interface of porous graphene paper for enhanced electromagnetic interference shielding. 2020 , 55, 6598-6609	8
1103	Formation of Nanostructured Carbon from [Ni(NH)][Fe(CN)]. 2020, 10,	4
1102	Bio-inspired Fabrication of Cu-Ni Coatings onto Mercerized Flax Fabric by Electroless Plating. 2020 , 21, 324-333	6
1102	·	40
	21, 324-333	

1098	Electrical and Elastic Properties of Individual Single-Layer Nb4C3Tx MXene Flakes. 2020, 6, 1901382	53
1097	Achieving enhanced electromagnetic shielding and absorption capacity of cellulose-derived carbon aerogels via tuning the carbonization temperature. 2020 , 8, 5191-5201	23
1096	Phase-dependent electronic and magnetic properties of Ti2C monolayers. 2020 , 127, 084302	19
1095	Ultra-light MXene aerogel/wood-derived porous carbon composites with wall-like hortar/brick structures for electromagnetic interference shielding. 2020 , 65, 616-622	223
1094	CdS core-Au/MXene-based photodetectors: Positive deep-UV photoresponse and negative UVI/vis-NIR photoresponse. 2020 , 513, 145813	16
1093	Multifunctional MXene/natural rubber composite films with exceptional flexibility and durability. 2020 , 188, 107875	48
1092	Facile synthesis of CuS/MXene nanocomposites for efficient photocatalytic hydrogen generation. 2020 , 22, 2060-2066	10
1091	How Much Oxygen Can a MXene Surface Take Before It Breaks?. 2020 , 30, 1909005	45
1090	Flexible Composite Carbon Films Prepared by a Pancake-Making Method for Electromagnetic Interference Shielding. 2020 , 7, 1901815	19
1089	Highly Stretchable Electromagnetic Interference Shielding Materials Made with Conductive Microcoils Confined to a Honeycomb Structure. 2020 , 12, 12101-12108	12
1088	Sandwich-Like Fe&TiO@C Nanocomposites Derived from MXene/Fe-MOFs Hybrids for Electromagnetic Absorption. 2020 , 12, 55	116
1087	Achieving Macroscopic VCT MXene by Selectively Etching Al from VAlC Single Crystals. 2020 , 59, 3239-3248	12
1086	Does the Type of Polymer and Carbon Nanotube Structure Control the Electromagnetic Shielding in Melt-Mixed Polymer Nanocomposites?. 2020 , 4, 9	6
1085	Highly Stretchable Polymer Composite with Strain-Enhanced Electromagnetic Interference Shielding Effectiveness. 2020 , 32, e1907499	117
1084	Light-weight and high-efficiency electromagnetic wave shielding properties based on waste straw porous carbon. 2020 , 31, 4963-4971	1
1083	Techniques to enhance magnetic permeability in microwave absorbing materials. 2020 , 19, 100596	28
1082	Electromagnetic property of polymer derived SiCL solid solution formed at ultra-high temperature. 2020 , 162, 74-85	12
1081	Intercalated MXene-based layered composites: Preparation and application. 2020 , 31, 961-968	12

108	for exceptional electromagnetic interference shielding. 2020 , 104, 107757	18
107	Second Time-Scale Synthesis of High-Quality Graphite Films by Quenching for Effective Electromagnetic Interference Shielding. 2020 , 14, 3121-3128	35
107	Colloidal Behaviors of Two-Dimensional Titanium Carbide in Natural Surface Waters: The Role of Solution Chemistry. 2020 , 54, 3353-3362	9
107	Superhigh Electromagnetic Interference Shielding of Ultrathin Aligned Pristine Graphene Nanosheets Film. 2020 , 32, e1907411	140
107	Three-dimensional (Fe3O4/ZnO)@C Double-core@shell porous nanocomposites with enhanced broadband microwave absorption. 2020 , 162, 356-364	70
107	2D Ti3C2Tz MXene Synthesized by Water-free Etching of Ti3AlC2 in Polar Organic Solvents. 2020 , 6, 616-630	119
107	4 Thermoplastic polymer composites for EMI shielding applications. 2020 , 73-99	4
107	3 Porous materials for EMI shielding. 2020 , 287-314	6
107	SWCNT-modulated folding-resistant sandwich-structured graphene film for high-performance electromagnetic interference shielding. 2020 , 162, 490-496	20
107	Achieving high yield of Ti3C2Tx MXene few-layer flakes with enhanced pseudocapacior performance by decreasing precursor size. 2020 , 31, 1039-1043	12
107	MXene(Ti3C2TX)/graphene/PDMS composites for multifunctional broadband electromagnetic interference shielding skins. 2020 , 393, 124608	71
106	Ultrathin and flexible biomass-derived C@CoFe nanocomposite films for efficient electromagnetic interference shielding. 2020 , 190, 107935	43
106	8 MXene as a Cation-Selective Cathode Material for Asymmetric Capacitive Deionization. 2020 , 12, 13750-1375	842
106	Ultralight, Flexible, and Biomimetic Nanocellulose/Silver Nanowire Aerogels for Electromagnetic Interference Shielding. 2020 , 14, 2927-2938	121
106	6 MXene/Polymer Membranes: Synthesis, Properties, and Emerging Applications. 2020 , 32, 1703-1747	197
106	Bioinspired Microspines for a High-Performance Spray TiCT MXene-Based Piezoresistive Sensor. 2020 , 14, 2145-2155	162
106	4 The Assembly of MXenes from 2D to 3D. 2020 , 7, 1903077	119
106	TiCT MXene-Reduced Graphene Oxide Composite Electrodes for Stretchable Supercapacitors. 2020 3 , 14, 3576-3586	130

1062	Preparation of TiCT/NiZn Ferrite Hybrids with Improved Electromagnetic Properties. 2020, 13,	1
1061	Transparent carbon nanotube web structures with Ni-Pd nanoparticles for electromagnetic interference (EMI) shielding of advanced display devices. 2020 , 516, 145745	16
1060	Flexible polyethylene terephthalate/polyaniline composite paper with bending durability and effective electromagnetic shielding performance. 2020 , 389, 124433	72
1059	Electrically electromagnetic interference shielding microcellular composite foams with 3D hierarchical graphene-carbon nanotube hybrids. 2020 , 130, 105773	37
1058	Electromagnetic interference shielding Ti3C2T -bonded carbon black films with enhanced absorption performance. 2020 , 31, 1026-1029	9
1057	Light-weight and highly flexible TaC modified PyC fiber fabrics derived from cotton fiber textile with excellent electromagnetic shielding effectiveness. 2020 , 387, 124085	17
1056	Nacre-Inspired Tunable Electromagnetic Interference Shielding Sandwich Films with Superior Mechanical and Fire-Resistant Protective Performance. 2020 , 12, 6371-6382	56
1055	Synthesis and Electromagnetic Interference Shielding Performance of TiSiC-Based Ceramics Fabricated by Liquid Silicon Infiltration. 2020 , 13,	3
1054	Temperature-dependent mechanical properties of TiCO (n = 1, 2) MXene monolayers: a first-principles study. 2020 , 22, 3414-3424	22
1053	Multi-layer silver nanowire/polyethylene terephthalate mesh structure for highly efficient transparent electromagnetic interference shielding. 2020 , 31, 185303	14
1052	Electron Energy Loss Structures of Terminated Scandium and Hafnium MXene Monolayers from First-Principles Calculations. 2020 , 49, 2502-2520	4
1051	Hybrid polymer nanocomposites as EMI shielding materials in the X-band. 2020 , 28, 796-798	9
1050	MXene Titanium Carbide-based Biosensor: Strong Dependence of Exfoliation Method on Performance. 2020 , 92, 2452-2459	75
1049	A Compact MXene Film with Folded Structure for Advanced Supercapacitor Electrode Material. 2020 , 3, 1811-1820	28
1048	Axial Alignment of Carbon Nanotubes on Fibers To Enable Highly Conductive Fabrics for Electromagnetic Interference Shielding. 2020 , 12, 7477-7485	39
1047	Ni2P nanocrystals coated on carbon nanotubes as enhanced lightweight electromagnetic wave absorbers. 2020 , 161, 51-61	18
1046	Self-Healing Microsupercapacitors with Size-Dependent 2D MXene. 2020 , 7, 821-829	7
1045	Electromagnetic wave absorption performance of Ni doped Cu-ferrite nanocrystals. 2020 , 7, 016117	10

1044	Two-dimensional lamellar stacked (NH4)0.8V3O7(B.5H2O: A promising material with high dielectric properties and microwave absorption performance. 2020 , 509, 145079	6
1043	Constructing nanopores in poly(oxymethylene)/multi-wall carbon nanotube nanocomposites via poly(l-lactide) assisting for improving electromagnetic interference shielding. 2020 , 565, 536-545	45
1042	Highly Stable 3D TiCT MXene-Based Foam Architectures toward High-Performance Terahertz Radiation Shielding. 2020 , 14, 2109-2117	93
1041	Gumdrop-cake-like CuNi/C nanofibers with tunable microstructure for microwave absorbing application. 2020 , 46, 11406-11415	5
1040	Hydrophobic SiC@C Nanowire Foam with Broad-Band and Mechanically Controlled Electromagnetic Wave Absorption. 2020 , 12, 8555-8562	25
1039	Silver nanowires intercalating Ti3C2Tx MXene composite films with excellent flexibility for electromagnetic interference shielding. 2020 , 8, 3120-3126	42
1038	Theoretical investigations of a new two-dimensional semiconducting boron-carbon-nitrogen structure 2020 , 10, 3424-3428	2
1037	Radiation-Induced Self-Assembly of Ti3C2Tx with Improved Electrochemical Performance for Supercapacitor. 2020 , 7, 1901839	10
1036	Improving the performance of a titanium carbide MXene in supercapacitors by partial oxidation treatment. 2020 , 7, 1205-1211	17
1035	Two-dimensional MXenes for lithium-sulfur batteries. 2020 , 2, 613-638	130
1034	Synthesis of self-assembled phytic acid-MXene nanocomposites via a facile hydrothermal approach with elevated dye adsorption capacities. 2020 , 589, 124468	67
1033	Two-dimensional MXenes: From morphological to optical, electric, and magnetic properties and applications. 2020 , 848, 1-58	321
1032	Rational design of bifunctional ORR/OER catalysts based on Pt/Pd-doped Nb2CT2 MXene by first-principles calculations. 2020 , 8, 3097-3108	51
1031	Electromagnetic Shielding of Monolayer MXene Assemblies. 2020 , 32, e1906769	207
1030	Realization of 2D crystalline metal nitrides via selective atomic substitution. 2020 , 6, eaax8784	30
1029	Honeycomb structural rGO-MXene/epoxy nanocomposites for superior electromagnetic interference shielding performance. 2020 , 24, e00153	71
1028	Janus MXene nanosheets for macroscopic assemblies. 2020 , 4, 910-917	26
1027	In Situ N-Doped Graphene and Mo Nanoribbon Formation from Mo Ti C MXene Monolayers. 2020 , 16, e1907115	6

1026	Scalable Synthesis of Ti3C2Tx MXene. 2020 , 22, 1901241	164
1025	Electromagnetic simulation of MXene-based plasmonic metamaterials with enhanced optical absorption. 2020 , 52, 1	4
1024	A safe etching route to synthesize highly crystalline Nb2CTx MXene for high performance asymmetric supercapacitor applications. 2020 , 337, 135803	45
1023	Modifying the nanostructures of PEDOT:PSS/Ti3C2TX composite hole transport layers for highly efficient polymer solar cells. 2020 , 8, 4169-4180	44
1022	MXene Composite and Coaxial Fibers with High Stretchability and Conductivity for Wearable Strain Sensing Textiles. 2020 , 30, 1910504	147
1021	Flexible polyvinylidene fluoride film with alternating oriented graphene/Ni nanochains for electromagnetic interference shielding and thermal management. 2020 , 395, 125209	74
1020	Super-tough MXene-functionalized graphene sheets. 2020 , 11, 2077	132
1019	MXene interlayered crosslinked conducting polymer film for highly specific absorption and electromagnetic interference shielding. 2020 , 1, 177-183	23
1018	A Super-Stretchable Liquid Metal Foamed Elastomer for Tunable Control of Electromagnetic Waves and Thermal Transport. 2020 , 7, 2000177	49
1017	Self-assembly of secondary-formed multilayer La/e-Ti3C2 as high performance supercapacitive material with excellent cycle stability and high rate capability. 2020 , 835, 155343	6
1016	Fluoride ion batteries: Designing flexible M2CH2 (M=Ti or V) MXenes as high-capacity cathode materials. 2020 , 74, 104911	17
1015	Improving the properties of 2D titanium carbide films by thermal treatment. 2020 , 8, 6214-6220	4
1014	Single-Layered Chiral Nanosheets with Dual Chiral Void Spaces for Highly Efficient Enantiomer Absorption. 2020 , 132, 11451-11455	6
1013	Responsive Nanomaterials for Sustainable Applications. 2020,	1
1012	Effective surface pretreatment of hollow glass microspheres via a combined KF roughening and alkali washing strategy for the following metallization. 2020 , 31, 2305-2314	2
1011	Flexible and stretchable MXene/Polyurethane fabrics with delicate wrinkle structure design for effective electromagnetic interference shielding at a dynamic stretching process. 2020 , 19, 90-98	45
1010	UV-light modulated Ti3C2Tx MXene/g-C3N4 heterojunction film for electromagnetic interference shielding. 2020 , 134, 105899	20
1009	Self-assembly of hierarchical Ti3C2Tx-CNT/SiNPs resilient films for high performance lithium ion battery electrodes. 2020 , 348, 136211	20

1008	45, 13080-13089	44
1007	Modifications of MXene layers for supercapacitors. 2020 , 73, 104734	74
1006	Zr doped Barium hexaferrite nanoplatelets and RGO fillers embedded Polyvinylidenefluoride composite films for electromagnetic interference shielding applications. 2020 , 86, 106504	21
1005	Raman Spectroscopy Analysis of the Structure and Surface Chemistry of Ti3C2Tx MXene. 2020 , 32, 3480-3488	227
1004	Phosphorus-based metal-free Z-scheme 2D van der Waals heterostructures for visible-light photocatalytic water splitting: a first-principles study. 2020 , 22, 9250-9256	11
1003	Asymmetric conductive polymer composite foam for absorption dominated ultra-efficient electromagnetic interference shielding with extremely low reflection characteristics. 2020 , 8, 9146-9159	89
1002	Ultratough graphene-black phosphorus films. 2020 , 117, 8727-8735	40
1001	MXenes and Their Applications in Wearable Sensors. 2020 , 8, 297	56
1000	Toward Understanding the Enhanced Pseudocapacitive Storage in 3D SnS/MXene Architectures Enabled by Engineered Surface Reactions. 2020 , 26, 11231-11240	7
999	Hydrogen Bond Interaction Promotes Flash Energy Transport at MXene-Solvent Interface. 2020 , 124, 10306-10314	18
998	Role of acid mixtures etching on the surface chemistry and sodium ion storage in TiCT MXene. 2020 , 56, 6090-6093	29
997	In-situ growing Bi/BiOCl microspheres on Ti3C2 nanosheets for upgrading visible-light-driven photocatalytic activity. 2020 , 520, 146339	44
996	Synthesis of Ultralight N-Rich Porous Graphene Nanosheets Derived from Fluid Catalytic Cracking Slurry and Their Electromagnetic Wave Absorption Properties. 2020 , 59, 8243-8251	9
995	Bioinspired Multiscale Wrinkling Patterns on Curved Substrates: An Overview. 2020 , 12, 101	37
994	Electromagnetic shielding behavior of heat-treated Ti3C2TX MXene accompanied by structural and phase changes. 2020 , 165, 150-162	20
993	Insights into the Photothermal Conversion of 2D MXene Nanomaterials: Synthesis, Mechanism, and Applications. 2020 , 30, 2000712	126
992	Tunable and Ultraefficient Microwave Absorption Properties of Trace N-Doped Two-Dimensional Carbon-Based Nanocomposites Loaded with Multi-Rare Earth Oxides. 2020 , 16, e1906668	125
991	Elastomer nanocomposites containing MXene for mechanical robustness and electrical and thermal conductivity. 2020 , 31, 315715	18

990	Recent Advances and Promise of MXene-Based Nanostructures for High-Performance Metal Ion Batteries. 2020 , 30, 2000706	93
989	2D MXenes for Electromagnetic Shielding: A Review. 2020 , 30, 2000883	192
988	In Situ Ice Template Approach to Fabricate 3D Flexible MXene Film-Based Electrode for High Performance Supercapacitors. 2020 , 30, 2000922	81
987	Scalable Manufacturing of Free-Standing, Strong Ti C T MXene Films with Outstanding Conductivity. 2020 , 32, e2001093	268
986	Stretchable and conductive composites film with efficient electromagnetic interference shielding and absorptivity. 2020 , 55, 8576-8590	7
985	3D carbon-coated MXene architectures with high and ultrafast lithium/sodium-ion storage. 2020 , 29, 163-171	68
984	Dielectric properties and electromagnetic interference shielding effectiveness of Al2O3-based composites filled with FeSiAl and flaky graphite. 2020 , 829, 154556	9
983	Electromagnetic interference shielding with laser induced molybdenum carbide-graphene paper. 2020 , 271, 127784	7
982	Wearable Capacitive Pressure Sensor Based on MXene Composite Nanofibrous Scaffolds for Reliable Human Physiological Signal Acquisition. 2020 , 12, 22212-22224	121
981	Conjugate Microporous Polymer-Derived Conductive Porous Carbon Nanoparticles with Narrow Pore-Size Distribution for Electromagnetic Interference Shielding. 2020 , 3, 4553-4561	8
980	Bioinspired ultra-thin polyurethane/MXene nacre-like nanocomposite films with synergistic mechanical properties for electromagnetic interference shielding. 2020 , 8, 7170-7180	41
979	Synthesis and electrochemical properties of 2D molybdenum vanadium carbides ßolid solution MXenes. 2020 , 8, 8957-8968	38
978	Recent Advancement of Electromagnetic Interference (EMI) Shielding of Two Dimensional (2D) MXene and Graphene Aerogel Composites. 2020 , 10,	41
977	Ti2AlC triggered in-situ ultrafine TiC/Inconel 718 composites: Microstructure and enhanced properties. 2020 , 51, 70-78	12
976	Bio-inspired transparent MXene electrodes for flexible UV photodetectors. 2020 , 7, 1828-1833	67
975	Atomic defects, functional groups and properties in MXenes. 2021 , 32, 339-344	10
974	MXenes as noble-metal-alternative co-catalysts in photocatalysis. 2021 , 42, 3-14	93
973	Rational design of two-dimensional nanofillers for polymer nanocomposites toward multifunctional applications. 2021 , 115, 100708	49

972	In situ construction of protonated g-C3N4/Ti3C2 MXene Schottky heterojunctions for efficient photocatalytic hydrogen production. 2021 , 42, 107-114	68
971	Mass production of two-dimensional materials beyond graphene and their applications. 2021 , 14, 1583-1597	21
970	MXenes for Non-Lithium-Ion (Na, K, Ca, Mg, and Al) Batteries and Supercapacitors. 2021 , 11, 2000681	74
969	MXene/Polymer Nanocomposites: Preparation, Properties, and Applications. 2021 , 61, 80-115	56
968	ZnO/Ti3C2Tx monolayer electron transport layers with enhanced conductivity for highly efficient inverted polymer solar cells. 2021 , 407, 127192	33
967	In-situ growth of SiC nanowires@carbon nanotubes on 3D printed metamaterial structures to enhance electromagnetic wave absorption. 2021 , 197, 109271	15
966	Wettability of MXene and its interfacial adhesion with epoxy resin. 2021 , 257, 123820	11
965	Light-driven bimorph soft actuators: design, fabrication, and properties. 2021 , 8, 728-757	37
964	Nanocellulose-based composites for EMI shielding applications. 2021 , 125-161	3
963	Yarn-ball-shaped CNF/MWCNT microspheres intercalating TiCT MXene for electromagnetic interference shielding films. 2021 , 254, 117325	26
962	Temperature and strain-induced tunable electromagnetic interference shielding in polydimethylsiloxane/multi-walled carbon nanotube composites with temperature-sensitive microspheres. 2021 , 140, 106188	36
961	Orientation growth modulated magnetic-carbon microspheres toward broadband electromagnetic wave absorption. 2021 , 172, 516-528	33
960	MXene-Al2O3 synergize to reduce friction and wear on epoxy-steel contacts lubricated with ultra-low sulfur diesel. 2021 , 153, 106588	16
959	Fe3+-stabilized Ti3C2T MXene enables ultrastable Li-ion storage at low temperature. 2021 , 67, 156-164	14
958	Ti3C2 MXene-bridged Ag/Ag3PO4 hybrids toward enhanced visible-light-driven photocatalytic activity. 2021 , 535, 147354	25
957	A versatile route to metal oxide nanoparticles impregnated in carbon matrix for electrochemical energy storage. 2021 , 404, 126461	5
956	Interlayer Space Engineering of MXenes for Electrochemical Energy Storage Applications. 2021 , 27, 1921-194	015
955	Wearable, ultrathin and transparent bacterial celluloses/MXene film with Janus structure and excellent mechanical property for electromagnetic interference shielding. 2021 , 403, 126438	65

954	Booming development and present advances of two dimensional MXenes for photodetectors. 2021 , 403, 126336	19
953	Recent advance in electromagnetic shielding of MXenes. 2021 , 32, 620-634	5
952	Construction of shape-memory carbon foam composites for adjustable EMI shielding under self-fixable mechanical deformation. 2021 , 405, 126927	28
951	MXene/wood-derived hierarchical cellulose scaffold composite with superior electromagnetic shielding. 2021 , 254, 117033	21
950	Superhydrophobic and breathable smart MXene-based textile for multifunctional wearable sensing electronics. 2021 , 406, 126898	124
949	Recent advances in MXene-based nanocomposites for electrochemical energy storage applications. 2021 , 117, 100733	27
948	Enhanced electro-adsorption desalination performance of graphene by TiC. 2021, 254, 117602	6
947	Prestructured MXene fillers with uniform channels to enhance CO2 selective permeation in mixed matrix membranes. 2021 , 138, 49895	11
946	Hierarchical design of waterproof, highly sensitive, and wearable sensing electronics based on MXene-reinforced durable cotton fabrics. 2021 , 408, 127363	32
945	Confinement in two-dimensional materials: Major advances and challenges in the emerging renewable energy conversion and other applications. 2021 , 61, 100294	11
944	Rational design of FeCo imbedded 3D porous carbon microspheres as broadband and lightweight microwave absorbers. 2021 , 56, 2212-2225	12
943	Dielectric regulation of high-graphitized fine ash wrapped cube-like ZnSnO3 composites with boosted microwave absorption performance. 2021 , 47, 4994-5002	5
942	Simple and robust MXene/carbon nanotubes/cotton fabrics for textile wastewater purification via solar-driven interfacial water evaporation. 2021 , 254, 117615	34
941	Electromagnetic interference shielding of Ti3C2T MXene modified by ionic liquid for high chemical stability and excellent mechanical strength. 2021 , 408, 127303	35
940	Flexible Nanoporous Silver Membranes with Unprecedented High Effectiveness for Electromagnetic Interference Shielding. 2021 , 93, 245-252	13
939	3D-printing of segregated carbon nanotube/polylactic acid composite with enhanced electromagnetic interference shielding and mechanical performance. 2021 , 197, 109222	24
938	2D titanium carbide MXenes as emerging optical biosensing platforms. 2021 , 171, 112730	40
937	Nanoelectromagnetic of a highly conductive 2D transition metal carbide (MXene)/Graphene nanoplatelets composite in the EHF M-band frequency. 2021 , 173, 528-539	11

936	Nanocellulose-based sustainable microwave absorbers to stifle electromagnetic pollution. 2021, 237-258	5
935	Laser triggered exothermic chemical reaction in Au nanoparticle@ Ti3C2 MXene membrane: A route toward efficient light to high-temperature pulse conversion. 2021 , 420, 127672	7
934	Facile fabrication of ultrathin graphene film with ultrahigh electrical conductivity and superb electromagnetic interference shielding effectiveness. 2021 , 9, 214-222	7
933	Free-standing, anti-corrosion, super flexible graphene oxide/silver nanowire thin films for ultra-wideband electromagnetic interference shielding. 2021 , 9, 1180-1191	19
932	Two-dimensional MXenes for electrochemical capacitor applications: Progress, challenges and perspectives. 2021 , 35, 630-660	71
931	Thin-Metal-Film-Based Transparent Conductors: Material Preparation, Optical Design, and Device Applications. 2021 , 9, 2001298	21
930	Bilateral growth of monoclinic WO3 and 2D Ti3C2Tx on 3D free-standing hollow graphene foam for all-solid-state supercapacitor. 2021 , 421, 127883	10
929	MXene-derived TiC/SiBCN ceramics with excellent electromagnetic absorption and high-temperature resistance. 2021 , 104, 1772-1784	15
928	MXene/SnO2 heterojunction based chemical gas sensors. 2021 , 329, 129275	45
927	Conductive layer-based multifunctional structural composites for electromagnetic interference shielding. 2021 , 261, 113293	12
926	Ultrathin, biomimetic multifunctional leaf-like silver nanowires/Ti3C2Tx MXene/cellulose nanofibrils nanocomposite film for high-performance electromagnetic interference shielding and thermal management. 2021 , 860, 158151	12
925	Lightweight, flexible and superhydrophobic conductive composite films based on layer-by-layer self-assembly for high-performance electromagnetic interference shielding. 2021 , 141, 106199	6
924	The Broad Chromatic Range of Two-Dimensional Transition Metal Carbides. 2021 , 9, 2001563	33
923	Hydrogen Evolution Reaction for Vacancy-Ordered i-MXenes and the Impact of Proton Absorption into the Vacancies. 2021 , 5, 2000158	12
922	A Novel MXene/Ecoflex Nanocomposite-Coated Fabric as a Highly Negative and Stable Friction Layer for High-Output Triboelectric Nanogenerators. 2021 , 11, 2002832	43
921	Electromagnetic wave absorption performance of Ti2O3 and vacancy enhancement effective bandwidth. 2021 , 76, 166-173	12
920	Electromagnetic shielding and thermal conductive properties of SiC nanowires reinforced C/(PyC-SiC)n composites. 2021 , 47, 590-597	5
919	A review on Ti3C2Tx-based nanomaterials: synthesis and applications in gas and humidity sensors. 2021 , 40, 1459-1476	46

918	MXenes for Rechargeable Batteries Beyond the Lithium-Ion. 2021 , 33, e2004039	71
917	Cellulose nanofibrils-based hybrid foam generated from Pickering emulsion toward high-performance microwave absorption. 2021 , 255, 117333	10
916	Leaf-like Fe/C composite assembled by iron veins interpenetrated into amorphous carbon lamina for high-performance microwave absorption. 2021 , 140, 106202	10
915	Large-scale and low-cost synthesis of in situ generated SiC/C nano-composites from rice husks for advanced electromagnetic wave absorption applications. 2021 , 406, 126641	5
914	Construction of compressible Polymer/MXene composite foams for high-performance absorption-dominated electromagnetic shielding with ultra-low reflectivity. 2021 , 173, 932-940	43
913	Highly conductive and scalable Ti3C2Tx-coated fabrics for efficient electromagnetic interference shielding. 2021 , 174, 382-389	27
912	Sb2Te3 nanosheets: Topological insulators with extraordinary electromagnetic response behaviors. 2021 , 414, 128036	2
911	Electrical insulating MXene/PDMS/BN composite with enhanced thermal conductivity for electromagnetic shielding application. 2021 , 23, 100593	25
910	Mechanically strong, thermally conductive and flexible graphene composite paper for exceptional electromagnetic interference shielding. 2021 , 263, 114893	7
909	Magneto-transport of mechanically-pressed niobium carbide (Nb2C) distorted MXene. 2021 , 285, 129210	3
908	Optimizing Ion Pathway in Titanium Carbide MXene for Practical High-Rate Supercapacitor. 2021 , 11, 2003025	59
907	Tailored synthesis approach of (MoY)AlC i-MAX and its two-dimensional derivative MoCT MXene: enhancing the yield, quality, and performance in supercapacitor applications. 2021 , 13, 311-319	9
906	Electrostatically self-assembled two-dimensional magnetized MXene/hollow Fe3O4 nanoparticle hybrids with high electromagnetic absorption performance and improved impendence matching. 2021 , 9, 3500-3510	67
905	Highly Uniform and Stable Transparent Electromagnetic Interference Shielding Film Based on Silver Nanowire BEDOT: PSS Composite for High Power Microwave Shielding. 2021, 306, 2000607	11
904	Vapor phase polymerized conducting polymer/MXene textiles for wearable electronics. 2021 , 13, 1832-1841	42
903	The recent progress of MXene-Based microwave absorption materials. 2021 , 174, 484-499	37
902	Lightweight poly (vinylidene fluoride)/silver nanowires hybrid membrane with different conductive network structure for electromagnetic interference shielding. 2021 , 42, 522-531	5
901	Polylysine-modified MXene nanosheets with highly loaded glucose oxidase as cascade nanoreactor for glucose decomposition and electrochemical sensing. 2021 , 586, 20-29	18

(2021-2021)

900	Post-decontamination treatment of MXene after adsorbing Cs from contaminated water with the enhanced thermal stability to form a stable radioactive waste matrix. 2021 , 543, 152566	8
899	Room temperature gas sensing under UV light irradiation for Ti3C2Tx MXene derived lamellar TiO2-C/g-C3N4 composites. 2021 , 535, 147666	16
898	Cellulose-based Ni-decorated graphene magnetic film for electromagnetic interference shielding. 2021 , 583, 571-578	42
897	Comparison of Additives in Anode: The Case of Graphene, MXene, CNTs Integration with Silicon Inside Carbon Nanofibers. 2021 , 34, 337-346	9
896	Phenolic resin reinforcement: A new strategy for hollow NiCo@C microboxes against electromagnetic pollution. 2021 , 174, 673-682	25
895	Smart MXene-Based Janus films with multi-responsive actuation capability and high electromagnetic interference shielding performances. 2021 , 175, 594-602	27
894	Flexible hydrophobic 2D Ti3C2Tx-based transparent conductive film with multifunctional self-cleaning, electromagnetic interference shielding and joule heating capacities. 2021 , 201, 108531	29
893	Nanostructured Materials and their Applications. 2021,	
892	Significant solar energy absorption of MXene Ti3C2Tx nanofluids via localized surface plasmon resonance. 2021 , 220, 110850	22
891	New Insights on MXenes: Synthesis and Their Uses in Energy Storage and Environmental Applications. 2021 , 307-322	
890	Flexible and lightweight Ti3C2Tx MXene/Fe3O4@PANI composite films for high-performance electromagnetic interference shielding. 2021 , 47, 5747-5757	13
889	Novel yolkBhell Fe3O4@void@SiO2@PPy nanochains toward microwave absorption application. 2021 , 56, 1312-1327	21
888	Nanoengineering of 2D MXene-Based Materials for Energy Storage Applications. 2021 , 17, e1902085	193
887	Carbon Fibers Embedded with Aligned Magnetic Particles for Efficient Electromagnetic Energy Absorption and Conversion. 2021 , 13, 5266-5274	9
886	The role of MnO2/polyaniline/Y-type barium hexaferrite (Al2Y, Mg2Y, and Ni2Y) nanoparticles in the improvement of the microwave absorption properties of polyester coatings. 2021 , 45, 3252-3262	O
885	An overview of biopolymer-based nanocomposites for optics and electronics. 2021 , 9, 5578-5593	8
884	Tuning the electro-optical properties of nanowire networks. 2021 , 13, 15369-15379	1
883	2D-Material-integrated hydrogels as multifunctional protective skins for soft robots. 2021 , 8, 2065-2078	5

882	Recent progress of microwave absorption microspheres by magnetic-dielectric synergy. 2021 , 13, 2136-2156	35
881	Dual synergistic effect of a carbon/metal hybrid network on the mechanical and electromagnetic interference shielding performance in self-assembly enhanced epoxy curing networks.	2
880	Bioactive engineered photothermal nanomaterials: from theoretical understanding to cutting-edge application strategies in anti-cancer therapy. 2021 , 5, 5257-5297	5
879	Electrode materials and device architecture strategies for flexible supercapacitors in wearable energy storage. 2021 , 9, 8099-8128	24
878	Lightweight and highly conductive silver nanoparticles functionalized meta-aramid nonwoven fabric for enhanced electromagnetic interference shielding. 2021 , 56, 6499-6513	9
877	Exfoliation Energy as a Descriptor of MXenes Synthesizability and Surface Chemical Activity. 2021 , 11,	8
876	Synergetic Effect of NiP and MXene Enhances Catalytic Activity in the Hydrogen Evolution Reaction. 2021 , 60, 1604-1611	19
875	State-of-the-art recent progress in MXene-based photocatalysts: a comprehensive review. 2021 , 13, 9463-950	431
874	Facile synthesis of MXene-supported copper oxide nanocomposites for catalyzing the decomposition of ammonium perchlorate. 2021 , 8, 1747-1761	8
873	Chemically Stabilized and Functionalized 2D-MXene with Deep Eutectic Solvents as Versatile Dispersion Medium. 2021 , 31, 2008722	24
872	Hexagonal metal oxide monolayers derived from the metal-gas interface. 2021 , 20, 1073-1078	34
871	A Prussian blue-doped RGO/MXene composite aerogel with peroxidase-like activity for real-time monitoring of HO secretion from living cells. 2021 , 57, 9870-9873	2
870	Recent progress on strategies for the preparation of 2D/2D MXene/g-C3N4 nanocomposites for photocatalytic energy and environmental applications. 2021 , 11, 1222-1248	29
869	Chapter 3. Transition Metal Carbide (MXene)Polymer Nanocomposites. 2021, 99-128	
868	Electrochemically active site-rich nanocomposites of two-dimensional materials as anode catalysts for direct oxidation fuel cells: new age beyond graphene. 2021 , 3, 3681-3707	2
867	Computational simulations of 2D materials. 2021 , 313-345	
866	Electronic structures, chemical bonds, and stabilities of begin{document} ${\rm Ta}_4{\rm Tm}{\rm C}_n^{-/0} \$ \$end{document} (n = 0\alpha) clusters: Anion photoelectron spectroscopy and theoretical calculations. 2021 , 70, 023601-023601	2
865	Flexible poly(dimethyl siloxane) composites enhanced with 3D porous interconnected three-component nanofiller framework for absorption-dominated electromagnetic shielding. 2021 , 59, 353-365	2

864	First principles study of the stability of MXenes under an electron beam. 2021, 3, 1934-1941	2
863	A NiCoP nanocluster-anchored porous TiCT monolayer as high performance hydrogen evolution reaction electrocatalysts. 2021 , 13, 12854-12864	2
862	Broadband electromagnetic wave absorption properties and mechanism of MoS2/rGO nanocomposites.	2
861	Heterostructures of titanium-based MXenes in energy conversion and storage devices. 2021 , 9, 8395-8465	10
860	Theoretical assessment of Raman spectra on MXene TiC: from monolayer to bilayer. 2021 , 23, 19884-19891	1
859	Surface modification of titanium carbide MXene monolayers (TiC and TiC) chalcogenide and halogenide atoms. 2021 , 23, 15319-15328	14
858	Lightweight, flexible and freestanding PVA/PEDOT: PSS/Ag NWs film for high-performance electromagnetic interference shielding. 2021 , 64, 1723-1732	11
857	The Role of Two-Dimensional Materials in Electromagnetic Interference Shielding. 2021 , 1254-1270	
856	Polymer-based lightweight materials for electromagnetic interference shielding: a review. 2021 , 56, 6549-6580	19
855	Drastically increased electrical and thermal conductivities of Pt-infiltrated MXenes. 2021 , 9, 10739-10746	8
854	Position selective dielectric polarization enhancement in CNT based heterostructures for highly efficient microwave absorption. 2021 , 13, 2324-2332	8
853	Progress in Advanced Materials Used in Electromagnetic Interference Shielding for Space Applications. 2021 , 530-553	
852	Advances in Hybrid Conducting Polymer Technology for EMI Shielding Materials. 2021, 201-247	
851	Role of Microstructure on the Potential of MAX and MAB Phases and Their Derivative-Based Composites: A Review. 2021 , 17-41	
850	Ultrathin, flexible and sandwich-structured PHBV/silver nanowire films for high-efficiency electromagnetic interference shielding. 2021 , 9, 3307-3315	10
849	On interfacial and surface behavior of polymeric MXenes nanoarchitectures and applications. 2021 , 4, 100104	16
848	Modulation of the Electronic Properties of MXene (TiCT) Surface-Covalent Functionalization with Diazonium. 2021 , 15, 1388-1396	34
847	Interlayer Structural Engineering of 2D MXene for Electrochemical Energy Storage. 2021 , 451-478	

846	Enhancement of electromagnetic interference shielding from the synergism between Cu@Ni nanorods and carbon materials in flexible composite films. 2021 , 2, 718-727	5
845	A review on electrospun magnetic nanomaterials: methods, properties and applications. 2021 , 9, 9042-9082	11
844	Multifunctional TiCT MXene Composite Hydrogels with Strain Sensitivity toward Absorption-Dominated Electromagnetic-Interference Shielding. 2021 , 15, 1465-1474	60
843	Light-emitting MXene quantum dots. 2021 , 4, 20007701-20007715	14
842	Emerging nanomaterials applied for tackling the COVID-19 cytokine storm. 2021 , 9, 8185-8201	3
841	Fibre electronics: towards scaled-up manufacturing of integrated e-textile systems. 2021 , 13, 12818-12847	9
840	Stretchable, mechanically resilient, and high electromagnetic shielding polymer/MXene nanocomposites. 2021 , 138, 50509	7
839	Sulfur-doped wood-derived porous carbon for optimizing electromagnetic response performance. 2021 , 13, 16084-16093	1
838	Advances in electromagnetic shielding properties of composite foams. 2021 , 9, 8896-8949	34
837	Two-dimensional TiC MXene-based nanostructures for emerging optoelectronic applications. 2021 , 8, 2929-2963	7
836	Lightweight MXene/Cellulose Nanofiber Composite Film for Electromagnetic Interference Shielding. 2021 , 50, 2101-2110	11
835	A general approach to composites containing nonmetallic fillers and liquid gallium. 2021 , 7,	26
834	Improved synthesis of TiCT MXenes resulting in exceptional electrical conductivity, high synthesis yield, and enhanced capacitance. 2021 , 13, 3572-3580	59
833	A remarkably ultra-sensitive large area matrix of MXene based multifunctional physical sensors (pressure, strain, and temperature) for mimicking human skin. 2021 , 9, 4523-4534	18
832	Transition metal dichalcogenide-decorated MXenes: promising hybrid electrodes for energy storage and conversion applications. 2021 , 5, 3298-3321	15
831	Preparing high purity ETi3O5 and Li/ETi3O5 as high-performance electromagnetic wave absorbers.	2
830	Three-dimensional MXene/BCN microflowers for wearable all-solid-state microsupercapacitors. 2021 , 9, 11104-11114	2
829	Water-Dispersible Ti 3C 2T z MXene Nanosheets by Acid-Free, Molten Salt Etching.	1

(2021-2021)

828	Supercapacitors based on TiCT MXene extracted from supernatant and current collectors passivated by CVD-graphene. 2021 , 11, 649	12
827	Effectiveness of electromagnetic interference shielding of sputtered nitrogen-doped carbon thin films. 2021 , 111, 108234	2
826	Terahertz photonic applications of two-dimensional materials. 2021 , 235-244	0
825	Porous fibres of a polymer blend for broadband microwave absorption. 2021 , 2, 3613-3619	1
824	Transition metal carbide M Xene. 2021 , 671-709	
823	Synthesis of high quality 2D carbide MXene flakes using a highly purified MAX precursor for ink applications. 2021 , 3, 517-527	5
822	Multiwalled Carbon Nanotube Buckypaper/Polyacrylonitrile Nanofiber Composite Membranes for Electromagnetic Interference Shielding. 2021 , 4, 729-738	8
821	Hetero-MXenes: Theory, Synthesis, and Emerging Applications. 2021 , 33, e2004129	58
820	Halogenated TiC MXenes with Electrochemically Active Terminals for High-Performance Zinc Ion Batteries. 2021 , 15, 1077-1085	50
819	Ultraefficiently Calming Cytokine Storm Using TiCT MXene. 2021 , 5, 2001108	12
819	Ultraefficiently Calming Cytokine Storm Using TiCT MXene. 2021, 5, 2001108 Anchoring porous carbon nanoparticles on carbon nanotubes as a high-performance composite with a unique core-sheath structure for electromagnetic pollution precaution.	12 11
	Anchoring porous carbon nanoparticles on carbon nanotubes as a high-performance composite	
818	Anchoring porous carbon nanoparticles on carbon nanotubes as a high-performance composite with a unique core-sheath structure for electromagnetic pollution precaution.	11
818	Anchoring porous carbon nanoparticles on carbon nanotubes as a high-performance composite with a unique core-sheath structure for electromagnetic pollution precaution. Opportunities and challenges in microwave absorption of nickel-carbon composites. 2021, 23, 20795-20834 A TTFICNQ complex: an organic charge-transfer system with extraordinary electromagnetic	11
818 817 816	Anchoring porous carbon nanoparticles on carbon nanotubes as a high-performance composite with a unique core-sheath structure for electromagnetic pollution precaution. Opportunities and challenges in microwave absorption of nickel-carbon composites. 2021, 23, 20795-20834 A TTFICNQ complex: an organic charge-transfer system with extraordinary electromagnetic response behavior. 2021, 9, 3316-3323 Nanocomposite nanofibers of conducting polymers: Multi-functional nanostructured materials.	11
818 817 816 815	Anchoring porous carbon nanoparticles on carbon nanotubes as a high-performance composite with a unique core-sheath structure for electromagnetic pollution precaution. Opportunities and challenges in microwave absorption of nickel-carbon composites. 2021, 23, 20795-20834 A TTFIICNQ complex: an organic charge-transfer system with extraordinary electromagnetic response behavior. 2021, 9, 3316-3323 Nanocomposite nanofibers of conducting polymers: Multi-functional nanostructured materials. 2021, 157-183	11
818 817 816 815	Anchoring porous carbon nanoparticles on carbon nanotubes as a high-performance composite with a unique core-sheath structure for electromagnetic pollution precaution. Opportunities and challenges in microwave absorption of nickel-carbon composites. 2021, 23, 20795-20834 A TTFIICNQ complex: an organic charge-transfer system with extraordinary electromagnetic response behavior. 2021, 9, 3316-3323 Nanocomposite nanofibers of conducting polymers: Multi-functional nanostructured materials. 2021, 157-183 Electromagnetic interference shielding effectiveness of polymer nanocomposites. 2021, 211-236 The oxidation and thermal stability of two-dimensional transition metal carbides and/or	11 4 45

810	Sequentially Bridged Ti3C2Tx MXene Sheets for High Performance Applications. 2021, 8, 2002043	11
809	A review on optoelectronic device applications of 2D transition metal carbides and nitrides. 2021 , 200, 109452	10
808	MXenes: Synthesis, Optical Properties, and Applications in Ultrafast Photonics. 2021 , 17, e2006054	41
807	Hierarchical Self-Assembly of Thickness-Modulated Block Copolymer Thin Films for Controlling Nanodomain Orientations inside Bare Silicon Trenches. 2021 , 13,	3
806	Ultrathin MXene-aramid nanofiber electromagnetic interference shielding films with tactile sensing ability withstanding harsh temperatures. 2021 , 14, 2837-2845	22
805	CoreBhell Nanomaterials for Microwave Absorption and Electromagnetic Interference Shielding: A Review. 2021 , 4, 949-972	38
804	Exploring structural, electronic, and mechanical properties of 2D hexagonal MBenes. 2021, 33,	6
803	Electrically Insulating Flexible Films with Quasi-1D van der Waals Fillers as Efficient Electromagnetic Shields in the GHz and Sub-THz Frequency Bands. 2021 , 33, e2007286	22
802	Simple approach to fabricate MXene/cellulose paper for electromagnetic interference shielding applications. 2021 , 138, 50597	7
801	Flocculation of MXenes and Their Use as 2D Particle Surfactants for Capsule Formation. 2021 , 37, 2649-2657	4
800	Flocculation of MXenes and Their Use as 2D Particle Surfactants for Capsule Formation. 2021 , 37, 2649-2657 Multifunctional RGO/Ti3C2Tx MXene fabrics for electrochemical energy storage, electromagnetic interference shielding, electrothermal and human motion detection. 2021 , 200, 109442	31
	Multifunctional RGO/Ti3C2Tx MXene fabrics for electrochemical energy storage, electromagnetic	
800	Multifunctional RGO/Ti3C2Tx MXene fabrics for electrochemical energy storage, electromagnetic interference shielding, electrothermal and human motion detection. 2021 , 200, 109442 Hierarchically porous Co/C nanocomposites for ultralight high-performance microwave absorption.	31
800 799	Multifunctional RGO/Ti3C2Tx MXene fabrics for electrochemical energy storage, electromagnetic interference shielding, electrothermal and human motion detection. 2021 , 200, 109442 Hierarchically porous Co/C nanocomposites for ultralight high-performance microwave absorption. 2021 , 4, 173-185 Insights into the microstructures and reinforcement mechanism of nano-fibrillated	31 198
800 799 798	Multifunctional RGO/Ti3C2Tx MXene fabrics for electrochemical energy storage, electromagnetic interference shielding, electrothermal and human motion detection. 2021, 200, 109442 Hierarchically porous Co/C nanocomposites for ultralight high-performance microwave absorption. 2021, 4, 173-185 Insights into the microstructures and reinforcement mechanism of nano-fibrillated cellulose/MXene based electromagnetic interference shielding film. 2021, 28, 3311-3325 Carbonized cellulose microsphere@void@MXene composite films with egg-box structure for	311987
800 799 798 797	Multifunctional RGO/Ti3C2Tx MXene fabrics for electrochemical energy storage, electromagnetic interference shielding, electrothermal and human motion detection. 2021, 200, 109442 Hierarchically porous Co/C nanocomposites for ultralight high-performance microwave absorption. 2021, 4, 173-185 Insights into the microstructures and reinforcement mechanism of nano-fibrillated cellulose/MXene based electromagnetic interference shielding film. 2021, 28, 3311-3325 Carbonized cellulose microsphere@void@MXene composite films with egg-box structure for electromagnetic interference shielding. 2021, 141, 106229 Mechanisms of Hydrogen Evolution Reaction in Two-Dimensional Nitride MXenes Using In Situ	31198726
800 799 798 797 796	Multifunctional RGO/Ti3C2Tx MXene fabrics for electrochemical energy storage, electromagnetic interference shielding, electrothermal and human motion detection. 2021, 200, 109442 Hierarchically porous Co/C nanocomposites for ultralight high-performance microwave absorption. 2021, 4, 173-185 Insights into the microstructures and reinforcement mechanism of nano-fibrillated cellulose/MXene based electromagnetic interference shielding film. 2021, 28, 3311-3325 Carbonized cellulose microsphere@void@MXene composite films with egg-box structure for electromagnetic interference shielding. 2021, 141, 106229 Mechanisms of Hydrogen Evolution Reaction in Two-Dimensional Nitride MXenes Using In Situ X-Ray Absorption Spectroelectrochemistry. 2021, 11, 3128-3136	3119872610

(2021-2021)

792	Magnetic Ti3C2Tx/Fe3O4/Aramid nanofibers composite paper with tunable electromagnetic interference shielding performance. 2021 , 127, 1	2
791	Interband, Surface Plasmon and Fano Resonances in Titanium Carbide (MXene) Nanoparticles in the Visible to Infrared Range. 2021 , 8, 36	1
790	Optical-Transparent Self-Assembled MXene Film with High-Efficiency Terahertz Reflection Modulation. 2021 , 13, 10574-10582	3
789	EMI Shielding Properties of Polymer Blend with the Inclusion of Graphene Nano Platelets. 875, 160-167	3
788	Controllable configuration of conductive pathway by tailoring the fiber alignment for ultrasensitive strain monitoring. 2021 , 141, 106223	2
787	Multitasking MXene Inks Enable High-Performance Printable Microelectrochemical Energy Storage Devices for All-Flexible Self-Powered Integrated Systems. 2021 , 33, e2005449	64
786	Ultrafast, One-Step, Salt-Solution-Based Acoustic Synthesis of TiC MXene. 2021 , 15, 4287-4293	22
7 ⁸ 5	Third-Order Nonlinear Optical Response of Few-Layer MXene Nb2C and Applications for Square-Wave Laser Pulse Generation. 2021 , 8, 2001805	5
784	Niobium and Titanium Carbides (MXenes) as Superior Photothermal Supports for CO Photocatalysis. 2021 , 15, 5696-5705	44
783	Biodegradable PLA/CNTs/Ti3C2Tx MXene nanocomposites for efficient electromagnetic interference shielding. 1	2
782	Interfacial engineering of BiS/TiCT MXene based on work function for rapid photo-excited bacteria-killing. 2021 , 12, 1224	82
781	Ultrathin, Lightweight, and Flexible CNT Buckypaper Enhanced Using MXenes for Electromagnetic Interference Shielding. 2021 , 13, 66	31
780	Hollow Porous Bowl-like Nitrogen-Doped Cobalt/Carbon Nanocomposites with Enhanced Electromagnetic Wave Absorption. 2021 , 33, 1789-1798	45
779	Harnessing the Unique Features of 2D Materials toward Dendrite-free Metal Anodes.	5
778	Structural, thermal and dielectric behavior of two-dimensional layered Ti3C2Tx(MXene) filled ethylenellinyl acetate (EVA) nanocomposites. 2021 , 32, 8081-8091	3
777	Sustainable Double-Network Structural Materials for Electromagnetic Shielding. 2021 , 21, 2532-2537	23
776	Progress and challenges of ceramics for supercapacitors. 2021 ,	4
775	Mechanistic Understanding of the Interactions and Pseudocapacitance of Multi-Electron Redox Organic Molecules Sandwiched between MXene Layers. 2021 , 7, 2001202	1

774	Magnetic Properties and Microstructures of Fe-Doped (Ti1-xFex)3AlC2 MAX Phase and Their MXene Derivatives. 2021 , 34, 1477	О
773	Two-dimensional materials and synthesis, energy storage, utilization, and conversion applications of two-dimensional MXene materials. 2021 , 45, 9878-9894	2
77 ²	Advances in MXene Films: Synthesis, Assembly, and Applications. 2021 , 27, 217-247	19
771	MXene based advanced materials for thermal energy storage: A recent review. 2021 , 35, 102322	28
770	Boosting the Electrocatalysis of MXenes by Plasmon-Induced Thermalization and Hot-Electron Injection. 2021 , 133, 9502-9506	1
769	Improving oxidation stability of 2D MXenes: synthesis, storage media, and conditions. 2021 , 8, 9	44
768	An Overview of Recent Advances in the Synthesis and Applications of the Transition Metal Carbide Nanomaterials. 2021 , 11,	3
767	Molten Salt Derived Nb2CTx MXene Anode for Li-ion Batteries. 2021 , 8, 957-962	13
766	Stable Metallicity of Low Dimentional WCrC Derivatives: A First-Principles Study. 2021 , 4, 2100036	3
765	MXene-Based Materials for Electrochemical Sodium-Ion Storage. 2021 , 8, e2003185	17
764	In-situ reduction of silver by surface DBD plasma: a novel method for preparing highly effective electromagnetic interference shielding Ag/PET. 2021 , 23, 035502	1
763	Ultrafast mode-locking in highly stacked Ti3C2Tx MXenes for 1.9-th infrared femtosecond pulsed lasers. 2021 , 10, 1741-1751	11
762	MXene materials based printed flexible devices for healthcare, biomedical and energy storage applications. 2021 , 43, 99-131	29
761	A review on recent advances in carbon-based dielectric system for microwave absorption. 2021 , 56, 10782-10	814
760	Electromagnetic wave-absorbing performance of carbons, carbides, oxides, ferrites and sulfides: review and perspective. 2021 , 54, 203001	28
759	Flexible multilayered MXene/thermoplastic polyurethane films with excellent electromagnetic interference shielding, thermal conductivity, and management performances. 2021 , 4, 274-285	94
758	High-Performance and Reliable Silver Nanotube Networks for Efficient and Large-Scale Transparent Electromagnetic Interference Shielding. 2021 , 13, 15525-15535	13
757	Polymer nanocomposites with aligned two-dimensional materials. 2021 , 114, 101360	14

756	MXenes and the progress of LiB battery development perspective. 2021 , 3, 021002	4
755	Boosting the Electrocatalysis of MXenes by Plasmon-Induced Thermalization and Hot-Electron Injection. 2021 , 60, 9416-9420	24
754	Flexible MXene-Based Composites for Wearable Devices. 2021 , 31, 2009524	75
753	CuBiS/MXenes with Excellent Solar-Thermal Conversion for Continuous and Efficient Seawater Desalination. 2021 , 13, 16246-16258	16
75 ²	Ambient-Stable Two-Dimensional Titanium Carbide (MXene) Enabled by Iodine Etching. 2021, 60, 8689-8693	58
751	Reduction of Electrochemically Exfoliated Graphene Films for High-Performance Electromagnetic Interference Shielding. 2021 , 13, 15827-15836	6
75°	MXenes for memristive and tactile sensory systems. 2021 , 8, 011316	8
749	Advanced MXene/shear stiffening composite-based sensor with high-performance electromagnetic interference shielding and anti-impacting Bi-protection properties for smart wearable device. 2022 , 440, 135869	2
748	Rational design of graphene/polymer composites with excellent electromagnetic interference shielding effectiveness and high thermal conductivity: a mini review. 2022 , 117, 238-250	2
747	Comparative Study of Electric and Magnetic Losses in Shielding Materials for Far-Field and Near-Field Electromagnetic Interference Suppression. 2021 ,	
746	Guidelines for Synthesis and Processing of Chemically Stable Two-Dimensional V2CTx MXene. 2022 , 34, 499-509	11
745	Improved Thermo-Mechanical Properties and Reduced Hydrogen Permeation of Short Side-Chain Perfluorosulfonic Acid Membranes Doped with TiCT 2021 , 14,	2
744	Recent Advances in New Materials for 6G Communications. 2022 , 8, 2100978	O
743	Ti3C2Tx MXene for organic/perovskite optoelectronic devices. 2021 , 28, 3935-3958	6
742	Interfacing MXene Flakes on a Magnetic Fiber Network as a Stretchable, Flexible, Electromagnetic Shielding Fabric 2021 , 12,	6
74 ¹	Quinary High-Entropy-Alloy@Graphite Nanocapsules with Tunable Interfacial Impedance Matching for Optimizing Microwave Absorption 2021 , e2107265	10
74º	Three-Dimensional Porous Ti3C2Tx MXene-Based Hybrids Formed by Charge-Driven Assembly. 2021 , 33, 9560-9570	1
739	Colorless-to-colorful switching of electrochromic MXene by reversible ion insertion. 2022 , 15, 3587-3593	3

738	Applications of 2D MXenes for Electrochemical Energy Conversion and Storage. 2021 , 14, 8183	O
737	Preparation and properties of flexible nanocellulose fibers/Ag nanoparticles composite films with excellent electromagnetic shielding performance. 2022 , 128, 1	
736	A Robust Hierarchical MXene/Ni/Aluminosilicate Glass Composite for High-Performance Microwave Absorption 2021 , e2104163	7
735	Hierarchical Ti C T MXene/Carbon Nanotubes Hollow Microsphere with Confined Magnetic Nanospheres for Broadband Microwave Absorption 2021 , e2104380	7
734	Study on frequency selective/absorption/reflection multilayer composite flexible electromagnetic interference shielding fabric. 2022 , 92, 851-859	О
733	Multifunctional, Light-Weight Wearable Sensor Based on 3D Porous Polyurethane Sponge Coated with MXene and Carbon Nanotubes Composites. 2022 , 9, 2101592	2
732	High-Performance Transparent Broadband Microwave Absorbers. 2022 , 9, 2101714	1
731	Piezoelectricity in Monolayer and Multilayer Ti3C2Tx MXenes: Implications for Piezoelectric Devices. 2022 , 5, 1034-1046	3
730	A Flexible, Mechanically Strong, and Anti-Corrosion Electromagnetic Wave Absorption Composite Film with Periodic Electroconductive Patterns. 2111045	9
729	Directional Electromagnetic Interference Shielding Based on Step-Wise Asymmetric Conductive Networks. 2021 , 14, 16	2
728	MXene: Evolutions in Chemical Synthesis and Recent Advances in Applications. 2022, 5, 1-36	4
727	Theoretical Predictions, Experimental Modulation Strategies, and Applications of MXene-Supported Atomically Dispersed Metal Sites 2021 , e2105883	7
726	CNT@PDMS/NW composite materials with superior electromagnetic shielding. 2022, 76, 299-304	O
725	Multilayer cross-linking polyetherimide/ Ti 3 C 2 T x MXenes material with pores channel structure for electromagnetic interference shielding. 2022 , 139, 52075	1
724	Highly Sensitive MXene Helical Yarn/Fabric Tactile Sensors Enabling Full Scale Movement Detection of Human Motions. 2100890	O
723	Enhanced Electromagnetic Wave Absorbing Material CoO/MWCNTs Prepared by Pyrolysis of Zeolitic Imidazolate Framework. 2021 , 95, S352-S358	
722	Role of the A-Element in the Structural, Mechanical, and Electronic Properties of TiAC MAX Phases 2021 ,	1
721	Transparent and High-Absolute-Effectiveness Electromagnetic Interference Shielding Film Based on Single-Crystal Graphene. 2101465	1

720	High-efficient electromagnetic absorption and composites of carbon microspheres. 2021 , 130, 230902	2
719	Hydrothermal assembly of NiCoAI/Ti3C2Tx MXene composites for tunable microwave absorption. 2021 ,	
718	Additive-mediated intercalation and surface modification of MXenes 2022,	9
717	Lightweight and hydrophobic Ni/GO/PVA composite aerogels for ultrahigh performance electromagnetic interference shielding. 2022 , 11, 1722-1732	Ο
716	S-doped multilayer niobium carbide (Nb4C3Tx) electrocatalyst for efficient hydrogen evolution in alkaline solutions. 2022 ,	О
715	Recent progress in the all-solid-state flexible supercapacitors.	1
714	Ultralow-Voltage-Drivable Artificial Muscles Based on a 3D Structure MXene-PEDOT:PSS/AgNWs Electrode 2022 ,	2
713	Recent advances in solid-state supercapacitors: From emerging materials to advanced applications.	1
712	MXene chemistry, electrochemistry and energy storage applications.	35
711	Thickness-dependent neutralization of low-energy alkali-metal ions scattering on graphene. 2022 , 105,	Ο
710	Ti C T /MoS Self-Rolling Rod-Based Foam Boosts Interfacial Polarization for Electromagnetic Wave Absorption 2022 , e2201118	5
709	Flexible Aramid Nanofiber/Bacterial Cellulose/Graphene Papers with Nickel Nanoparticles for Enhanced Electromagnetic Interference Shielding and Joule Heating Performance.	1
708	Thermal Decomposition of Collu Double Salicylate Complex under Argon Atmosphere Resulting in Metallarbon Compositions. 2022 , 67, 555-559	
707	MXenes: An emergent materials for packaging platforms and looking beyond.	2
706	Hierarchical SiC fiber aerogel toward microwave attenuation and thermal insulation application. 2022 , 165097	0
705	Synthesis and electromagnetic wave absorption of novel Mo2TiC2Tx MXene with diverse etching methods. 2022 , 57, 7849	O
704	Dual-mode biomimetic soft actuator with electrothermal and magneto-responsive performance. 2022 , 238, 109880	1
703	Data_Sheet_1.docx. 2019 ,	

702	Studying plasmon dispersion of MXene for enhanced electromagnetic absorption 2022, e2201120	O
701	Surface-Engineered Ti C T with Tunable Work Functions for Highly Efficient Polymer Solar Cells 2022 , e2201046	1
700	An Assessment of MXenes through Scanning Probe Microscopy 2022 , e2101599	O
699	Layered Structure Poly(Vinylidene Fluoride)/Low-Melting-Point Alloy Composites with Absorption-Dominated Electromagnetic Shielding and Excellent Thermal Conduction.	
698	Synthesis of Ti3alc2 Max Phase Under Vacuum, its Structural Characterisation and Using for Ti3c2tx Mxene Preparation.	
697	Ultra-broadband Saline-based Metamaterial Absorber with Near Theoretical Absorption Bandwidth Limit. 2022 , 1-1	1
696	Electrical and magneto transport in 2D semiconducting MXene Ti2CO2.	
695	Highly Anisotropic Metallized Wood Obtained by Filling Basswood Channels with Low-Melting-Point Sn-Bi Alloy.	
694	High-Strength Mxene Sheets Through Interlayer Cross-Linking for Self-Healing Flexible Pressure Sensor.	
693	Microwave-Assisted Hydrothermal Synthesis of 2d/2d Mos2/Ti3c2tx Heterostructure for Enhanced Microwave Absorbing Performance.	
692	Greatly Enhanced Electromagnetic Interference Shielding Effectiveness and Mechanical Properties of Polyaniline-Grafted TiCT MXene-PVDF Composites 2022 ,	2
691	Synergistic lubrication of few-layer Ti3C2Tx/MoS2 heterojunction as a lubricant additive. 1	3
690	Multifunctional Bacterial Cellulose Nanofibers/Polypyrrole (PPy) Composite Films for Joule Heating and Electromagnetic Interference Shielding.	1
689	In Situ Ice Template Approach to Fabricate Ag Modified 3D Ti3C2Tx Film Electrode for Supercapacitors. 2022 , 140461	O
688	Synthesis of 2D material based Bi2O3/MXene nanohybrids and their applications for the removal of industrial effluents. 2022 ,	О
687	Broadband and Wide-Angle Performance of a Perfect Absorber Using a MIM Structure with 2D MXene. 2022 , 11, 1370	О
686	Aerogel-based composites for electromagnetic interface shielding applications. 1-21	
685	Bioinspired cellulose-integrated MXene-based hydrogels for multifunctional sensing and electromagnetic interference shielding.	1

684	Vertically Aligned Carbon Nanotube@Graphene Paper/Polydimethylsilane Composites for Electromagnetic Interference Shielding and Flexible Joule Heating.	0
683	Ti3C2Tx-coated diatom frustules-derived porous SiO2 composites with high EMI shielding and mechanical properties. 2022 ,	Ο
682	An MXene based flexible patch antenna for pressure and level sensing applications. 2022, 33, 100367	3
681	Enhanced electromagnetic interference (EMI) shielding in BiFeO3graphene oxide nanocomposites over X-band frequency region. 2022 , 131, 174101	Ο
680	Superhydrophobic Ti3C2Tx MXene/aramid nanofiber films for high-performance electromagnetic interference shielding in thermal environment. 2022 , 136945	2
679	Strengthened Optical Nonlinearity of V2C Hybrids Inlaid with Silver Nanoparticles. 2022 , 12, 1647	1
678	Electrostatic Adsorption Behaviors of Charged Polymer-tethered Nanoparticles on Oppositely Charged Surfaces 2022 , e2200171	1
677	Electromagnetic Interference Shielding by Reduced Graphene Oxide Foils.	1
676	CNT-assisted design of stable liquid metal droplets for flexible multifunctional composites. 2022 , 109961	2
675	Nanocellulose-assisted preparation of electromagnetic interference shielding materials with diversified microstructure.	2
674	Element-Doped Mxenes: Mechanism, Synthesis, and Applications 2022, e2201740	4
673	Multi-interface Assembled N-Doped MXene/HCFG/AgNW Films for Wearable Electromagnetic Shielding Devices with Multimodal Energy Conversion and Healthcare Monitoring Performances 2022 ,	5
672	An anti-freezing and strong wood-derived hydrogel for high-performance electronic skin and wearable sensing. 2022 , 109954	4
671	Flexible MXene films for batteries and beyond.	2
670	On the interface between biomaterials and two-dimensional materials for biomedical applications 2022 , 186, 114314	О
669	Plasmonic NbC MXene-MAPbI Heterostructure for Self-Powered Visible-NIR Photodiodes 2022,	4
668	An Experimental Investigation and Optimization of Electromagnetic Interference Shielding Effectiveness of Hybrid Epoxy Nanocomposites. 1	1
667	The future of energy materials: A case of MXenes-carbon dots nanocomposites. 2022 , 50, 104711	О

666	Broadband mechanical metamaterial absorber enabled by fused filament fabrication 3D printing. 2022 , 55, 102856	О
665	Ultralight, compressible and superhydrophobic hybrid foam with highly efficient electromagnetic interference shielding in damping and high humidity environment. 2022 , 911, 165086	2
664	First-principles study of band alignment and electronic structure of Arsenene/SnS2 heterostructures. 2022 , 142, 115271	
663	Skin inspired multifunctional crumpled Ti3C2Tx MXene/Tissue composite film. 2022 , 158, 106967	1
662	A carbon nanotube coated metawall with ultra-wideband perfect wave absorption utilizing cement dielectric. 2022 , 196, 220-228	0
661	Robust biomimetic Ti3C2Tx nanocomposite films enhanced by mussel-inspired polymer for highly efficient electromagnetic shielding and thermal camouflage. 2022 , 196, 410-421	
660	High-performance electromagnetic interference shielding and thermoelectric conversion derived from multifunctional Bi2Te2.7Se0.3/MXene composites. 2022 , 196, 243-252	0
659	Multilayered Cu/NiFe thin films for electromagnetic interference shielding at high frequency. 2022 , 914, 165330	O
658	C60 intercalating Ti3C2T MXenes assisted by Eyclodextrin for electromagnetic interference shielding films with high stability. 2022 , 127, 71-77	1
657	Fine-tuning the electromagnetic parameters of 2D conjugated metal-organic framework semiconductors for anti-electromagnetic interference in the Ku band. 2022 , 444, 136574	1
656	Lightweight, stiff and Heat-Resistant Bamboo-Derived carbon scaffolds with gradient aligned microchannels for highly efficient EMI shielding. 2022 , 446, 136911	0
655	Millefeuille-inspired highly conducting polymer nanocomposites based on controllable layer-by-layer assembly strategy for durable and stable electromagnetic interference shielding 2022 , 622, 97-108	2
654	Cellulose Nanofiber/Graphene Nanoplatelet/MXene Nanocomposites for Enhanced Electromagnetic Shielding and High In-Plane Thermal Conductivity.	3
653	Electric field modulated water permeation through laminar Ti3C2Tx MXene membrane. 2022 , 118598	1
652	Energy band gaps and novel thermoelectric properties of two-dimensional functionalized Yttrium carbides (MXenes). 2022 , 413922	0
651	Promoting the electromagnetic interference shielding of Ti3C2T flakes by loading Fe3O4 nanoparticles: Insights into the performance of oligo-layers exposed to microwave interferences. 2022 ,	O
650	Verification of stability and unraveling the electronic and physical properties of bulk and (001) -surfaces of newly synthesized Ti2ZnX (X = C, N) MAX phases. 2022 , 102032	1
649	Structural Evolution of MXenes and Their Composites for Electromagnetic Interference Shielding Applications.	2

648	Silver decorated MXene Nanosheet as a Radical Initiator for Polymerization and Multifunctional Hydrogel.	О
647	Isolating Single and Few Atoms for Enhanced Catalysis 2022 , e2201796	12
646	Multilayer MXene Heterostructures and Nanohybrids for Multifunctional Applications: A Review. 1174-1206	2
645	Anisotropically Oriented Carbon Films with Dual-Function of Efficient Heat Dissipation and Excellent Electromagnetic Interference Shielding Performances. 2202057	11
644	Flexible and Transparent Electrode of Hybrid TiCT MXene-Silver Nanowires for High-Performance Quantum Dot Light-Emitting Diodes 2022 ,	4
643	Laminated Structural Engineering Strategy toward Carbon Nanotube-Based Aerogel Films 2022,	4
642	Theoretical Prediction of Graphene-like 2D Uranyl Material with p-Orbital Antiferromagnetism.	1
641	2D Single- and Few-Layered MXene: Synthesis, applications and perspectives.	5
640	Nanostructured Materials for Supercapacitors. 2022 , 1-26	
639	Amino Termination of Ti 3 C 2 MXene Induces its Graphene Hybridized Film with Enhanced Ordered Nanostructure and Excellent Multiperformance. 2102418	Ο
638	Ultra-broadband Strong Electromagnetic Interference Shielding with Ferromagnetic Graphene Quartz Fabric. 2202982	3
637	A facile way of enhancing thermally and electrically conductive properties of epoxy/Ni/GNP composites via construction of hybrid filler network with magnetic field orientation technique. 2200144	
636	Low Infrared Emissivity and Strong Stealth of Ti-Based MXenes. 2022 , 2022, 1-7	1
635	Recent Progress in Electromagnetic Interference Shielding Performance of Porous Polymer Nanocomposites Review. 2022 , 15, 3901	3
634	MXene-Based Aptasensors: Advances, Challenges, and Prospects. 2022 , 100967	6
633	High-strength, flexible and superhydrophobic graphene/aramid nanofiber nanocomposite films for electromagnetic interference shielding application. 2022 ,	Ο
632	Integrating MXene waste materials into value-added products for smart wearable self-powered healthcare monitoring. 2022 , 100908	1
631	Flexible graphene/bacterial celluloses Janus structure film with excellent electromagnetic interference shielding and Joule heating performance. 2022 , 126318	1

630	Ultralight and Hydrophobic MXene/Chitosan-derived Hybrid Carbon Aerogel with Hierarchical Pore structure for Durable Electromagnetic Interference Shielding and Thermal Insulation. 2022 , 137093	4
629	Functionalized-MXene Thin-Film Nanocomposite Hollow Fiber Membranes for Enhanced PFAS Removal from Water.	1
628	Roll-to-roll processable MXene-rGO-PVA composite films with enhanced mechanical properties and environmental stability for electromagnetic interference shielding. 2022 ,	0
627	Mildly Peeling Off and Encapsulating Large MXene Nanosheets with Rigid Biologic Fibrils for Synchronization of Solar Evaporation and Energy Harvest.	2
626	Progress of 2D MXenes based composites for efficient electromagnetic interference shielding applications: A review. 2022 , 287, 117095	0
625	Construction of gradient conductivity cellulose nanofiber/MXene composites with efficient electromagnetic interference shielding and excellent mechanical properties. 2022 , 226, 109540	2
624	Optimization of etching and sonication time to prepare monolayer Ti3C2T MXene flakes: A structural, vibrational, and optical spectroscopy study. 2022 , 167, 207256	0
623	Interface engineering with zincophilic MXene for regulated deposition of dendrite-free Zn metal anode. 2022 , 50, 243-251	8
622	Super-Stretchable and Self-Healing hydrogel with a Three-Dimensional silver nanowires network structure for wearable sensor and electromagnetic interference shielding. 2022 , 446, 137136	1
621	Ti2co2/Ti2cf2 Van Der Waals Heterostructure with Robust Schottky Barriers Under Electric Fields.	
620	Nickel Oxide Sprinkled In-Situ Grown Hierarchal Graphitic Jungle Anchored Feathery Aluminium Foam: A Novel Material for Remarkable Electromagnetic Waves Absorption.	
619	Facile Preparation of Ti3c2tx Mxene @Zn-Mn Ferrite Composites and Their Excellent Microwave Absorption Performance.	
618	MXene in core-shell structures: Research progress and future aspects.	1
617	Biocompatible, stretchable, and compressible cellulose/MXene hydrogel for strain sensor and electromagnetic interference shielding. 1-11	2
616	Significantly enhanced thermally conductive epoxy composite composed of caterpillar-like structured expanded graphite/ boron nitride nanotubes. 095400832211060	0
615	Metal-Confined Synthesis of ZnS2 Monolayer Catalysts for Dinitrogen Electroreduction. 2022 , 12, 6809-6815	0
614	3D Porous MXene Films for Advanced Electromagnetic Interference Shielding and Capacitive Storage. 2022 , 12, 780	0
613	Flexible and densified graphene/waterborne polyurethane composite film with thermal conducting property for high performance electromagnetic interference shielding.	3

612	MXene-based Quantum Dots Optimize Hydrogen Production via Spontaneous Evolution of Cl- to O-terminated Surface Groups.	2
611	Constructing nickel chain/MXene networks in melamine foam towards phase change materials for thermal energy management and absorption-dominated electromagnetic interference shielding.	11
610	High-performance porous carbon foams via catalytic pyrolysis of modified isocyanate-based polyimide foams for electromagnetic shielding.	2
609	Recent Research Progress in the Structure, Fabrication, and Application of MXene-Based Heterostructures. 2022 , 12, 1907	0
608	Light-weight, low-loading and large-sheet reduced graphene oxide for high-efficiency microwave absorber. 2022 ,	1
607	Effective fabrication of flexible nickel chains/acrylate composite pressure-sensitive adhesives with layered structure for tunable electromagnetic interference shielding.	5
606	TiCN MXene hybrid BCN nanotubes with trace level Co as an efficient ORR electrocatalyst for Zn-air batteries. 2022 , 47, 20894-20904	1
605	Enhanced heat conductance and microwave absorption of 2D laminated Ti3C2Tx MXene microflakes via steering surface, defects, and interlayer spacing. 2022 , 165740	O
604	Two-dimensional nanomaterials for tumor microenvironment modulation and anticancer therapy. 2022 , 187, 114360	O
603	Analytical methods to determine and sense heavy metal pollutants using MXene and MXene-based composites: Mechanistic prophecy into sensing properties. 2022 , 303, 135166	
602	Robust flame-retardant, super mechanical laminate epoxy composites with tunable electromagnetic interference shielding. 2022 , 26, 100724	O
601	Engineered core-shell SiO2@Ti3C2Tx composites: Towards ultra-thin electromagnetic wave absorption materials. 2022 , 446, 137260	4
600	Nonlinear optical properties of MXene and applications in broadband ultrafast photonics. 2022 , 918, 165580	1
599	Recent advances in Two-dimensional Ti3C2Tx MXene for flame retardant polymer materials. 2022 , 446, 137239	2
598	A double crosslinking MXene/cellulose nanofiber layered film for improving mechanical properties and stable electromagnetic interference shielding performance. 2022 , 129, 127-134	O
597	Improving dispersion and delamination of graphite in biodegradable starch materials via constructing cation-Interaction: Towards microwave shielding enhancement. 2022 , 129, 196-205	3
596	Fabricating flexible conductive structures by printing techniques and printable conductive materials.	4
595	Interfacial structure design of MXene-based nanomaterials for supercapacitors and batteries. 2022,	

594	Investigation of Interfacial Interaction of Graphene Oxide and Ti3c2tx (Mxene) Via Atomic Force Microscopy.	
593	MXene: Pioneering 2D Materials. 2022, 1-16	
592	MXenes for Electromagnetic Interference (EMI) Shielding. 2022 , 219-240	
591	Bridging Sheet Size Controls Densification of MXene Films for Robust Electromagnetic Interference Shielding.	
590	Environmental Applications of MXenes. 2022 , 171-218	
589	Synthesis and Processing Strategies. 2022 , 17-36	O
588	3D-Printed Sodiophilic V2CTx/rGO-CNT MXene Microgrid Aerogel for Stable Na Metal Anode with High Areal Capacity.	3
587	2D Monolayers for Superior Transparent Electromagnetic Interference Shielding.	1
586	The Role of Antioxidant Structure in Mitigating Oxidation in Ti 3 C 2 T x and Ti 2 CT x MXenes. 2200480	1
585	Boosted $ ext{Li}$ Cation Effect in the Stabilized Small Organic Molecule Electrode via Hydrogen Bonding with MXene.	1
584	Magnetic Interacted Interaction Effect in MXene Skeleton: Enhanced Thermal-Generation for Electromagnetic Interference Shielding. 2201587	2
583	Preparation and electromagnetic wave absorption properties of SiC/SiO2 nanocomposites with different special structures. 2022 , 153968	O
582	High-Capacity Ti3C2Tx MXene Electrodes Achieved by Eliminating Intercalated Water Molecules Using a Co-solvent System.	
581	Anisotropic electromagnetic absorption of the aligned Ti3C2Tx MXene/RGO nanocomposite foam. 2022 , 109609	3
580	Partially oxidized MXenes-derived C-TiO2/Ti3C2 coupled with Fe-C3N4 as a ternary Z-scheme heterojunction: Enhanced photothermal and photo-Fenton performance. 2022 ,	0
579	Ultrathin Flexible Graphene Film for High-Performance Electromagnetic Interference Shielding via Infrared-Assisted Rapid Thermal Shock Exfoliation.	
578	Absorption-dominated electromagnetic shielding and excellent thermal conduction properties of poly(vinylidene fluoride)/SnBi58/Co-C composites with layered structure. 2022 , 165998	
577	MXene-based nanocomposites for solar energy harvesting. 2022 , e00462	4

576	Multifunctional self-assembled gold nanorod monolayer/Ti3C2Tx nanocomposites based on interfacial electrostatic for highly sensitive SERS detection of organic dyes and adenine. 2022 , 165978	0
575	Magnetically accelerated thermal energy storage within Fe 3 O 4 -anchored MXene-based phase change materials.	O
574	Enhanced low-frequency microwave absorption performance of FeNi alloy coated carbon foam assisted by SiO2 layer. 2022 , 154046	О
573	Recyclable magnetic carbon foams possessing voltage-controllable electromagnetic shielding and oil/water separation. 2022 ,	1
572	Electrostatic Self-assembly of Ti 3 C 2 T \times MXene /Cellulose Nanofiber Composite Films for Wearable Supercapacitor and Joule Heater.	
571	MXene-based hydrogels towards the photothermal applications.	O
570	Microwave absorption performance of core-shell rGO/Ni 0.5 Co 0.5 Fe 2 O 4 @PEDOT composite: An effective approach to reduce electromagnetic wave pollution.	О
569	Two Dimensional MOene: From Superconductors to Direct Semiconductors and Weyl Fermions.	2
568	Tunable Infrared Sensing Properties of MXenes Enabled by Intercalants. 2200623	О
567	High-efficiency ultraviolet shielding and high transparency of Ti3C2T MXene/poly(vinyl alcohol) nanocomposite films. 2022 , 33, 101235	Ο
566	Creating multilayer-structured polystyrene composites for enhanced fire safety and electromagnetic shielding. 2022 , 242, 110068	Ο
565	Remove the E Terminal Groups on Ti3C2Tx by Reaction with Sodium Metal to Enhance Pseudocapacitance. 2022 , 50, 802-809	Ο
564	Thermal insulating and fire-retardant lightweight carbon-slag composite foams towards absorption dominated electromagnetic interference shielding. 2022 , 33, e00453	0
563	Orderly Self-Stacking a High-Stability coating of MXene@Polydopamine hybrid onto textiles for multifunctional personal thermal management. 2022 , 160, 107038	1
562	Multifunctional recycled carbon fiber-Ti3C2Tx MXene paper with superior electromagnetic interference shielding and photo/electro-thermal conversion performances. 2022 , 197, 87-97	1
561	Microwave absorption performance of M-type hexagonal ferrite and MXene composite in Ka and V bands (5G mmWave frequency bands). 2022 , 560, 169523	0
560	Heterogeneous films assembled from Ti3C2T MXene and porous double-layered carbon nanosheets for high-performance electromagnetic interference shielding. 2022 , 599, 153944	О
559	Bioinspired MXene/polyurethane plastic films with exceptional flexibility and toughness for electromagnetic interference shielding. 2022 , 154, 111939	1

558	Modulating the electronic structures and potential applications of Zr2CO2/MSe2 (M´=´Mo, W) heterostructures by different stacking modes: A density functional theory calculation. 2022 , 599, 154014	1
557	Two-dimensional antibacterial materials. 2022 , 130, 100976	3
556	Investigations on Lanthanide polymers for radiation shielding purpose. 2022, 199, 110310	2
555	Ultrathin nanocomposite films with asymmetric gradient alternating multilayer structures exhibit superhigh electromagnetic interference shielding performances and robust mechanical properties. 2022 , 447, 137537	3
554	Laminated antimonene as an alternative and efficient shielding strategy against X-ray radiation. 2022 , 29, 101566	0
553	One-Step Synthesis of PdCu@Ti3C2 with High Catalytic Activity in the Suzuki-Miyaura Coupling Reaction.	O
552	Healable Polyurethane-Based Composites with Shielding Capsule Structure for Absorption-Dominated Electromagnetic Interference Shielding.	
551	Smart and Flexible Cnts@Mxene Heterostructure-Decorated Cellulose Films with Excellent Electrothermal/Photothermal Conversion and Emi Shielding Performances.	
550	Facile synthesis of rare earth-doped CeF3 two-dimensional nanosheets and their application in ratiometric luminescence temperature sensing.	0
549	Flexible, robust and multifunctional montmorillonite/aramid nanofibers@MXene electromagnetic shielding nanocomposite with an alternating structure for enhanced Joule heating and fire-resistant protective performance.	О
548	The advent of thermoplasmonic membrane distillation. 2022 , 51, 6087-6125	6
547	Surface potential-determined performance of Ti3C2T2 (T = O , F, OH) and Zr3C2T2 (T = O , F, OH , S) MXenes as anode materials of sodium ion batteries.	1
546	Recent progress in environmental remediation, colloidal behavior and biological effects of MXene:A review.	
545	Marine polysaccharides-based electromagnetic absorbing/shielding materials: designing principles, structure, and properties.	1
544	Ultrathin and flexible hybrid films decorated by copper nanoparticles with a sandwich-like structure for electromagnetic interference shielding.	0
543	Microwave-assisted rapid synthesis of titanium phosphate free phosphorus doped Ti3C2 MXene with boosted pseudocapacitance.	1
542	Two-dimensional Carbide/Nitride (MXenes) Materials in Thermal Catalysis.	3
541	Layer-by-Layer Assembly of Multifunctional NR/MXene/CNTs Composite Films with Exceptional Electromagnetic Interference Shielding Performances and Excellent Mechanical Properties. 2200387	2

540	Enhanced Electromagnetic Shielding and Thermal Conductive Properties of Polyolefin Composites with a Ti3C2Tx MXene/Graphene Framework Connected by a Hydrogen-Bonded Interface. 2022 , 16, 9254-92	266 ⁶
539	3D Porous MXene Aerogel through Gas Foaming for Multifunctional Pressure Sensor. 2022 , 2022, 1-11	2
538	Ceramic-based electromagnetic wave absorbing materials and concepts towards lightweight, flexibility and thermal resistance. 1-34	1
537	Termination-Property Coupling via Reversible Oxygen Functionalization of MXenes.	O
536	Electrochemical deposition assisted the construction of titanium carbide@polyaniline hybrid in waterborne polyurethane conductive network for improved electromagnetic interference shielding and flame retardancy. 2022 , 154090	
535	SnCl4-Treated Ti3C2Tx MXene Nanosheets for Schottky Junction Solar Cells with Improved Performance.	3
534	Microwave-assisted hydrothermal synthesis of 2D/2D MoS2/Ti3C2T heterostructure for enhanced microwave absorbing performance. 2022 , 166253	О
533	Photothermal healable, stretchable, and conductive MXene composite films for efficient electromagnetic interference shielding. 2022 ,	3
532	Influence of N-doping on dielectric properties of carbon-coated copper nanocomposites in the microwave and terahertz ranges. 2022 ,	
531	A Review on Graphene-Based Electromagnetic Functional Materials: Electromagnetic Wave Shielding and Absorption. 2204591	4
530	Combining surface textures and MXene coatingsBowards enhanced wear-resistance and durability. 2022 , 10, 033001	1
529	Stable Sn-doped In2O3 films coated on Al2O3 for infrared transparent and electromagnetic shielding conductors. 2022 , 154149	O
528	Ultrastrong and Hydrophobic Sandwich-Structured MXene-Based Composite Films for High-Efficiency Electromagnetic Interference Shielding.	1
527	Electrically Conductive 2D Material Coatings for Flexible and Stretchable Electronics: A Comparative Review of Graphenes and MXenes. 2204772	3
526	Early Warning of Coal Spontaneous Combustion: A Study of CO Response Mechanism Based on PANI/Ti 3 AlC 2 Composite Gas Sensing Film**. 2022 , 7,	
525	Boosting the Photothermal Conversion Efficiency of MXene Film by Porous Wood for Light-driven Soft Actuators. 2022 , 138013	
524	Dopamine Monomer Functionalized Ti3C2 Nanosheets and Their Anticorrosion Improvement for Waterborne Epoxy Coatings. 2022 ,	O
523	Two-dimensional (2D) MXene Nanomaterials: Synthesis, Mechanism, and Multifunctional Applications in Microwave Absorption.	11

522	Delaminated V2C MXene Nanostructures Prepared via LiF Salt Etching for Electrochemical Applications.	1
521	MXene as Emerging Low Dimensional Material in Modern Energy and Bio Application: A Review. 74, 109-154	
520	Research on Carbon Foam Image Segmentation Based on Deep Learning. 2022, 2022, 1-10	
519	Surface-Termination GroupsITuning to Improve the Lithium-Ion-Storage Performance of Ti3C2Tx MXene. 2022 , 12, 1005	1
518	MXene Saturable Absorbers in Mode-Locked Fiber Laser. 2100709	О
517	Surface termination effects on the terahertz-range optical responses of two-dimensional MXenes: Density functional theory study. 2022 , 32, 103917	
516	Smart fire-warning materials and sensors: Design principle, performances, and applications. 2022 , 150, 100690	5
515	Revealing structural, mechanical, and electronic properties of M4C3 (M = Sc, Ti, Zr, Mo, Hf, and W) MXene monolayers based on first-princi. 2022 , 32, e00713	O
514	Aramid nanofiber-induced assembly of graphene nanosheets toward highly thermostable and freestanding films for electromagnetic interference shielding. 2022 , 160, 107063	O
513	Lightweight and textured Ni@Cu-encapsulated carbon tube with outstanding electromagnetic interference shielding performance. 2022 , 228, 109636	1
512	Flexible and fire safe sandwich structured composites with superior electromagnetic interference shielding properties. 2022 , 160, 107070	5
511	Electron energy-loss spectra of functionalized titanium and zirconium MXene monolayers, including excitonic effects. 2022 , 169, 110881	
510	MXene-based materials for advanced nanogenerators. 2022 , 101, 107556	3
509	Interlayer decoration of expanded graphite by polyimide resins for preparing highly thermally conductive composites with superior electromagnetic shielding performance. 2022 , 198, 1-10	O
508	Chitin-derived-carbon nanofibrous aerogel with anisotropic porous channels and defective carbon structures for strong microwave absorption. 2022 , 450, 137943	1
507	Low infrared emitter from Ti3C2T MXene towards highly-efficient electric/solar and passive radiative heating. 2023 , 133, 32-40	1
506	Recent Progress in MXene and Graphene based Nanocomposites for Microwave Absorption and EMI Shielding. 2022 , 104143	О
505	Recent progress on multifunctional electromagnetic interference shielding polymer composites. 2022 ,	1

504	Molybdenum Nitride Porous Prisms with a Strong Plasmon Resonance Effect in the Visible Region for Surface-Enhanced Raman Spectroscopy. 2022 , 13, 6777-6782	1
503	A Janus-structured Fe3O4-PDMS/CNT/Cu composite film for extreme-environmental electromagnetic interference shielding. 2022 , 132892	
502	MXene based nanocomposite films. 20220049	2
501	MXene Film Prepared by Vacuum-Assisted Filtration: Properties and Applications. 2022 , 12, 1034	0
500	MXenes: promising 2D memristor materials for neuromorphic computing components. 2022,	4
499	Nonionic waterborne polyurethane/polypyrrole/silver nanowires coating film with high-efficient electromagnetic interference shielding. 2022 , 804, 139882	0
498	Engineering hierarchical MXenes-based nanoarchitecture as superior nanoenhancer for fire-safe BMI resin. 2022 , 602, 154305	1
497	Ti2CO2/Ti2CF2 van der Waals heterostructure with robust Schottky barriers under electric fields. 2022 , 602, 154313	
496	Flexible aramid nanofiber/Ag nanowires/graphene nanosheets composite films with sandwich structure for high-performance electromagnetic interference shielding and Joule heating. 2022 , 923, 166401	0
495	Octopus sucker-inspired hierarchical structure MXene@carbon nanotubes enhancing the mechanical properties and fire safety of thermoplastic polyurethane composites through the interfacial engineering. 2022, 450, 138184	0
494	Controllable seeding of nitrogen-doped carbon nanotubes on three-dimensional Co/C foam for enhanced dielectric loss and microwave absorption characteristics. 2022 , 450, 138160	7
493	Strong, flexible, and highly conductive cellulose nanofibril/PEDOT:PSS/MXene nanocomposite films for efficient electromagnetic interference shielding.	1
492	3d Urchintlike Covo/Mxene Nanosheet Composites for Enhanced Detection Signal of Nitrite.	
491	Modeling and Optimum Design of Carbon Nanotube/Polyvinyl Alcohol Hybrid Nanofibers as Electromagnetic Interference Shielding Material.	
490	All-MXene Thermoelectric Nanogenerator. 2022 , 101129	0
489	Variety of ZIF-8/MXene-Based Lightweight Microwave-Absorbing Materials: Preparation and Performances of ZnO/MXene Nanocomposites. 2022 , 126, 13847-13853	1
488	Wood-Based Composites with High Electromagnetic Interference Shielding Effectiveness and Ultra-Low Reflection. 2022 , 12, 1117	
487	Strong Holocellulose-Based Nanopaper with a Sandwich-Like Structure for Effective Electromagnetic Shielding.	

486	In Situ Surface Restraint-Induced Synthesis of Transition-Metal Nitride Ultrathin Nanocrystals as Ultrasensitive SERS Substrate with Ultrahigh Durability. 2022 , 16, 13123-13133	1
485	Sandwich-Structured Surface Coating of a Silver-Decorated Electrospun Thermoplastic Polyurethane Fibrous Film for Excellent Electromagnetic Interference Shielding with Low Reflectivity and Favorable Durability.	1
484	Fundamentals of MXene synthesis. 2022 , 1, 601-614	14
483	A Highly CO-Tolerant Anode Pt/Ti3C2Tx-CNT Hybrid Catalysts for PEMFC.	O
482	Multifunctional MXene/Aramid Nanofiber Composite Films for Efficient Electromagnetic Interference Shielding and Repeatable Early Fire Detection. 2022 , 7, 29161-29170	1
481	Oxidation-Resistant MXene-Based Melamine Foam with Ultralow-Percolation Thresholds for Electromagnetic-Infrared Compatible Shielding.	O
480	Synthesis of Large-Area MXenes with High Yields through Power-Focused Delamination Utilizing Vortex Kinetic Energy. 2202748	1
479	Adjustable core-sheath architecture of polyaniline-decorated hollow carbon nanofiber nanocomposites with negative permittivity for superb electromagnetic interference shielding.	2
478	Flexible Sandwich-Structured Silicone Rubber/MXene/Fe3O4 Composites for Tunable Electromagnetic Interference Shielding. 2022 , 61, 11766-11776	0
477	Microskeleton Magnetic Nanofiller Composite with Highly Reliable Superhydrophobic Protection for Long-Lived Electromagnetic Interface Shielding. 2022 , 14, 37039-37050	0
476	Smart and flexible CNTs@MXene heterostructure-decorated cellulose films with excellent electrothermal/photothermal conversion and EMI shielding performances. 2022 ,	2
475	Dopants versus defects: Intense confrontation of nitrogen-doped Ti3C2Tx for enhanced electromagnetic interference shielding. 2022 , 101301	0
474	Generation of cost-effective MXene@polydopamine-decorated chitosan nanofibrous wound dressing for promoting wound healing. 2022 , 213055	2
473	Multifunctional metallic cotton fabric: effect of coating methods and PVA pretreatment.	
472	In-situ doping nickel single atoms in two-dimensional MXenes analogue support for room temperature NO2 sensing.	1
471	MXenes Thin Films: From Fabrication to Their Applications. 2022 , 27, 4925	1
470	Ultra-compact MXene fibers by continuous and controllable synergy of interfacial interactions and thermal drawing-induced stresses. 2022 , 13,	7
469	Flexible carbon fiber-based composites for electromagnetic interference shielding.	Ο

468	Prediction of surface termination preference of out-of-plane ordered double-transition metal MXenes (o-MXenes) from first-principles calculations. 2022 , 2321, 012012	
467	Wearable Fiber-Based Supercapacitors Enabled by Additive-Free Aqueous MXene Inks for Self-Powering Healthcare Sensors.	О
466	Rheology-Guided Assembly of a Highly Aligned MXene/Cellulose Nanofiber Composite Film for High-Performance Electromagnetic Interference Shielding and Infrared Stealth. 2022 , 14, 36060-36070	5
465	A Mini Review on Recent Advances in MXene Based Electrochemical Wearable Sensing Devices.	1
464	A Ti3C2Tx-carbon black-acrylic epoxy coating for 304SS bipolar plates with enhanced corrosion resistant and conductivity. 2022 ,	О
463	Absorption-Dominant, Low-Reflection Multifunctional Electromagnetic Shielding Material Derived from Hydrolysate of Waste Leather Scraps. 2022 , 14, 38077-38089	1
462	Multifunctional Ti3C2TX MXene/Aramid nanofiber/Polyimide aerogels with efficient thermal insulation and tunable electromagnetic wave absorption performance under thermal environment. 2022 , 243, 110161	1
461	Robust double-layered ANF/MXene-PEDOT:PSS Janus films with excellent multi-source driven heating and electromagnetic interference shielding properties.	6
460	Bridging Sheet Size Controls Densification of MXene Films for Robust Electromagnetic Interference Shielding. 2022 , 105001	
459	Ti3C2Tx MXene Nanolaminates with Ionic Additives for Enhanced Gas-Sensing Performance. 2022 , 5, 11997-12005	3
458	Nanoarchitectonics of integrated impedance gradient MXene/PPy/polyester composite fabric for enhanced microwave absorption performances. 2022 , 107163	0
457	Highly Crystalline Graphene Foams Based on Capillarity and Deintercalation Sewing. 2022, 34, 7424-7433	
456	Large-Area Ultrastrong and Stiff Layered MXene Nanocomposites by Shear-Flow-Induced Alignment of Nanosheets. 2022 , 16, 12013-12023	0
455	One-dimensional metallic, magnetic, and dielectric nanomaterials-based composites for electromagnetic wave interference shielding.	O
454	Recent Advancements on Photothermal Conversion and Antibacterial Applications over MXenes-Based Materials. 2022 , 14,	5
453	Electric-field assisted ultrafast synthesis of Ti 3 SiC 2 MAX phase.	
452	Facile synthesis of Ti3C2 MXene-modified Bi2.15WO6 nanosheets with enhanced reactivity for photocatalytic reduction of Cr(VI). 2022 , 33, 103722	
451	Ultra-sensitive and flexible electronic skin from nanocellulose/AgNWs hydrogel films with highly transparent, antibacterial and electromagnetic shielding properties. 2022 , 228, 109679	O

450	Skeleton designable SGP/EA resin composites with integrated thermal conductivity, electromagnetic interference shielding, and mechanical performances. 2022 , 229, 109686	0
449	Gradient structure silicone rubber composites for selective electromagnetic interference shielding enhancement and low reflection. 2022 , 229, 109688	1
448	Bioinspired nanocomposite films with graphene and MXene. 2022 , 12, 100117	
447	Recent progress of Ti3C2Tx-based MXenes for fabrication of multifunctional smart textiles. 2022 , 29, 101612	O
446	One-pot in-situ hydrothermal synthesis of ternary In2S3/Nb2O5/Nb2C Schottky/S-scheme integrated heterojunction for efficient photocatalytic hydrogen production. 2022 , 628, 500-512	2
445	Synthesis of fluorine free MXene through lewis acidic etching for application as electrode of proton supercapacitors. 2022 , 926, 166903	1
444	Graphene-mediated dense integration of Ti3C2Tx MXene monoliths for compact energy storage: Balancing kinetics and packing density. 2022 , 604, 154565	О
443	Thermodynamics for the non-conventional synthesizing of out-of-plane ordered double-transition metal B12Iand B13IMAX phases (o-MAX): A high throughput linear programing first-principles calculation. 2023, 134, 81-88	O
442	Wearable and high-performance piezoresistive sensor based on nanofiber/sodium alginate synergistically enhanced MXene composite aerogel. 2023 , 451, 138586	3
441	Highly conductive calcium ion-reinforced MXene/sodium alginate aerogel meshes by direct ink writing for electromagnetic interference shielding and Joule heating. 2023 , 135, 213-220	1
440	Solution Printable Multifunctional Polymer-Based Composites for Smart Electromagnetic Interference Shielding with Tunable Frequency and On-Off Selectivities.	О
439	Flexible MXene/Graphene oxide films with long-lasting electromagnetic interference shielding performance. 2022 ,	o
438	In situ grown two-dimensional TiO2/Ti3CN MXene heterojunction rich in Ti3+ species for highly efficient photoelectrocatalytic CO2 reduction. 2022 , 139392	О
437	Vibrationally-resolved absorption and fluorescence spectra of chemically modified 2D hexagonal boron nitride quantum dots. 2022 , 806, 140025	O
436	A multi-scale MXene coating method for preparing washable conductive cotton yarn and fabric. 2022 , 188, 115653	О
435	Self-Limited ultraviolet laser sintering of liquid metal particles for th-Thick flexible electronics devices. 2022 , 223, 111189	1
434	Corrosion protection of PPy-Ti3C2-modifed epoxy zinc-rich coatings in dilute NaCl solution. 2022 , 172, 107148	0
433	Ultra-thin metal composites for electromagnetic interference shielding. 2022 , 246, 110269	1

432	Zirconia-decorated V2CT MXene electrodes for supercapacitors. 2022 , 55, 105721	О
431	MXene as charge reservoir promotes the thermoelectric performance of layered metal selenide SnSe2. 2022 , 241, 118369	O
430	In situ synthesis of MXene/Ag nanocomposites based flexible SERS substrates on PDMS for detection on fruit surfaces. 2022 , 654, 130077	0
429	Sandwich-like high-efficient EMI shielding materials based on 3D conductive network and porous microfiber skeleton. 2022 , 655, 130163	o
428	Ti3C2Tx as electron-hole transfer mediators to enhance AgBr/BiOBr Z heterojunction photocatalytic for the degradation of Tetrabromobisphenol A: Mechanism Insight. 2022 , 319, 121913	0
427	Heterogeneous photo-Fenton process over magnetically recoverable MnFe2O4/MXene hierarchical heterostructure for boosted degradation of tetracycline. 2022 , 33, 104449	1
426	Towards an ultra-long lifespan Li-CO2: electron structure and charge transfer pathway regulation on hierarchical architecture. 2023 , 451, 138953	0
425	Fabric-based superhydrophobic MXene@ polypyrrole heater with superior dual-driving energy conversion. 2023 , 629, 508-521	1
424	Heterogeneous N-doped carbon composite NiSe2HeSe double-shell hollow nanorods for tunable and high-efficient microwave attenuation. 2023 , 201, 491-503	1
423	Clipping electron transport and polarization relaxation of Ti3C2Tx based nanocomposites towards multifunction. 2023 , 201, 371-380	5
422	Time-difference blow-spinning to a flexible dual-scale multilayer fabric for highly efficient electromagnetic interference shielding. 2022 , 10, 14141-14150	0
421	Polyoxometalate intercalated MXene with enhanced electrochemical stability.	1
420	Molecular engineering guided dielectric resonance tuning in derived carbon materials. 2022 , 10, 12257-12265	1
419	An ultralight and thermally conductive Ti3C2Tx MXeneBilver nanowire cellular composite film for high-performance electromagnetic interference shielding. 2022 , 10, 14169-14179	O
418	3D printing lamellar Ti3C2Tx MXene/graphene hybrid aerogels for enhanced electromagnetic interference shielding performance. 2022 , 12, 24980-24987	0
417	A fabric-based superhydrophobic ACNTs/Cu/PDMS heater with an excellent electrothermal effect and deicing performance.	O
416	Biaxial stress and functional groups (T = O, F, and Cl) tuning the structural, mechanical, and electronic properties of monolayer molybdenum carbide. 2022 , 24, 17862-17869	1
415	Oxidation-Resistant Vitamin C/Mxene Foam Via Surface Hydrogen Bonding for Stable Electromagnetic Interference Shielding in Air Ambient.	O

414	Industrial applications of MXene nanocomposites. 2022, 481-503	1
413	Interface Coupling Strategy for Mxene-Wrapped Sic/C Nanofibers with Excellent Electromagnetic Wave Absorption and Photothermal Conversion.	O
412	Universal Strategies for in Situ Probing and Manipulating the Electrified Interfacial Water Adsorption Dynamics.	O
411	Manipulating the crack path through the surface functional groups of MXenes. 2022 , 14, 14169-14177	O
410	MXene-Based Nanocomposite Photocatalysts for Wastewater Treatment. 2022, 53-81	1
409	A synergistic route of heterointerface and metal single-atom configurations towards enhancing microwave absorption. 2023 , 452, 139430	O
408	Synergistic photocatalytic-photothermal contribution enhanced by recovered Ag+ ions on MXene membrane for organic pollutant removal. 2023 , 320, 122009	0
407	Cellulose nanofiber/MXene/FeCo composites with gradient structure for highly absorbed electromagnetic interference shielding. 2023 , 452, 139471	2
406	Valence-switchable and biocatalytic vanadium-based MXene nanoplatform with photothermal-enhanced dual enzyme-like activities for anti-infective therapy. 2023 , 451, 138985	1
405	Dynamics of Photoexcitations in Ti3C2Tz, Mo2Ti2C3Tz, and Nb2CTz 2D MXenes. 2022 ,	O
404	Thin and Flexible Silver/Polymer Composite Film based on Metal-Organic Decomposition for High-performance EMI Shielding in Electronic Packaging Application. 2022 ,	0
403	Design and verification of a new electromagnetic shielding material suitable for QFP packaging. 2022 ,	O
402	N-Doped Honeycomb-like Ag@N-Ti3C2Tx Foam for Electromagnetic Interference Shielding. 2022 , 12, 2967	0
401	Graphene Oxide/Carbon Tube Composite Films with Tunable Porous Structures for Electromagnetic Interference Shielding. 2022 , 5, 13509-13518	O
400	Electric Field Guided Fast and Oriented Assembly of MXene into Scalable Pristine Hydrogels for Customized Energy Storage and Water Evaporation Applications. 2204622	1
399	Stable Correlated 4d 2 SrMoO 3 Films Epitaxially Coated on Al 2 O 3 for Electromagnetic Shielding and Transparent Conductors. 2200893	O
398	Molten salt dynamic sealing synthesis of MAX phases (Ti3AlC2, Ti3SiC2 et al.) powder in air. 2022,	0
397	Dielectric properties and electromagnetic wave absorbing performance of single-source-precursor-derived carbon-rich NbC-SiC-C nanocomposites.	O

396	MXene-Reinforced Liquid Metal/Polymer Fibers via Interface Engineering for Wearable Multifunctional Textiles. 2022 , 16, 14490-14502	1
395	Deep Learning-Enabled MXene/PEDOT:PSS Acoustic Sensor for Speech Recognition and Skin-Vibration Detection. 2200140	О
394	Recent Advances in 2D-MXene Based Nanocomposites for Optoelectronics. 2200556	4
393	Printable Aligned Single-Walled Carbon Nanotube Film with Outstanding Thermal Conductivity and Electromagnetic Interference Shielding Performance. 2022 , 14,	1
392	Transparent and Flexible Electromagnetic Interference Shielding Materials by Constructing Sandwich AgNW@MXene/Wood Composites.	3
391	Three dimensional Ti3C2Tx and rGO hybrid supported Pt catalyst for the high performance hydrogen evolution reaction. 1-6	O
390	Fast and High-Yield Anhydrous Synthesis of Ti 3 C 2 T \times MXene with High Electrical Conductivity and Exceptional Mechanical Strength. 2203767	2
389	High-temperature stability in air of Ti3C2Tx MXene-based composite with extracted bentonite. 2022 , 13,	1
388	Electrically conductive porous Ti3C2T x MXene-polymer composites from high internal phase emulsions (HIPEs). 2022 , 9, 044004	О
387	Highly Flexible Fabrics/Epoxy Composites with Hybrid Carbon Nanofillers for Absorption-Dominated Electromagnetic Interference Shielding. 2022 , 14,	1
386	Overcoming the Limitations of MXene Electrodes for Solution-Processed Optoelectronic Devices. 2206377	5
385	Engineering the electronic structure on MXenes via multidimensional component interlayer insertion for enhanced electromagnetic shielding. 2022 ,	Ο
384	Surface Structural Features of Two-Dimensional Layered Materials Ti3C2Tx (T = OH, O, F) Investigated by Infrared and Raman Spectroscopy. 2022 , 89, 644-651	О
383	Ultrathin, flexible, and oxidation-resistant MXene/graphene porous films for efficient electromagnetic interference shielding.	1
382	Recent Advancement in Rational Design Modulation of MXene: A Voyage from Environmental Remediation to Energy Conversion and Storage.	1
381	Carbon Nanotube-Fastened Graphene Composites with Bubble-Induced Multireflections for Electromagnetic Interference Shielding with Water Repellence. 2022 , 5, 12926-12934	Ο
380	Porous nickellinc ferrite/polyaniline/polyimide composite based on improved impedance matching for electromagnetic microwave absorption.	О
379	Research Progress on Two-Dimensional Layered MXene/Elastomer Nanocomposites. 2022 , 14, 4094	Ο

378	Three-Dimensional Electrochromic Soft Photonic Crystals Based on MXene-Integrated Blue Phase Liquid Crystals for Bioinspired Visible and Infrared Camouflage.	7
377	Three-Dimensional Electrochromic Soft Photonic Crystals Based on MXene-Integrated Blue Phase Liquid Crystals for Bioinspired Visible and Infrared Camouflage.	O
376	MXenes for CO 2 Reduction and H 2 Generation. 2022 , 187-219	0
375	Efficient microwave absorption with Vn+1CnT MXenes. 2022 , 101073	1
374	Large Area and High-Efficiency MXeneBilicon Solar Cells by Organic Enhanced Dispersity and Work Function. 2200743	0
373	Nitrogen-Doped Ti3C2 MXene Quantum Dots/1D CdS Nanorod Heterostructure Photocatalyst of Highly Efficient Hydrogen Evolution. 2022 , 5, 11540-11552	1
372	X-Band Dielectric Characterization and Microwave Absorption Characteristics of Polyaniline Loaded Poly Vinyl Butyral (PVB).	0
371	Rational Design of Yolk Core-Shell Structure MnO-Co@C Nanospheres for High-Performance Microwave Absorption. 2022 , 12, 1405	О
370	Ti-based MXenes for Energy Storage Applications: Structure, Properties, Processing Parameters and Stability. 2022 , 11, 093008	0
369	Advanced Ti 3 C 2 T x MXene-modified cement nanocomposites toward high efficiency electromagnetic functional materials for green buildings.	O
368	Three-dimensional bamboo-like amorphous N/S co-doped carbon nanotubes encapsulated with Cu nanoparticles/carbon fiber heterostructures for boosting electromagnetic wave absorbing properties. 2022 ,	0
367	Nb2CTx MXene Cathode for High-Capacity Rechargeable Aluminum Batteries with Prolonged Cycle Lifetime.	5
366	Interfacial friction of vdW heterostructures affected by in-plane strain.	0
365	Field-induced orientational switching produces vertically aligned Ti3C2Tx MXene nanosheets. 2022 , 13,	2
364	Hydrogen-Bonded Organic Framework for High-Performance Lithium/Sodium-Iodine Organic Batteries.	1
363	Tunable Ti3C2Tx MXene-Derived TiO2 Nanocrystals at Controlled pH and Temperature.	2
362	EMercaptoethanol-Enabled Long-Term Stability and Work Function Tuning of MXene. 2200057	О
361	Maximizing the ion accessibility and high mechanical strength in nanoscale ion channel MXene electrodes for high-capacity zinc-ion energy storage. 2022 ,	4

360	Removing Roadblocks and Opening New Opportunities for MXenes. 2022,	O
359	Emerging surface strategies for porous materials-based phase change composites. 2022 , 5, 3225-3259	O
358	Modulation of MoSe2 & amp; MnFe2O4@MnO2 nano-architectures for microwave absorption properties via single- and bilayer method. 2022 ,	O
357	Covalent functionalization of MXenes for tribological purposes - a critical review. 2022 , 102792	O
356	The Effective Surface Metallization of Hollow Glass Microspheres for Flexible Electromagnetic Shielding Film. 2022 , 37, 779-786	0
355	Hydrogen-Bonded Organic Framework for High-Performance Lithium/Sodium-Iodine Organic Batteries.	O
354	Graphene and MXene-based porous structures for multifunctional electromagnetic interference shielding.	1
353	Multifunctional AgNWs@MXene/AgNFs electromagnetic shielding composites for flexible and highly integrated advanced electronics. 2022 , 230, 109753	O
352	MXene-MnO2-CoNi layered double hydroxides//activated carbon flexible asymmetric supercapacitor. 2022 , 55, 105668	1
351	Multifunctional non-woven fabrics based on interfused MXene fibers. 2022 , 223, 111207	1
35 ¹	Multifunctional non-woven fabrics based on interfused MXene fibers. 2022 , 223, 111207 Magnetic carbon nanotubes-based microwave absorbents: Review and perspective. 2022 , 291, 117198	0
350	Magnetic carbon nanotubes-based microwave absorbents: Review and perspective. 2022 , 291, 117198 Bulk to Low Dimensional 2D Thermoelectric Materials: Latest Theoretical Research and Future	0
35° 349	Magnetic carbon nanotubes-based microwave absorbents: Review and perspective. 2022 , 291, 117198 Bulk to Low Dimensional 2D Thermoelectric Materials: Latest Theoretical Research and Future View. 2022 , 571-588 Multifunctional, Superhydrophobic and Highly Elastic MXene/Bacterial Cellulose Hybrid Aerogels	0
350 349 348	Magnetic carbon nanotubes-based microwave absorbents: Review and perspective. 2022, 291, 117198 Bulk to Low Dimensional 2D Thermoelectric Materials: Latest Theoretical Research and Future View. 2022, 571-588 Multifunctional, Superhydrophobic and Highly Elastic MXene/Bacterial Cellulose Hybrid Aerogels Enabled via Silylation. Covalent Surface Modifications of Bifunctional Two-dimensional Metal Carbide MXenes as Sulfur	O O 1
350 349 348 347	Magnetic carbon nanotubes-based microwave absorbents: Review and perspective. 2022, 291, 117198 Bulk to Low Dimensional 2D Thermoelectric Materials: Latest Theoretical Research and Future View. 2022, 571-588 Multifunctional, Superhydrophobic and Highly Elastic MXene/Bacterial Cellulose Hybrid Aerogels Enabled via Silylation. Covalent Surface Modifications of Bifunctional Two-dimensional Metal Carbide MXenes as Sulfur Hosts for SodiumBulfur Batteries. Ultralight biomass-derived carbon fibre aerogels for electromagnetic and acoustic noise mitigation.	0 0 1
350 349 348 347 346	Magnetic carbon nanotubes-based microwave absorbents: Review and perspective. 2022, 291, 117198 Bulk to Low Dimensional 2D Thermoelectric Materials: Latest Theoretical Research and Future View. 2022, 571-588 Multifunctional, Superhydrophobic and Highly Elastic MXene/Bacterial Cellulose Hybrid Aerogels Enabled via Silylation. Covalent Surface Modifications of Bifunctional Two-dimensional Metal Carbide MXenes as Sulfur Hosts for SodiumBulfur Batteries. Ultralight biomass-derived carbon fibre aerogels for electromagnetic and acoustic noise mitigation. 2022, 10, 22771-22780 Structure and properties of polymer/two-dimensional nanomaterials studied via molecular	0 0 1 0

342	MAX Phases and MXenes. 2022 ,	O
341	Ultrathin, flexible, and high-strength polypyrrole/Ti3C2Tx film for wide-band gigahertz and terahertz electromagnetic interference shielding.	1
340	Robust, Transparent, and Conductive AgNW/ MXene Composite Polyurethane Self-healing film for Electromagnetic Interference Shielding.	1
339	Toward strong X-band-electromagnetic-wave-absorbing materials: Polyimide/carbon nanotubes composite aerogel with radial needle-like porous structure.	O
338	Multifunctional Waterborne Polyurethane Nanocomposite Films with Remarkable Electromagnetic Interference Shielding, Electrothermal and Solarthermal Performances.	О
337	Ti3C2 MXene Membranes for Gas Separation: Influence of Heat Treatment Conditions on D-Spacing and Surface Functionalization. 2022 , 12, 1025	O
336	Ultralight and Resilient Bicontinuous Si 3 N 4 /SiC Nanowire Network for Tunable and Highly Efficient Electromagnetic Wave Absorption in Extreme Conditions. 2201553	O
335	Ultrathin Cellulose Nanofiber Assisted Ambient-Pressure-Dried, Ultralight, Mechanically Robust, Multifunctional MXene Aerogels. 2207969	3
334	Stabilizing Ti3C2Tx in a Water Medium under Multiple Environmental Conditions by Scavenging Oxidative Free Radicals.	1
333	Graphite Nanosheet-Based Carbon Foams for Electromagnetic Interference Shielding.	O
332	Tuning the Self-Assembled Morphology of Ti3C2Tx MXene-Based Hybrids for High-Performance Electromagnetic Interference Shielding. 2022 , 14, 49158-49170	0
331	Applications of MXene-Containing Polypyrrole Nanocomposites in Electrochemical Energy Storage and Conversion.	2
330	Biodegradable, Flexible Transparent Ordered Ag NWs Micromesh Conductor for Electrical Heater and Electromagnetic Interference Shielding Applications.	1
329	Correlating electronic properties with M-site composition in solid solution Ti y Nb2-y CT x MXenes.	O
328	Electrospun Polyvinylidene Fluoride Nanofibers with Embedded Fe3O4 Nanoparticles and Conductive Poly(3,4-ethylenedioxythiophene) Shells for Electromagnetic Interference Shielding. 2022 , 5, 15711-15719	1
327	Enhanced Gas Sensing Performance of ZnO/Ti3C2Tx MXene Nanocomposite. 2022 , 13, 1710	1
326	Shielding Effectiveness of Zeolite: Chopped Strands Composites for Radar and Wider Frequency Applications.	О
325	The pull of the MXene vortex. 2022 , 17, 1025-1025	O

324	Flexible Carbon Dots-Intercalated MXene Film Electrode with Outstanding Volumetric Performance for Supercapacitors. 2209918	3
323	An All-in-One, Bioderived, Air-Permeable, and Sweat-Stable MXene Epidermal Electrode for Muscle Theranostics. 2022 , 16, 17168-17178	1
322	Strongly Modulated Exfoliation and Functionalization of MXenes with Rationally Designed Groups in Polymer: A Theoretical Study.	0
321	Polymer Coatings Based on Polyisobutylene, Polystyrene and Poly(styrene-block-isobutylene-block-styrene) for Effective Protection of MXenes. 2022 , 12, 1477	O
320	3D Porous Structure in MXene/PANI Foam for a High-Performance Flexible Pressure Sensor. 2204806	1
319	Advanced MXene-Based Micro- and Nanosystems for Targeted Drug Delivery in Cancer Therapy. 2022 , 13, 1773	1
318	New Horizons for MXenes in Biosensing Applications. 2022 , 12, 820	3
317	Insight into morphology-sensitive microwave absorption properties of biocarbon/MnFe2O4 composites.	О
316	Fabrication Strategy of MXenes through Ionic-Liquid-Based Microemulsions toward Supercapacitor Electrodes.	1
315	Nacre-Mimetic Hierarchical Architecture in Polyborosiloxane Composites for Synergistically Enhanced Impact Resistance and Ultra-Efficient Electromagnetic Interference Shielding.	О
314	Robust Bioinspired MXeneHemicellulose Composite Films with Excellent Electrical Conductivity for Multifunctional Electrode Applications.	3
313	Facile Fabrication of PEDOT:PSS-Based Free-Standing Conducting Film for Highly Efficient Electromagnetic Interference Shielding. 2200554	O
312	Emergence of MXene and MXene P olymer Hybrid Membranes as Future- Environmental Remediation Strategies. 2203527	1
311	Metal single atom doped 2D materials for photocatalysis: Current status and future perspectives.	O
310	Bioactive inorganic compound MXene and its application in tissue engineering and regenerative medicine. 2022 ,	О
309	Scalable Assembly of High Quality Graphene Films Via Electrostatic Repulsion Aligning. 2206101	1
308	Bicontinuous, High-Strength, and Multifunctional Chemical-Cross-Linked MXene/Superaligned Carbon Nanotube Film.	5
307	Facile preparation of Ti3C2Tx sheets by selectively etching in a H2SO4/H2O2 mixture. 10,	O

306	Non-Isothermal Crystallization Kinetics of Polyether-Ether-Ketone Nanocomposites and Analysis of the Mechanical and Electrical Conductivity Performance. 2022 , 14, 4623	O
305	Recent progress on hybrid fibrous electromagnetic shields: Key protectors of living species against electromagnetic radiation. 2022 , 5, 3807-3868	Ο
304	Constructing hierarchical Ti3SiC2 layer and carbon nanotubes on SiC fibers for enhanced electromagnetic wave absorption. 2022 ,	O
303	MXenes: Advances in the synthesis and application in supercapacitors and batteries.	O
302	Rapid determination of SARS-CoV-2 nucleocapsid proteins based on 2D/2D MXene/PBiOCl/Ru(bpy)32+ heterojunction composites to enhance electrochemiluminescence performance. 2022, 1234, 340522	O
301	Design and Properties of Antimicrobial Biomaterials Surfaces. 2202073	O
300	Highly anisotropic metallized wood obtained by filling basswood channels with low-melting-point Sn-Bi alloy. 2022 , 189, 115864	O
299	Highly stable few-layer V2CTx MXene/Carbon nanotube structure with restrained restacking for lithium ion storage. 2023 , 630, 502-511	O
298	Designing a Ti3C2Tx MXene with long-term antioxidant stability for high-performance anti-corrosion coatings. 2023 , 202, 20-30	O
297	All 3D printing lithium metal batteries with hierarchically and conductively porous skeleton for ultrahigh areal energy density. 2023 , 54, 304-312	O
296	Oxidation-resistant vitamin C/MXene foam via surface hydrogen bonding for stable electromagnetic interference shielding in air ambient. 2023 , 610, 155396	O
295	Aging of 2D MXene nanoparticles in air: An XPS and TEM study. 2023, 610, 155351	O
294	Enhanced pseudocapacitive energy storage and thermal stability of Sn2+ ion-intercalated molybdenum titanium carbide (Mo2TiC2) MXene. 2022 , 12, 31923-31934	O
293	Lightweight and Flexible PAN@PPy/MXene Films with Outstanding Electromagnetic Interference Shielding and Joule Heating Performance.	1
292	Experimental design of composite films with thermal management and electromagnetic shielding properties based on polyethylene glycol and MXene. 2023 , 202, 1-12	0
291	High orientation Fe-Si-Al membrane through torque model and magnetic field design for noise suppressor. 2023 , 287, 116125	O
290	Facile fabrication of flexible and ultrathin self-assembled Ti3C2T /bacterial cellulose composite films with multifunctional electromagnetic shielding and photothermal conversion performances. 2023 , 454, 140288	О
289	Humidity sensing based strategy for in situ probing and manipulating electrified interfacial water adsorption dynamics. 2023 , 454, 140219	O

288	High-strength MXene sheets through interlayer hydrogen bonding for self-healing flexible pressure sensor. 2023 , 453, 139823	5
287	INVESTIGATION OF THE FEATURES OF THE SURFACE STRUCTURE OF TWODIMENSIONAL LAYERED MATERIALS Ti3C2Tx (T 则F) BY INFRARED SPECTROSCOPY AND RAMAN SPECTROSCOPY METHODS. 2022 , 89, 477-484	O
286	Tuning the Work Function of Ti3C2Tx MXene by Molecular Doping without Changing its Surface Functional Groups. 2480-2490	О
285	Influence of surface termination groups on electrochemical charge storage of MXene electrodes.	O
284	Universal Ligands for Dispersion of Two-Dimensional MXene in Organic Solvents.	1
283	2D Transition Metal Carbides (MXenes) for Applications in Electrocatalysis. 2022 , 165-198	O
282	Modulation of electrical and optical properties of doping controlled SnO2 thin-film double layers.	О
281	A Multifunctional Flexible Electronic Skin for Dynamic Thermal Radiation Regulation and Electromagnetic Interference Shielding.	1
280	Two-Dimensional Half-Metallic and Semiconducting Lanthanide-Based MXenes. 2022, 7, 40929-40940	O
279	Tuning the electromagnetic shielding mechanism with nitrogen-doped graphene aerogels.	O
279 278	Tuning the electromagnetic shielding mechanism with nitrogen-doped graphene aerogels. Simultaneously tuning interlayer spacing and termination of MXenes by Lewis-basic halides. 2022, 13,	2
	Simultaneously tuning interlayer spacing and termination of MXenes by Lewis-basic halides. 2022 ,	
278	Simultaneously tuning interlayer spacing and termination of MXenes by Lewis-basic halides. 2022 , 13,	2
278	Simultaneously tuning interlayer spacing and termination of MXenes by Lewis-basic halides. 2022, 13, Ultrafast Spectroscopy of Plasmons and Free Carriers in 2D MXenes. 2208659 Significantly Enhanced Electromagnetic Interference Shielding Performances of Epoxy	3
278 277 276	Simultaneously tuning interlayer spacing and termination of MXenes by Lewis-basic halides. 2022, 13, Ultrafast Spectroscopy of Plasmons and Free Carriers in 2D MXenes. 2208659 Significantly Enhanced Electromagnetic Interference Shielding Performances of Epoxy Nanocomposites with Long-Range Aligned Lamellar Structures. 2022, 14, Electroless plating silver nanoparticles mixed in oxidized microcrystalline cellulose for microwave	2 3
278 277 276 275	Simultaneously tuning interlayer spacing and termination of MXenes by Lewis-basic halides. 2022, 13, Ultrafast Spectroscopy of Plasmons and Free Carriers in 2D MXenes. 2208659 Significantly Enhanced Electromagnetic Interference Shielding Performances of Epoxy Nanocomposites with Long-Range Aligned Lamellar Structures. 2022, 14, Electroless plating silver nanoparticles mixed in oxidized microcrystalline cellulose for microwave absorption applications. Construction of ternary Ag/Ti3C2/TiO2 photocatalysts for rhodamine B degradation under visible	2 3
278 277 276 275	Simultaneously tuning interlayer spacing and termination of MXenes by Lewis-basic halides. 2022, 13, Ultrafast Spectroscopy of Plasmons and Free Carriers in 2D MXenes. 2208659 Significantly Enhanced Electromagnetic Interference Shielding Performances of Epoxy Nanocomposites with Long-Range Aligned Lamellar Structures. 2022, 14, Electroless plating silver nanoparticles mixed in oxidized microcrystalline cellulose for microwave absorption applications. Construction of ternary Ag/Ti3C2/TiO2 photocatalysts for rhodamine B degradation under visible light radiation. 2022, 134, 113201 Insights into electronic and magnetic properties of MXenes: From a fundamental perspective. 2022,	2 3 2 0

270	Recent advances in 2D metal carbides and nitrides (MXenes): synthesis and biological application.	0
269	The synthesis of high purity Ti3AlC2 MAX phase via molten salt method. 2023 , 34, 103920	O
268	MXene-incorporated 1D/2D nano-carbons for electromagnetic shielding: A review. 2023 , 203, 542-560	0
267	Optimized electron/ion transport by constructing radially oriented channels in MXene hybrid fiber electrodes for high-performance supercapacitors at low temperatures.	1
266	High electromagnetic absorption ratio in TiB2/AZ80 composite. 2023, 37, 101447	O
265	Multifunctional MXene sediment-based composite film for electromagnetic interference shielding and joule heating. 2023 , 37, 101432	O
264	MXene-decorated carbonized jute composite for high-performance electromagnetic interference shielding. 2023 , 22, 658-667	0
263	Theoretical prediction of superconductivity in two-dimensional MXenes of molybdenum carbides. 2022 , 25, 580-589	O
262	Electrically aligned Ti3C2Tx MXene composite with multilayered gradient structure for broadband microwave absorption. 2023 , 203, 706-716	0
261	Blade-coated Ti3C2T MXene films for pseudocapacitive energy storage and infrared stealth. 2023 , 131, 109587	O
260	Cu and Fe bimetallic heterostructure nanoparticles supported by carbon nanotube for multilayer structure electromagnetic interference shielding composite. 2023 , 305, 116543	0
259	3D printed smart glove with pyramidal MXene/Ecoflex composite-based toroidal triboelectric nanogenerators for wearable human-machine interaction applications. 2023 , 106, 108110	O
258	A review of recent progress in 2D MXenes: Synthesis, properties, and applications. 2023 , 132, 109634	0
257	Perspectives for electromagnetic radiation protection with MXenes. 2023 , 204, 17-25	1
256	A review on the recent advances in composite membranes for CO2 capture processes. 2023 , 307, 122752	0
255	Conductive MXene composites with liquid metal for high-performance electromagnetic interference shielding. 2023 , 295, 127184	O
254	Next generation 2D materials for anodes in battery applications. 2023 , 556, 232256	O
253	Synthesis and characterization MXene-Ferrite nanocomposites and its application for dying and shielding. 2023 , 148, 110319	O

252	Progress and roadmap for graphene films in electromagnetic interference shielding. 2023, 2, 11-38	0
251	Fire-resistant MXene composite aerogels for effective oil/water separation. 2023, 11, 109127	O
250	Construction of core-shell BN-OH@Fe3O4@PAn nanocomposite with ultra-wide microwave absorption and efficiency thermal management. 2023 , 936, 168174	0
249	A synergistic strategy for SiC/C nanofibers@MXene with core-sheath microstructure toward efficient electromagnetic wave absorption and photothermal conversion. 2023 , 613, 155998	O
248	Strongly-coupled magnetic nanospheres@trimetallic LDH hooding with thin MXenes veil: Sandwiched ternary nanostructure towards forging fire-safe EP with low toxicity. 2023 , 612, 155904	O
247	A rational design of titanium-based heterostructures as electrocatalyst for boosted conversion kinetics of polysulfides in Li-S batteries. 2023 , 633, 432-440	O
246	3D urchinlike CoVO/MXene nanosheet composites for enhanced detection signal of nitrite. 2023 , 378, 133207	O
245	Recent advancements in electromagnetic interference shielding of polymer and mxene nanocomposites. 2023 , 62, 19-53	2
244	Emerging trends in niobium, vanadium, and molybdenum based MXenes applications. 1-22	0
243	Metal Ions Confined in Periodic Pores of MOFs to Embed Single-Metal Atoms within Hierarchically Porous Carbon Nanoflowers for High-Performance Electromagnetic Wave Absorption. 2210456	0
242	2D MXene-Based Biosensing: A Review. 2205249	2
241	Carbon Nanotubes: Smart Materials for the Active Elimination of Electromagnetic Interference. 2022 , 46, 1749-1760	0
240	Applications of MXenes in human-like sensors and actuators.	2
239	Best practices for correlating electrical conductivity with broadband EMI shielding in binary filler-based conducting polymer composites. 2022 , 140528	1
238	Ultralight Hierarchically Structured RGO Composite Aerogels Embedded with MnO2/Ti3C2Tx for Efficient Microwave Absorption. 2022 , 38, 14733-14744	O
237	Recent Progress of Research into Conductive Nanomaterials for Use in Electromagnetic Interference Shields. 2022 , 31, 120-127	O
236	Ultrastrong MXene films via the synergy of intercalating small flakes and interfacial bridging. 2022 , 13,	0
235	MXene-Based Ink Design for Printed Applications. 2022 , 12, 4346	Ο

234	Conductive microsphere monolayers enabling highly conductive pressure-sensitive adhesive tapes for electromagnetic interference shielding.	О
233	Toward Smart Sensing by MXene. 2206126	2
232	Nickel oxide sprinkled in-situ grown hierarchal graphitic jungle anchored feathery aluminium foam: A novel material for remarkable electromagnetic waves absorption. 2022 , 100301	О
231	3D Printing Deep-trap Hierarchical Architecture-based Non-contact Sensor for Multi-direction Motion Monitoring. 2022 , 108135	1
230	Towards Greener and More Sustainable Synthesis of MXenes: A Review. 2022 , 12, 4280	0
229	MXene-Coated Nickel Ion-Exchanged ZIF Skeleton-Cavity Layered Double Hydroxides for Supercapacitors.	O
228	Thickness-Independent Capacitive Performance of Holey Ti 3 C 2 T x Film Prepared through a Mild Oxidation Strategy. 2205947	2
227	Extreme environment-bearable polyimide film with a three-dimensional Ag microfiber conductive network for ultrahigh electromagnetic interference shielding.	O
226	Highly Performant Electromagnetic Absorption at the X Band Based on Co@NCS/Ti3C2Tx Composites. 2022 , 14, 56213-56225	1
225	Conductive fabrics based on carbon nanotube/Ti3C2Tx MXene/polyaniline/liquid metal quaternary composites with improved performance of EMI shielding and joule heating. 2022 , 101476	O
224	Recent Advances in MXene-Based Aerogels: Fabrication, Performance and Application. 2211889	О
223	MXene-Based Nanomaterials for Biomedical Applications: Healthier Substitute Materials for the Future. 2200123	1
222	Synthesis of Multilayer Graphene with Controlled C Supply. 2201311	О
221	Lightweight MXene-Based Hybrid Aerogels with Ultrabroadband Terahertz Absorption and Anisotropic Strain Sensitivity.	O
220	Defect-induced dipole polarization engineering of electromagnetic wave absorbers: Insights and perspectives. 2022 , 110479	О
219	Excitonic Effects in the Optical Properties of Scandium and Hafnium MXene Semiconductors from First-Principles Calculations. 2200469	0
218	Hierarchical pomegranate-like MnO@N-doped carbon with enhanced conduction loss and interfacial polarization for tunable and broadband microwave absorption.	О
217	Electrically Tunable MXene Nanomechanical Resonators Vibrating at Very High Frequencies.	1

216 Research of Ferric Ion Regulation on a Polyimide/C-MXene Microcellular Composite Film. 2022, 38, 16156-16162

215	Multifunctional MXene/holey graphene films for electromagnetic interference shielding, Joule heating, and photothermal conversion. 2022 , 110477	O
214	Reinforced polyaniline nanocomposite nanofibers: cutting-edge potential. 2022, 61, 1088-1101	1
213	Ultralight and Highly Conductive Silver Nanowire Aerogels for High-Performance Electromagnetic Interference Shielding.	O
212	Wearable Energy Storage with MXene Textile Supercapacitors for Real World Use.	1
211	Two-Dimensional Janus MXene Inks for Versatile Functional Coatings on Arbitrary Substrates.	O
2 10	Polymer-derived SiOC reinforced with corelinell nanophase structure of ZrB2/ZrO2 for excellent and stable high-temperature microwave absorption (up to 900°C). 2023 , 13,	0
209	Constructing BaTiO3/TiO2@polypyrrole composites with hollow multishelled structure for enhanced electromagnetic wave absorbing properties. 2023 , 30, 581-590	O
208	Ultrafine cellulose nanocrystal-reinforced MXene biomimetic composites for multifunctional electromagnetic interference shielding.	О
207	Numerical Study of the Optical Response of \$text{ITO}\$-\$mathrm{In_{2}O_{3}}\$ Core-Shell Nanocrystals for Multispectral Electromagnetic Shielding. 2023 , 1-11	Ο
206	High-Entropy Enhanced Microwave Attenuation in Titanate Perovskites. 2210243	1
205	Efficient MXene/CNT electromagnetic shielding composite films with self-assembly multilayer structure. 2023 , 34,	O
204	Characterization the Electromagnetic Shielding Effectiveness of Biochar-based Materials. 2023, 1-1	О
203	Flexible and ultrathin dopamine modified MXene and cellulose nanofiber composite films with alternating multilayer structure for superior electromagnetic interference shielding performance. 2023 , 18,	O
202	Flexible, robust, sandwich structure polyimide composite film with alternative MXene and Ag NWs layers for electromagnetic interference shielding. 2023 ,	О
201	Ion-Selective Separation Using MXene-Based Membranes: A Review. 341-356	O
200	Recovery of oxidized two-dimensional MXenes through high frequency nanoscale electromechanical vibration. 2023 , 14,	О
199	Advances in the Chemical Stabilization of MXenes.	O

198	Enhanced Electromagnetic Shielding and Thermal Management Properties in MXene/Aramid Nanofiber Films Fabricated by Intermittent Filtration.	0
197	Nature-Inspired Interconnected Macro/Meso/Micro-Porous MXene Electrode. 2211199	0
196	Selective Etching of Ti3AlC2 MAX Phases Using Quaternary Ammonium Fluorides Directly Yields Ti3C2Tz MXene Nanosheets: Implications for Energy Storage.	0
195	Flexible Ag-Coated Carbon Nanofibers/Bacterial Cellulose Films for Electromagnetic Interface Shielding and Multifunctional Thermal Applications.	O
194	Self-Powered Nanofluidic Pressure Sensor with a Linear Transfer Mechanism. 2211613	0
193	Recent Escalations in MXenes: From Fundamental to Applications. 2023, 205-239	0
192	Recent advances in graphene aerogels as absorption-dominated electromagnetic interference shielding materials. 2023 ,	2
191	Structural engineering of double shells decoration for preparing a high-efficiency electromagnetic wave absorber. 2023 ,	0
190	Avant-Garde Polymer/Graphene Nanocomposites for Corrosion Protection: Design, Features, and Performance. 2023 , 4, 33-53	0
189	Hierarchically Flexible Polyamide Composite Films for Thermal Management and Electromagnetic Shielding.	O
188	Two-dimensional Hand FBX (X = O, S, Se, and Te) photocatalysts with ultrawide bandgap and enhanced photocatalytic performance for water splitting. 2023 , 13, 2301-2310	0
187	Ti3C2/Ni2P/triphenyl phosphite as antioxidative microwave absorbers with excellent photothermal property. 2023 , 457, 141275	1
186	Emerging MXene/cellulose composites: Design strategies and diverse applications. 2023, 458, 141402	0
185	A conformable, durable, adhesive welded fiber mate for on-skin strain sensing. 2023 , 457, 141233	O
184	10-Molybdo-2-vanadophosphoric acid derived (V) MoS2 microflowers @ V2CTx MXene designed 3D@2D nanoarchitecture for high-performance aqueous supercapacitors. 2023 , 59, 106447	0
183	Directional electromagnetic interference shielding of asymmetric structure based on dual-needle 3D printing. 2023 , 233, 109909	O
182	Emerging 2D MXene -based adsorbents for hazardous pollutants removal. 2023 , 549, 116314	0
181	Rational design of heterointerface between MoO2 and N-doped carbon with tunable electromagnetic interference shielding capacity. 2023 , 636, 492-500	O

180	Highly permeable and ultrastretchable E-textiles with EGaIn-superlyophilicity for on-skin health monitoring, joule heating, and electromagnetic shielding. 2023 , 108, 108194	0
179	Bulk substitution of F-terminations from Ti3C2Tx MXene by cation pillaring and gas hydrolysation. 2023 , 38, 100470	Ο
178	High thermally conductive, hydrophobic and small-thickness nanocomposite films with symmetrical double conductive networks exhibit ultra-high electromagnetic shielding performance. 2023 , 167, 107416	Ο
177	Synthesis of MXene Nano sheets and their modification for hydrogen sensing applications. 2022,	Ο
176	Graphene Oxide-Assisted Multiple Cross-Linking of MXene for Large-Area, High-Strength, Oxidation-Resistant, and Multifunctional Films. 2213357	2
175	Moir Superlattice MXene Nanosheets Constructed from Twisted Hexagon-Ti3AlC2 by Microwave-Assisted Lewis Molten Salt Etching: Implications for Structural Stability in Electrochemical Energy Storage. 2023 , 6, 677-684	O
174	Mo2TiC2 MXene-Supported Ru Clusters for Efficient Photothermal Reverse Waterlas Shift.	О
173	Broadband transparent and flexible silver mesh for efficient electromagnetic interference shielding and high-quality free-space optical communication.	Ο
172	Thermal and electrical transport conductivities of novel ordered double two-dimensional MXenes via density functional theory.	Ο
171	Advanced materials for smart devices. 2023 , 457-485	O
170	Green and scalable electrochemical routes for cost-effective mass production of MXenes for supercapacitor electrodes.	O
169	Ultrathin Wood-Derived Conductive Carbon Composite Film for Electromagnetic Shielding and Electric Heating Management. 2213431	1
168	Electrochemically modulated interaction of MXenes with microwaves.	1
167	Highly Flexible Ti3C2Tx MXene/Waterborne Polyurethane Membranes for High-Efficiency Terahertz Modulation with Low Insertion Loss. 2023 , 15, 7592-7601	O
166	Low-Voltage Driven Ionic Polymer-Metal Composite Actuators: Structures, Materials, and Applications. 2206135	0
165	Solution printable multifunctional polymer-based composites for smart electromagnetic interference shielding with tunable frequency and on on of ff selectivities. 2023 , 6,	O
164	Substrate engineering for wafer-scale two-dimensional material growth: strategies, mechanisms, and perspectives.	О
163	Multilayer Ultrathin MXene@AgNW@MoS2 Composite Film for High-Efficiency Electromagnetic Shielding. 2023 , 15, 5787-5797	O

162	Development of Electromagnetic-Wave-Shielding Polyvinylidene Fluoridelli3C2Tx MXenellarbon Nanotube Composites by Improving Impedance Matching and Conductivity. 2023 , 13, 417	O
161	One 3D aerogel wearable pressure sensor with ultrahigh sensitivity, wide working range, low detection limit for voice recognition and physiological signal monitoring.	O
160	Long-Term Stability Studies and Applications of Ti3C2Tx MXene. 2023, 2023, 1-12	О
159	Two-step thermal treatment of electrochemical graphene oxide films for high-performance electrical heating and electromagnetic interference shielding. 2023 , 618, 156669	O
158	Ni-intercalated Mo2TiC2Tx free-standing MXene for excellent gravimetric capacitance prepared via electrostatic self-assembly. 2023 , 61, 106662	O
157	Perfluoroctylsilane grafted Ti3C2X-based hydrogel liquid marble for controlled movement, self-assembly, light-induced release, and water evaporation system. 2023 , 35, 105529	O
156	Tough polyimide composites synergistically reinforced by carbon nanofiber-grafted carbon fiber and rGO for improved heat dissipation and electromagnetic interference shielding. 2023 , 149, 225-236	0
155	Q-switched and noise-like mode-locked fiber laser based on ternary transition-metal carbide Nb2AlC saturable absorber. 2023 , 162, 109237	O
154	CNTMXene Ultralight Membranes: Fabrication, Surface Nano/Microstructure, 2DBD Stacking Architecture, Ion-Transport Mechanism, and Potential Application as Interlayer for LiD2 Batteries.	O
153	Freestanding Foils of NbSe2 and Carbon Nanotubes for Efficient Electromagnetic Shielding. 2023 , 6, 3333-3343	O
152	Enabling the transition to ductile MAX phases and the exfoliation to MXenes via tuning the A element. 2023 , 106, 3765-3776	0
151	Impedance modeling for excluding contact resistance from cross-plane electronic conductivity measurement of anisotropic two-dimensional Ti3C2Tx MXenes. 2023 , 133, 065304	O
150	MXene Derivatives for Energy Storage and Conversions. 2201559	O
149	Flexible Triboelectric Tactile Sensor Based on a Robust MXene/Leather Film for HumanMachine Interaction. 2023 , 15, 13802-13812	O
148	Research Progress with Membrane Shielding Materials for Electromagnetic/Radiation Contamination. 2023 , 13, 315	O
147	Surface termination dependent optical characteristics of MXene nanoflakes. 2023, 29, 101447	O
146	Constructing the bonding between conductive agents and active materials/binders stabilizes silicon anode in Lithium-ion batteries. 2023 , 80, 23-31	О
145	Design of PDMS/SiO2@MXene composites with filoatable InterlayerIstructure for the electromagnetic shielding behavior improvement. 2023 , 461, 141853	O

144	Well-designed structure of sandwich-like composite films based on hollow polyaniline and MXene with enhanced electromagnetic wave absorption. 2023 , 194, 116299	0
143	Gallium-doped MXene/cellulose nanofiber composite membranes with electro/photo thermal conversion property for high performance electromagnetic interference shielding. 2023 , 464, 142565	O
142	Intelligent shielding material based on VO2 with tunable near-field and far-field electromagnetic response. 2023 , 464, 142596	O
141	Recent advances in MXene-based membrane for solar-driven interfacial evaporation desalination. 2023 , 464, 142508	O
140	A universal ratiometric method for Micro-RNA detection based on the ratio of electrochemical/electrochemiluminescence signal, and toehold-mediated strand displacement amplification. 2023 , 1257, 341119	0
139	Preparation of high electromagnetic interference shielding and humidity responsivity composite film through modified Ti3C2Tx MXene cross-linking with sodium alginate. 2023 , 236, 123939	Ο
138	MXenes: from past to future perspectives. 2023 , 463, 142351	O
137	Carbon-coated MXene nanofiber as a free-standing electrode for high-performance lithium-ion storage. 2023 , 451, 142289	O
136	Phase Inversion-Based foam hydrogels for highly efficient Solar-Powered interfacial desalination. 2023 , 464, 142409	O
135	Graphene/carbon fiber network constructed by co-carbonization strategy for functional integrated polyimide composites with enhanced electromagnetic shielding and thermal conductive properties. 2023 , 464, 142595	O
134	A review on MXene and itsItomposites for electromagnetic interference (EMI) shielding applications. 2023 , 208, 170-190	O
133	Iron carbide interface modulating for synergies of 3D-graphene-like and iron-coated Fe3O4 particles for high microwave absorption performance. 2023 , 945, 169283	О
132	Effects of Ti3C2Tx MXene on structure, morphology, fluorescence and temperature sensitive properties of Eu3+ doped 8YSZ powder. 2023 , 258, 119815	О
131	AgNWs/Ti3C2Tx MXene-based multi-responsive actuators for programmable smart devices. 2023 , 383, 133576	O
130	Graphite-ring-stacked carbon nanotubes synthesized during the rescue of Ti3C2Tx MXene for dual-peak electromagnetic wave absorption. 2023 , 945, 169342	O
129	Flexible and ultrathin GO@MXene sandwich-type multilayered film toward superior electromagnetic interference shielding in a wide gigahertz range of 3.95¶8.0 GHz. 2023, 946, 169338	O
128	Advances in MXenes synthesis and MXenes derived electrocatalysts for oxygen electrode in metal-air batteries: A review. 2023 , 292, 116400	0
127	Architecting fire safe hierarchical polymer nanocomposite films with excellent electromagnetic interference shielding via interface engineering. 2023 , 640, 179-191	O

126	Room-temperature prepared MXene foam via chemical foaming methods for high-capacity supercapacitors. 2023 , 945, 169279	O
125	Sandwich-structured Ti3C2Tx-MXene/reduced-graphene-oxide composite membranes for high-performance electromagnetic interference and infrared shielding. 2023 , 675, 121560	O
124	Hydrogen bonded interface self-assembled ZnFe2O4@PDA@Ti3C2TX MXene composites with three-dimensional core/shell/shell structure for ultrathin high-performance electromagnetic wave absorbers. 2023 , 945, 169372	0
123	Recent catalytic applications of MXene-based layered nanomaterials. 2023, 325, 138323	O
122	Insight into synergistic effect of Ti3C2 MXene and MoS2 on anti-photocorrosion and photocatalytic of CdS for hydrogen production. 2023 , 330, 122653	О
121	Simultaneously improving the EMI shielding performances and mechanical properties of CF/PEKK composites via MXene interfacial modification. 2023 , 154, 202-209	O
120	Molecular simulation study of 2D MXene membranes for organic solvent nanofiltration. 2023, 677, 121623	O
119	Designing hard wear-resistant conductors by introducing high-plasma-energy heterogeneous metals into transition metal nitrides. 2023 , 157, 213-219	O
118	Dielectric hagnetic bidirectional regulation of magnetic MXene for excellent microwave absorption performance. 2023 , 178, 111361	O
117	Advances in the synthesis and applications of 2D MXene-metal nanomaterials. 2023, 38, 102873	O
116	Sequentially bridged MXene platelets for strong high-temperature EM-IR bi-stealth sheets.	0
115	Investigations of microwave absorption performance of bi-layer absorber composed of FeWO4 & amp; BiVO4 nanocomposite powder in 2¶8 GHz. 2023 , 641, 1-14	O
114	Structure design of multi-layered ABS/CNTs composite foams for EMI shielding application with low reflection and high absorption characteristics. 2023 , 624, 157168	O
113	Highly effective electromagnetic interference shielding composites with solvent-dispersed uniformly aligned graphene nanosheets enabled by strong intrinsic diamagnetism under magnetic field. 2023 , 31, 100985	O
112	Stretchable MXene based films towards achieving balanced electrical, mechanical and energy storage properties. 2023 , 459, 141527	O
111	Fabricating Aptamer-functionalized Ti3C2 therapeutic nanoplatform for targeted chemo-photothermal therapy of cancer. 2023 , 226, 111656	1
110	Exploring efficient hydrogen evolution electrocatalysts of nonmetal atom doped Mo2CO2 MXenes by first-principles screening. 2023 , 25, 5056-5065	O
109	Synergistic DielectricMagnetic Enhancement via Phase-Evolution Engineering and Dynamic Magnetic Resonance. 2023 , 33, 2211298	O

108	X-ray Insights into Formation of D Functional Groups on MXenes: Two-Step Dehydrogenation of Adsorbed Water. 2023 , 23, 1401-1408	О
107	2D Transition Metal Carbides (MXenes) for Third Order Nonlinear Optics: Status and Prospects. 2200733	O
106	MXene polymeric nanoarchitectures mechanical, deformation, and failure mechanism: A review. 2023 , 62, 443-466	O
105	Surface and Interface Regulation of MXenes: Methods and Properties. 2201530	O
104	Multiferroic and ferroelectric phases revealed in 2D Ti3C2Tx MXene film for high performance resistive data storage devices. 2023 , 7,	O
103	MXene: fundamentals to applications in electrochemical energy storage. 2023 , 18,	O
102	Effect of annealing treatment on electromagnetic shielding effectiveness of double-layer FeSiBCuNb/Cu composite strips. 2023 , 34,	1
101	Optimization of multilayered electromagnetic shielding using mesh adaptive direct search.	O
100	Stretchable PEDOT:PSS/Li-TFSI/XSB Composite Films for Electromagnetic Interference Shielding. 2023 , 15, 8521-8529	O
99	Densely Packed Fiber Electrodes Composed of Liquid Crystalline MXenes for High-Areal-Density Supercapacitors. 2023 , 11,	O
98	3D Printed Integrated Gradient-Conductive MXene/CNT/Polyimide Aerogel Frames for Electromagnetic Interference Shielding with Ultra-Low Reflection. 2023 , 15,	O
97	Multifunctional Ti3C2Tx MXene/nanospheres/Ti3C2Tx MXene/thermoplastic polyurethane electrospinning membrane inspired by bean pod structure for EMI shielding and pressure sensing. 2023 , 353, 114226	O
96	Scalable production of bioinspired MXene/black phosphorene nanocoatings for hydrophobic and fire-safe textiles with tunable electromagnetic interference and exceeding thermal management. 2023 , 460, 141870	0
95	Assessing the Surface Chemistry of 2D Transition Metal Carbides (MXenes): A Combined Experimental/Theoretical 13C Solid State NMR Approach.	O
94	Cytocompatibility of Ti3C2Tx MXene with Red Blood Cells and Human Umbilical Vein Endothelial Cells and the Underlying Mechanisms. 2023 , 36, 347-359	O
93	An overview of 2D metal sulfides and carbides as Na host materials for Na-ion batteries. 2023 , 461, 141924	O
92	Flexible, Stretchable, and Transparent MXene Nanosheet/Thermoplastic Polyurethane Films for Multifunctional Heating and Electromagnetic Interference Shielding. 2023 , 6, 3395-3404	0
91	Graphitized and flexible porous textile updated from waste cotton for wearable electromagnetic interference shielding. 2023 , 207, 144-153	O

90	Enhancing the Chemical Stability of MXene Through Synergy of Hydrogen Bond and Coordination Bond in Aqueous Solution. 2023 , 7,	О
89	Distinct strategy for the improvement of conductivity and electromagnetic shielding properties of MWCNTs / PLA / PBS composites: Synergistic effects of double percolation structure and UV aging.	O
88	Tailoring carbon-based nanofiber microstructures for electromagnetic absorption, shielding, and devices.	0
87	Enhanced electromagnetic interference shielding performance of patterned AgNWs doped MXene films in X-band. 2023 , 98, 045001	O
86	Improved Mechanical Strength of Dicatechol Crosslinked MXene Films for Electromagnetic Interference Shielding Performance. 2023 , 13, 787	1
85	MXene Fiber-based Wearable Textiles in Sensing and Energy Storage Applications. 2023 , 24, 1167-1182	O
84	Covalent coupling induced-polarization relaxation in MXene-based terahertz absorber for realizing dual band absorption. 2023 , 461, 142049	0
83	Poly(thioether) grafted Ti3C2Tx MXenes: New dielectric elastomer nanocomposites with high area strain at low driving voltage. 2023 , 188, 111945	O
82	Hollow LDH cage covering with ultra-thin MXenes veil: Integrated micro-nano structure upon heat release suppression and toxic effluents elimination for polymer. 2023 , 461, 142035	0
81	Synthesis of Ti3AlC2 max phase under vacuum, its structural characterization and using for Ti3C2Tx MXene preparation. 2023 , 771, 139759	O
80	Polyvinylidene fluorideAn advanced smart polymer for electromagnetic interference shielding applicationsA novel review. 2023 , 34, 1781-1806	0
79	Control of the rheological properties of concentrated aqueous MXene sediment suspensions using polymeric additives. 2023 , 301, 357-370	O
78	Lightweight MXene/carbon composite foam with hollow skeleton for air-stable, high-temperature-resistant and compressible electromagnetic interference shielding. 2023 , 206, 375-382	0
77	Flexible Antiswelling Photothermal-Therapy MXene Hydrogel-Based Epidermal Sensor for Intelligent HumanMachine Interfacing. 2300299	O
76	The recent advance of precisely designed membranes for sieving. 2023, 34, 232003	0
75	Post-Ammonia-Treated V2CTx MXene at Different Pressures: Effects on Morphology, Electronic, and Optical Properties. 2023 , 127, 4609-4617	O
74	An infrared photothermoelectric detector enabled by MXene and PEDOT:PSS composite for noncontact fingertip tracking. 2023 , 9,	0
73	Improvement in alkali-resistance of basalt fiber-reinforced polymer by Ti 3 C 2 T X (MXene) modified matrix. 2023 , 44, 2581-2591	O

72	Synthesis of Ti3C2Tx/MnO2 composites for synergistic catalytic/photothermal-based bacterial inhibition. 2023 , 5, 2216-2225	О
71	Facile fabrication of magnetic-cobalt-nanoparticle-plated carbon aerogel by an electroless plating strategy.	О
70	Effect of Substitutional Oxygen on Properties of Ti 3 C 2 T x MXene Produced Using Recycled TiO 2 Source. 2201715	0
69	Fabrication of Ni-Encapsulated Carbon Tube/Poly(dimethylsiloxane) Composite Materials for Lightweight and Flexible Electromagnetic Interference Shielding Material. 2023 , 39, 3558-3568	o
68	Superflexible hybrid aerogel-based fabrics enable broadband electromagnetic wave management. 2023 , 462, 142169	0
67	Study on the electromagnetic wave absorption performance of Ti3C2 MXene with different etching states. 2023 , 58, 4824-4839	o
66	Research Progress of Electromagnetic Shielding Performance of MXene (Ti3C2Tx) Composites. 2023 , 621-635	0
65	Flexible Large-Area Graphene Films of 500000mm Thickness with High Carrier Mobility. 2023, 15,	o
64	Conformal Passivation of Self-Cleanable, Flexible, and Transparent Polytetrafluoroethylene Thin Films on Two-Dimensional MXene and Three-Dimensional Ag Nanowire Composite Electrodes. 2023 , 5, 1636-1649	0
63	The tannic acid-iron dynamic redox self-catalytic system mediated way to simple and rapidly fabricate a multifunctionally conductive hydrogel for wearable strain sensors.	О
62	Progress of high performance Ti3C2Tx MXene nanocomposite films for electromagnetic interference shielding. 2023 , 15, 5579-5597	o
61	Niche Applications of MXene Materials in Photothermal Catalysis. 2023 , 5, 492-510	О
60	A micro/nano-multiscale hierarchical structure strategy to fabricate highly conducting films for electromagnetic interference shielding and energy storage.	1
59	Magnetic fly ash@carbon microspheres for high-performance electromagnetic wave absorption. 2023 , 49, 19384-19391	O
58	Photo-response of water intercalated Ti3C2O2 MXene. 2023 , 25, 9522-9531	0
57	Retrospective on Exploring MXene-Based Nanomaterials: Photocatalytic Applications. 2023 , 28, 2495	О
56	Band Structure Engineering of MXenes for Low-Loss Visible Epsilon-Near-Zero Properties by First-Principles Calculation. 2201119	0
55	Strategies to break the trade-off between infrared transparency and conductivity. 2023 , 136, 101112	О

54	The Rise of MXene: A Wonder 2D Material, from Its Synthesis and Properties to Its Versatile Applications Comprehensive Review. 2023 , 381,	O
53	Flexible MXene-Based Composite Films for Multi-Spectra Defense in Radar, Infrared and Visible Light Bands. 2214223	O
52	Understanding and Controlling Photothermal Responses in MXenes. 2023, 23, 2677-2686	O
51	Achieving near-infrared-light-mediated switchable friction regulation on MXene-based double network hydrogels.	O
50	Fusing a machine learning strategy with density functional theory to hasten the discovery of 2D MXene-based catalysts for hydrogen generation. 2023 , 11, 8091-8100	O
49	Nanocarbon Nanocomposites of Polyaniline and Pyrrole for Electromagnetic Interference Shielding: Design and Effectiveness. 2022 , 61, 1988-2000	1
48	Advancing electrochemistry: Powering electromagnetic energy conversion. 2023, 7, 462-464	0
47	Ti3C2Tx MXene-Ferroferric Oxide/Carbon Nanotubes/Waterborne Polyurethane-Based Asymmetric Composite Aerogels for Absorption-Dominated Electromagnetic Interference Shielding. 2023 , 6, 4716-4725	O
46	Facile Tailoring of Surface Terminations of MXenes by Doping Nb Element: Toward Extraordinary Pseudocapacitance Performance. 2023 , 15, 15367-15376	O
45	Chemical scissorEhediated structural editing of layered transition metal carbides. 2023 , 379, 1130-1135	O
44	Multifunctional double-network Ti3C2Tx MXene composite hydrogels for strain sensors with effective electromagnetic interference and UV shielding properties. 2023 , 273, 125865	O
43	Biocompatible and Oxidation-Resistant Ti 3 C 2 T x MXene with Halogen-Free Surface Terminations. 2201579	O
42	MXene-Based Materials for Multivalent Metal-Ion Batteries. 2023, 9, 174	О
41	Flexible and Ultrathin Graphene/Aramid Nanofiber Carbonizing Films with Nacre-like Structures for Heat-Conducting Electromagnetic Wave Shielding/Absorption. 2023 , 15, 15872-15883	O
40	Fabrication and characterization of MXene/CuCr2O4 nanocomposite for diverse energy applications. 2023 , 24, 2668-2677	0
39	Two-Dimensional Optical Waveguides at Telecom Wavelengths Based on Organic Single-Crystal Microsheets of a Charge Transfer Complex. 2023 , 14, 3047-3056	O
38	Direct synthesis and chemical vapor deposition of 2D carbide and nitride MXenes. 2023 , 379, 1242-1247	O
37	Upgrading Electricity Generation and Electromagnetic Interference Shielding Efficiency via Phase-Change Feedback and Simple Origami Strategy. 2206835	O

36	A direct and clean route to MXenes. 2023 , 379, 1189-1190	O
35	Controlling the cell and surface architecture of cellulose nanofiber/PVA/Ti3C2T MXene hybrid cryogels for optimized permittivity and EMI shielding performance. 2023 , 228, 111855	O
34	Gas-sensing properties and applications of MXenes. 2023 , 48, 261-270	О
33	Synthesis and applications of MXene-based composites: a review. 2023 , 34, 262001	O
32	Interfacial Click Chemistry Enabled Strong Adhesion toward Ultra-Durable Crack-Based Flexible Strain Sensors.	0
31	Flexible and breathable 3D porous SSE/MXene foam towards impact/electromagnetic interference/bacteria multiple protection performance for intelligent wearable devices.	O
30	Weakly aligned Ti3C2Tx MXene liquid crystals: measuring residual dipolar coupling in multiple co-solvent systems.	O
29	Shearing-force-driven delamination of waste residue into oxidatively stable MXene composites for high-performance Si anode.	O
28	Super-Stretchable, Self-Healing 2D MXene-Based Composites for Thermal Management and Electromagnetic Shielding Applications.	0
27	Improving the Durability of Triboelectric Nanogenerator. 2023 , 1-37	O
26	Robust polyamide 66 composites with hybrid fillers for thermal management and electromagnetic shielding.	O
25	Construction of Bi2S3/Ti3C2Tx layered composites for highly efficient electromagnetic wave absorption. 2023 , 4, 101345	O
24	MXene/CNTs/Aramid Aerogels for Electromagnetic Interference Shielding and Joule Heating. 2023 , 6, 6141-6150	O
23	Self-Healing Liquid Metal Magnetic Hydrogels for Smart Feedback Sensors and High-Performance Electromagnetic Shielding. 2023 , 15,	O
22	In situ modification of MXene nanosheets with polyaniline nanorods for lightweight and broadband electromagnetic wave absorption. 2023 , 208, 311-321	0
21	Molten-salt etching synthesis of delaminatable MXenes.	O
20	Highly Ordered Thermoplastic Polyurethane/Aramid Nanofiber Conductive Foams Modulated by Kevlar Polyanion for Piezoresistive Sensing and Electromagnetic Interference Shielding. 2023 , 15,	О
19	Design and advanced manufacturing of electromagnetic interference shielding materials. 2023,	O

18	Asymmetrically Coordinated CuN 1 C 2 Single-Atom Catalyst Immobilized on Ti 3 C 2 T x MXene as Separator Coating for Lithium Bulfur Batteries.	O
17	Heterointerfaces via Decoration of Walnut Iron Tungstate with Bismuth Vanadate as high efficiency X-band microwave absorbing materials. 2023 , 102882	O
16	MXenes and MXene-based materials for removal of pharmaceutical compounds from wastewater: Critical review. 2023 , 228, 115919	O
15	Synergistic effects between carbon nanotube and anisotropy-shaped Ni in polyurethane sponge to improve electromagnetic interference shielding.	О
14	Regulating the Electrical and Mechanical Properties of TaS2 Films via van der Waals and Electrostatic Interaction for High Performance Electromagnetic Interference Shielding. 2023 , 15,	O
13	Effective Surface Modification of 2D MXene toward Thermal Energy Conversion and Management.	О
12	Research of NBR/G@Fe3O4 electromagnetic shielding composites. 2023, 34,	O
11	Manipulation of Impedance Matching toward 3D-Printed Lightweight and Stiff MXene-Based Aerogels for Consecutive Multiband Tunable Electromagnetic Wave Absorption.	О
10	Large-Area MetalBemiconductor Heterojunctions Realized via MXene-Induced Two-Dimensional Surface Polarization.	O
9	Ultrathin MXene assemblies approach the intrinsic absorption limit in the 0.5🛮 0 THz band.	O
8	Fe3O4 and Ag micro/nano coating for high-efficiency flame retardancy and electromagnetic interference shielding. 2023 , 181, 107563	O
7	Carbon foams with Fe-organic network-derived Fe3O4 for efficient electromagnetic shielding. 2023 , 127797	o
6	Antioxidant High-Conductivity Copper Pastes Based on CoreBhell Copper Nanoparticles for Flexible Printed Electronics.	0
5	Structural Electromagnetic Absorber Based on MoS 2 /PyC-Al 2 O 3 Ceramic Metamaterials.	O
4	Facile synthesis and enhanced electromagnetic interference shielding performance for porous magnetic microspheres / Ti3C2Tx MXene nanocomposite film. 2023 , 170237	O
3	Optical properties of in-plane chemically ordered i-MAX structures. 2023 , 25, 13665-13672	o
2	Highly Anisotropic Carbonized Wood as Electronic Materials for Electromagnetic Interference Shielding and Thermal Management.	0
1	Performance augmentation strategy of Parabolic trough collector by employing MXene-based solar absorbing coating. 2023 , 174, 971-982	O