Efficient electromagnetic interference shielding of lightweight graphene/polystyrene composite

DOI: 10.1039/c2jm32692b
Journal of Materials Chemistry, 2012, 22, 18772.

#	Paper	IF	Citations
471	Multifunctional Flexible Electromagnetic Interference Shielding Silver Nanowires/Cellulose Films with Excellent Thermal Management and Joule Heating Performances.		
470	Metal-Levelly Robust, Folding-Endurance and Highly Temperature-Stable MXene-Based Film with Engineered Aramid Nanofiber for Extreme-Condition Electromagnetic Interference Shielding Applications.		
469	Ultralight Graphene Foam/Conductive Polymer Composites for Exceptional Electromagnetic Interference Shielding.		
468	One-Pot Sintering Strategy for Efficient Fabrication of High-Performance and Multifunctional Graphene Foams.		
467	Ultralight and Highly Elastic Graphene/Lignin-Derived Carbon Nanocomposite Aerogels with Ultrahigh Electromagnetic Interference Shielding Performance.		
466	.		
465	Ultralight and Flexible Polyurethane/Silver Nanowire Nanocomposites with Unidirectional Pores for Highly Effective Electromagnetic Shielding.		
464	Engineering of High-Density Thin-Layer Graphite Foam-Based Composite Architectures with Superior Compressibility and Excellent Electromagnetic Interference Shielding Performance.		
463	Binary Strengthening and Toughening of MXene/Cellulose Nanofiber Composite Paper with Nacre-Inspired Structure and Superior Electromagnetic Interference Shielding Properties.		
462	Polymer/carbon based composites as electromagnetic interference (EMI) shielding materials. **2013**, 74, 211-232		743
461	Lightweight, multifunctional polyetherimide/graphene@Fe3O4 composite foams for shielding of electromagnetic pollution. *ACS Applied Materials & Interfaces*, **2013**, 5, 11383-91	9.5	451
460	Improved electromagnetic interference shielding effectiveness of light weight carbon foam by ferrocene accumulation. **2013**, 3, 4145		78
459	Using a non-covalent modification to prepare a high electromagnetic interference shielding performance graphene nanosheet/water-borne polyurethane composite. *Carbon*, **2013**, 60, 57-66	10.4	213
458	Effective improvement of the properties of light weight carbon foam by decoration with multi-wall carbon nanotubes. *Journal of Materials Chemistry A*, **2013**, 1, 5727	13	130
457	Facile preparation of lightweight microcellular polyetherimide/graphene composite foams for electromagnetic interference shielding. *ACS Applied Materials & Interfaces*, **2013**, 5, 2677-84	9.5	570
456	Electrical properties and electromagnetic interference shielding effectiveness of polypropylene/carbon fiber composite foams. *Carbon*, **2013**, 60, 379-391	10.4	381
455	Formation mechanism, electronic properties & microwave shielding by nano-structured polyanilines prepared by template free route using surfactant dopants. *Journal of Materials Chemistry A*, **2013**, 1, 8926	13	71

454	Electrophoretic Deposition of Foam Ni/CNT Composites and their Electromagnetic Interference Shielding Performance. **2013**, 461, 436-444		2
453	Preparation and properties of composites based on melamine-formaldehyde foam and nano-Fe3O4. *Journal of Applied Polymer Science*, **2013**, 130, 2688-2697	2.9	11
452	Fabrication of lightweight, flexible polyetherimide/nickel composite foam with electromagnetic interference shielding effectiveness reaching 103 dB. **2014**, 50, 537-550		12
451	Flexible graphene/polymer composite films in sandwich structures for effective electromagnetic interference shielding. *Carbon*, **2014**, 66, 67-76	10.4	409
450	Design of artificial nacre-like hybrid films as shielding to mitigate electromagnetic pollution. *Carbon* , **2014**, 75, 178-189	10.4	85
449	Nano-scale and micron-scale manganese dioxide vs corresponding paraffin composites for electromagnetic interference shielding and microwave absorption. **2014**, 51, 277-286		18
448	Synthesis of ferrofluid based nanoarchitectured polypyrrole composites and its application for electromagnetic shielding. **2014**, 143, 806-813		50
447	Electromagnetic Field Absorbing Polypropylene Nanocomposites with Tuned Permittivity and Permeability by Nanoiron and Carbon Nanotubes. **2014**, 118, 24784-24796		79
446	Cu–Ni alloy decorated graphite layers for EMI suppression. **2014**, 4, 23202		14
445	The Effect of Surface Chemistry of Graphene on Cellular Structures and Electrical Properties of Polycarbonate Nanocomposite Foams. **2014**, 53, 4697-4703		32
444	Interactive oxidation-reduction reaction for the in situ synthesis of graphene-phenol formaldehyde composites with enhanced properties. *ACS Applied Materials & Interfaces*, **2014**, 6, 4254-63	9.5	83
443	Multi-wall carbon nanotubes decorated with ZnO nanocrystals: mild solution-process synthesis and highly efficient microwave absorption properties at elevated temperature. *Journal of Materials Chemistry A*, **2014**, 2, 10540	13	341
442	Facile synthesis of Ag-reduced graphene oxide hybrids and their application in electromagnetic interference shielding. **2014**, 116, 25-32		26
441	Synthesis and Structural–Mechanical Property Characteristics of Graphene–Polymer Nanocomposites. **2014**, 335-375		5
440	Ultra-light carbon nanotube sponge as an efficient electromagnetic shielding material in the GHz range. **2014**, 8, 698-704		59
439	Lightweight polypropylene/stainless-steel fiber composite foams with low percolation for efficient electromagnetic interference shielding. *ACS Applied Materials & Interfaces*, **2014**, 6, 11091-100	9.5	236
438	Electromagnetic interference shielding of segregated polymer composite with an ultralow loading of in situ thermally reduced graphene oxide. **2014**, 25, 145705		104
437	Facile method to synthesize silver nanoparticles on the surface of hollow glass microspheres and their microwave shielding properties. **2014**, 4, 18645-18651		10

436	Highly ordered porous carbon/wax composites for effective electromagnetic attenuation and shielding. *Carbon*, **2014**, 77, 130-142	10.4	242
435	Novel ternary Fe3O4@polyaniline/polyazomethine/polyetheretherketone crosslinked hybrid membranes: fabrication, thermal properties and electromagnetic behaviours. **2014**, 4, 11159		18
434	Facile fabrication of ultrathin graphene papers for effective electromagnetic shielding. *Journal of Materials Chemistry C*, **2014**, 2, 5057-5064	7.1	138
433	Interfacial engineering of carbon nanofiber-graphene-carbon nanofiber heterojunctions in flexible lightweight electromagnetic shielding networks. *ACS Applied Materials & Interfaces*, **2014**, 6, 10516-23	9.5	163
432	Lightweight and flexible reduced graphene oxide/water-borne polyurethane composites with high electrical conductivity and excellent electromagnetic interference shielding performance. *ACS Applied Materials & Interfaces*, **2014**, 6, 10667-78	9.5	194
431	Thermal conductivity and electromagnetic shielding effectiveness of composites based on Ag-plating carbon fiber and epoxy. *Journal of Applied Polymer Science*, **2015**, 132, n/a-n/a	2.9	13
430	Carbon nanohorn and graphene nanoplate based polystyrene nanocomposites for superior electromagnetic interference shielding applications. *Journal of Applied Polymer Science*, **2015**, 132, n/a-n/a	2.9	23
429	Graphene Nanocomposites for Electromagnetic Induction Shielding. **2015**, 345-372		1
428	Ultrathin graphene: electrical properties and highly efficient electromagnetic interference shielding. *Journal of Materials Chemistry C*, **2015**, 3, 6589-6599	7.1	457
427	Highly efficient electromagnetic interference shielding using graphite nanoplatelet/poly(3,4-ethylenedioxythiophene)□poly(styrenesulfonate) composites with enhanced thermal conductivity. **2015**, 5, 43765-43771		82
426	Carbon nanostructure composite for electromagnetic interference shielding. **2015**, 84, 1099-1116		65
425	Fe3O4 nanopearl decorated carbon nanotubes stemming from carbon onions with self-cleaning and microwave absorption properties. **2015**, 5, 54175-54181		15
424	Tailored electrical conductivity, electromagnetic shielding and thermal transport in polymeric blends with graphene sheets decorated with nickel nanoparticles. **2015**, 17, 14922-30		62
423	Preparation of Honeycomb SnO□Foams and Configuration-Dependent Microwave Absorption Features. *ACS Applied Materials & Interfaces*, **2015**, 7, 26217-25	9.5	142
422	Electromagnetic interference shielding properties of polymer-grafted carbon nanotube composites with high electrical resistance. *Carbon*, **2015**, 85, 363-371	10.4	82
421	Cellulose composite aerogel for highly efficient electromagnetic interference shielding. *Journal of Materials Chemistry A*, **2015**, 3, 4983-4991	13	200
420	One-pot synthesis of CoFe2O4/graphene oxide hybrids and their conversion into FeCo/graphene hybrids for lightweight and highly efficient microwave absorber. *Journal of Materials Chemistry A*, **2015**, 3, 5535-5546	13	420
419	Polyimide/graphene composite foam sheets with ultrahigh thermostability for electromagnetic interference shielding. **2015**, 5, 24342-24351		176

418	Facile, green and affordable strategy for structuring natural graphite/polymer composite with efficient electromagnetic interference shielding. **2015**, 5, 22587-22592		42
417	Tailoring the interface in graphene/thermoset polymer composites: A critical review. **2015**, 70, A17-A34		67
416	Mesocarbon microsphere composites with Fe3O4 nanoparticles for outstanding electromagnetic interference shielding effectiveness. **2015**, 5, 43279-43289		28
415	Polymer nanocomposite foam filled with carbon nanomaterials as an efficient electromagnetic interference shielding material. **2015**, 5, 43036-43057		103
414	Tuning three-dimensional textures with graphene aerogels for ultra-light flexible graphene/texture composites of effective electromagnetic shielding. *Carbon*, **2015**, 93, 151-160	10.4	171
413	Graphene/Polymer Nanocomposites as Microwave Absorbers. **2015**, 307-343		5
412	Polymer/Graphite Nanocomposites: Physical Features, Fabrication and Current Relevance. **2015**, 54, 750-770		40
411	Tailored graphene based polyurethane composites for efficient electrostatic dissipation and electromagnetic interference shielding applications. **2015**, 5, 97349-97358		63
410	Single wall carbon nanohorn (SWCNH)/graphene nanoplate/poly(methyl methacrylate) nanocomposites: a promising material for electromagnetic interference shielding applications. **2015**, 5, 70482-70493		15
409	Sulfur doped graphene/polystyrene nanocomposites for electromagnetic interference shielding. **2015**, 133, 1267-1275		98
408	Electrically conductive and electromagnetic interference shielding of polyethylene composites with devisable carbon nanotube networks. *Journal of Materials Chemistry C*, **2015**, 3, 9369-9378	7.1	189
407	Microwave-Assisted Synthesis of Boron and Nitrogen co-doped Reduced Graphene Oxide for the Protection of Electromagnetic Radiation in Ku-Band. *ACS Applied Materials & Interfaces*, **2015**, 7, 19831-42	9.5	121
406	A comparative study of structure and electromagnetic interference shielding performance for silver nanostructure hybrid polyimide foams. **2015**, 5, 65283-65296		80
405	Electromagnetic interference shielding based on highly flexible and conductive graphene laminate. **2015**, 51, 1350-1352		12
404	Ultralightweight silver nanowires hybrid polyimide composite foams for high-performance electromagnetic interference shielding. *ACS Applied Materials & Interfaces*, **2015**, 7, 563-76	9.5	161
403	Electrically conductive polycarbonate/carbon nanotube composites toughened with micron-scale voids. *Carbon*, **2015**, 82, 195-204	10.4	51
402	Structured Reduced Graphene Oxide/Polymer Composites for Ultra-Efficient Electromagnetic Interference Shielding. **2015**, 25, 559-566		802
401	Magnetic and conductive graphene papers toward thin layers of effective electromagnetic shielding. *Journal of Materials Chemistry A*, **2015**, 3, 2097-2107	13	162

400	Barium ferrite decorated reduced graphene oxide nanocomposite for effective electromagnetic interference shielding. **2015**, 17, 1610-8		150
399	A Unique Double Percolated Polymer Composite for Highly Efficient Electromagnetic Interference Shielding. *Macromolecular Materials and Engineering*, **2016**, 301, 1232-1241	3.9	47
398	Step-by-Step Strategy for Constructing Multilayer Structured Coatings toward High-Efficiency Electromagnetic Interference Shielding. **2016**, 3, 1500476		53
397	High-Performance Epoxy Nanocomposites Reinforced with Three-Dimensional Carbon Nanotube Sponge for Electromagnetic Interference Shielding. **2016**, 26, 447-455		470
396	Lightweight and Anisotropic Porous MWCNT/WPU Composites for Ultrahigh Performance Electromagnetic Interference Shielding. **2016**, 26, 303-310		499
395	Piezoresistive behavior of porous carbon nanotube-thermoplastic polyurethane conductive nanocomposites with ultrahigh compressibility. **2016**, 108, 011904		69
394	Graphene oxide/cellulose aerogels nanocomposite: Preparation, pyrolysis, and application for electromagnetic interference shielding. **2016**, 150, 172-9		100
393	Highly Effective Electromagnetic Interference Shielding Materials based on Silver Nanowire/Cellulose Papers. *ACS Applied Materials & Interfaces*, **2016**, 8, 13123-32	9.5	171
392	Fabrication of a stretchable electromagnetic interference shielding silver nanoparticle/elastomeric polymer composite. **2016**, 6, 52250-52254		22
391	Lightweight flexible polyurethane/reduced ultralarge graphene oxide composite foams for electromagnetic interference shielding. **2016**, 6, 27517-27527		53
390	Lightweight and Easily Foldable MCMB-MWCNTs Composite Paper with Exceptional Electromagnetic Interference Shielding. *ACS Applied Materials & Interfaces*, **2016**, 8, 10600-8	9.5	147
389	Facile preparation of lightweight high-strength biodegradable polymer/multi-walled carbon nanotubes nanocomposite foams for electromagnetic interference shielding. *Carbon*, **2016**, 105, 305-313	10.4	277
388	Polymer Nanocomposites. **2016**,		9
387	Poly (3, 4-ethylene dioxythiophene) laminated reduced graphene oxide composites for effective electromagnetic interference shielding. *Journal of Alloys and Compounds*, **2016**, 682, 52-60	5.7	33
386	Electrical Conductivity and Percolation Behavior of Polymer Nanocomposites. **2016**, 51-82		3
385	Exceptional microwave absorption in soft polymeric nanocomposites facilitated by engineered nanostructures. *Journal of Materials Chemistry C*, **2016**, 4, 4954-4966	7.1	41
384	Flexible thin SiC fiber fabrics using carbon nanotube modification for improving electromagnetic shielding properties. **2016**, 104, 68-75		34
383	Electromagnetic interference shielding with 2D transition metal carbides (MXenes). **2016**, 353, 1137-40		2432

382	Ordered multilayer film of (graphene oxide/polymer and boron nitride/polymer) nanocomposites: An ideal EMI shielding material with excellent electrical insulation and high thermal conductivity. *Composites Science and Technology*, **2016**, 136, 104-110	8.6	94
381	Polycarbonate Composites Containing Carbon Encapsulated Brick-Like Fe_3O_4 Nanoparticles as Efficient Microwave Absorbers with a Large Bandwidth. **2016**, 1, 3829-3838		6
380	Cellulosic Graphene Biocomposites for Versatile High-Performance Flexible Electronic Applications. **2016**, 2, 1600245		35
379	Electromagnetic shielding effectiveness and mechanical properties of graphite-based polymeric films. **2016**, 122, 1		17
378	Light-Weight Silver Plating Foam and Carbon Nanotube Hybridized Epoxy Composite Foams with Exceptional Conductivity and Electromagnetic Shielding Property. *ACS Applied Materials & Interfaces*, **2016**, 8, 24131-42	9.5	121
377	The Preparation of Compressible and Fire-Resistant Sponge-Supported Reduced Graphene Oxide Aerogel for Electromagnetic Interference Shielding. **2016**, 11, 2586-93		28
376	Segregated poly(vinylidene fluoride)/MWCNTs composites for high-performance electromagnetic interference shielding. *Composites Part A: Applied Science and Manufacturing*, **2016**, 90, 606-613	8.4	92
375	Graphene sheets stacked polyacrylate latex composites for ultra-efficient electromagnetic shielding. **2016**, 3, 075012		10
374	Thermally Annealed Anisotropic Graphene Aerogels and Their Electrically Conductive Epoxy Composites with Excellent Electromagnetic Interference Shielding Efficiencies. *ACS Applied Materials & Interfaces*, **2016**, 8, 33230-33239	9.5	198
373	Towards efficient electromagnetic interference shielding performance for polyethylene composites by structuring segregated carbon black/graphite networks. **2016**, 34, 1490-1499		21
372	Electrical and electromagnetic interference shielding characteristics of GNP/UHMWPE composites. **2016**, 49, 195302		61
371	Transparent conductive Ta/Al/Ta-grid electrode for optoelectronic and electromagnetic interference shielding applications. **2016**, 612, 350-357		18
370	Largely enhanced electrical properties of polymer composites via the combined effect of volume exclusion and synergy. **2016**, 6, 51900-51907		8
369	Rigid thermosetting epoxy/multi-walled carbon nanotube foams with enhanced conductivity originated from a flow-induced concentration effect. **2016**, 6, 37710-37720		13
368	Tuneable cellular-structured 3D graphene aerogel and its effect on electromagnetic interference shielding performance and mechanical properties of epoxy composites. **2016**, 6, 56589-56598		43
367	Electromagnetic interference shielding performance of waterborne polyurethane composites filled with silver nanoparticles deposited on functionalized graphene. **2016**, 385, 436-444		71
366	Carbon foam decorated with silver particles and in situ grown nanowires for effective electromagnetic interference shielding. **2016**, 51, 7991-8004		27
365	3D network porous polymeric composites with outstanding electromagnetic interference shielding. *Composites Science and Technology*, **2016**, 125, 22-29	8.6	93

364	Ultrathin carbon foams for effective electromagnetic interference shielding. *Carbon*, **2016**, 100, 375-385	10.4	138
363	Graphene nanosheets/BaTiO3 ceramics as highly efficient electromagnetic interference shielding materials in the X-band. *Journal of Materials Chemistry C*, **2016**, 4, 371-375	7.1	142
362	Compressible Graphene-Coated Polymer Foams with Ultralow Density for Adjustable Electromagnetic Interference (EMI) Shielding. *ACS Applied Materials & Interfaces*, **2016**, 8, 8050-7	9.5	338
361	Biomass-Derived Thermally Annealed Interconnected Sulfur-Doped Graphene as a Shield against Electromagnetic Interference. *ACS Applied Materials & Interfaces*, **2016**, 8, 9361-9	9.5	98
360	Microcellular graphene foam for improved broadband electromagnetic interference shielding. *Carbon*, **2016**, 102, 154-160	10.4	247
359	Phthalonitrile-Based Carbon Foam with High Specific Mechanical Strength and Superior Electromagnetic Interference Shielding Performance. *ACS Applied Materials & Interfaces*, **2016**, 8, 7422-30	9.5	139
358	High frequency millimetre wave absorbers derived from polymeric nanocomposites. **2016**, 84, 398-419		154
357	Electromagnetic response of magnetic graphene hybrid fillers and their evolutionary behaviors. *Journal of Materials Science: Materials in Electronics*, **2016**, 27, 2760-2772	2.1	5
356	Design and fabrication of long-carbon-fiber-reinforced polyamide-6/nickel powder composites for electromagnetic interference shielding and high mechanical performance. *Polymer Composites*, **2016**, 37, 2705-2718	3	10
355	Ultralight, super-elastic and volume-preserving cellulose fiber/graphene aerogel for high-performance electromagnetic interference shielding. *Carbon*, **2017**, 115, 629-639	10.4	163
354	A comparative study on electromagnetic interference shielding behaviors of chemically reduced and thermally reduced graphene aerogels. **2017**, 492, 112-118		30
353	Polydopamine decoration on 3D graphene foam and its electromagnetic interference shielding properties. **2017**, 493, 327-333		67
352	Ultralight Graphene Foam/Conductive Polymer Composites for Exceptional Electromagnetic Interference Shielding. *ACS Applied Materials & Interfaces*, **2017**, 9, 9059-9069	9.5	321
351	Assembling and nanocutting graphene/CNT sponge for improved lithium-ion batteries. **2017**, 23, 1329-1336		1
350	Three-dimensional printing of highly conductive polymer nanocomposites for EMI shielding applications. **2017**, 11, 112-118		97
349	Absorption modulation of FSS-polymer nanocomposites through incorporation of conductive nanofillers. **2017**, 123, 1		6
348	Electromagnetic interference shielding properties and mechanisms of chemically reduced graphene aerogels. **2017**, 412, 529-536		50
347	A high heat-resistance bioplastic foam with efficient electromagnetic interference shielding. *Chemical Engineering Journal*, **2017**, 323, 29-36	14.7	110

346	Graphite reinforced polyvinylidene fluoride composites an efficient and sustainable solution for electromagnetic pollution. **2017**, 123, 271-278		39
345	TiO2 hybrid polypropylene/nickel coated glass fiber conductive composites for highly efficient electromagnetic interference shielding. *Journal of Materials Science: Materials in Electronics*, **2017**, 28, 5725-5732	2.1	8
344	Advanced Nanostructured Materials in Electromagnetic Interference Shielding. **2017**, 241-320		10
343	Lightweight, multifunctional microcellular PMMA/Fe 3 O 4 @MWCNTs nanocomposite foams with efficient electromagnetic interference shielding. *Composites Part A: Applied Science and Manufacturing*, **2017**, 100, 128-138	8.4	154
342	Enhanced electromagnetic interference shielding behavior of Graphene Nanoplatelet/Ni/Wax nanocomposites. *Journal of Materials Chemistry C*, **2017**, 5, 6471-6479	7.1	42
341	Flexible, Ultrathin, and High-Efficiency Electromagnetic Shielding Properties of Poly(Vinylidene Fluoride)/Carbon Composite Films. *ACS Applied Materials & Interfaces*, **2017**, 9, 20873-20884	9.5	185
340	Few-layer graphene sheets/poly(vinylidene fluoride) composites prepared by a water vapor induced phase separation method. **2017**, 4, 045603		4
339	Segregated Hybrid Poly(methyl methacrylate)/Graphene/Magnetite Nanocomposites for Electromagnetic Interference Shielding. *ACS Applied Materials & Interfaces*, **2017**, 9, 14171-14179	9.5	222
338	One-Pot Sintering Strategy for Efficient Fabrication of High-Performance and Multifunctional Graphene Foams. *ACS Applied Materials & Interfaces*, **2017**, 9, 13323-13330	9.5	30
337	Flexible, thin films of graphene□polymer composites for EMI shielding. **2017**, 4, 035605		38
336	Single-source-precursor derived RGO/CNTs-SiCN ceramic nanocomposite with ultra-high electromagnetic shielding effectiveness. **2017**, 130, 83-93		64
335	EMI shielding effectiveness of graphene decorated with graphene quantum dots and silver nanoparticles reinforced PVDF nanocomposites. **2017**, 24, 861-882		49
334	Ultrathin flexible reduced graphene oxide/cellulose nanofiber composite films with strongly anisotropic thermal conductivity and efficient electromagnetic interference shielding. *Journal of Materials Chemistry C*, **2017**, 5, 3748-3756	7.1	188
333	Low percolation threshold and electromagnetic shielding effectiveness of nano-structured carbon based ethylene methyl acrylate nanocomposites. **2017**, 119, 41-56		98
332	The influence of gradient and sandwich configurations on the electromagnetic interference shielding performance of multilayered thermoplastic polyurethane/graphene composite foams. *Composites Science and Technology*, **2017**, 138, 209-216	8.6	119
331	Flexible, conductive, porous, fibrillar polymer□gold nanocomposites with enhanced electromagnetic interference shielding and mechanical properties. *Journal of Materials Chemistry C*, **2017**, 5, 1095-1105	7.1	83
330	Construction of three-dimensional graphene interfaces into carbon fiber textiles for increasing deposition of nickel nanoparticles: flexible hierarchical magnetic textile composites for strong electromagnetic shielding. **2017**, 28, 045710		24
329	Graphene-Based Sandwich Structures for Frequency Selectable Electromagnetic Shielding. *ACS Applied Materials & Interfaces*, **2017**, 9, 36119-36129	9.5	92

328	Correlation between mechanical dissipation and improved X-band electromagnetic shielding capabilities of amine functionalized graphene/thermoplastic polyurethane composites. **2017**, 95, 520-538		31
327	Cyanate Ester Resin Filled with Graphene Nanosheets and NiFe2O4@Reduced Graphene Oxide Nanohybrids for Efficient Electromagnetic Interference Shielding. **2017**, 12, 1750066		12
326	Magnetic Alloy-MWNT Heterostructure as Efficient Electromagnetic Wave Suppressors in Soft Nanocomposites. **2017**, 2, 7831-7844		25
325	Effect of thermal-air ageing treatment on mechanical properties and electromagnetic interference shielding effectiveness of low-cost nano-structured carbon filled chlorinated polyethylene. **2017**, 225, 140-149		44
324	Nanoelectromagnetic of the N-doped single wall carbon nanotube in the extremely high frequency band. **2017**, 9, 14192-14200		7
323	Ultralight and Flexible Polyurethane/Silver Nanowire Nanocomposites with Unidirectional Pores for Highly Effective Electromagnetic Shielding. *ACS Applied Materials & Interfaces*, **2017**, 9, 32211-32219	9.5	112
322	Collagen Fiber Membrane as an Absorptive Substrate To Coat with Carbon Nanotubes-Encapsulated Metal Nanoparticles for Lightweight, Wearable, and Absorption-Dominated Shielding Membrane. **2017**, 56, 8553-8562		14
321	Microstructure Design of Lightweight, Flexible, and High Electromagnetic Shielding Porous Multiwalled Carbon Nanotube/Polymer Composites. **2017**, 13, 1701388		118
320	Graphene analogues as emerging materials for screening electromagnetic radiations. **2017**, 11, 94-101		31
319	Salt leached viable porous Fe3O4 decorated polyaniline @SWCNH/PVDF composite spectacles as an admirable electromagnetic shielding efficiency in extended Ku-band region. **2017**, 129, 210-220		36
318	Anisotropically conductive polypropylene/nickel coated glass fiber composite via magnetic field inducement. *Journal of Materials Science: Materials in Electronics*, **2017**, 28, 9126-9131	2.1	12
317	Lightweight flexible carbon nanotube/polyaniline films with outstanding EMI shielding properties. *Journal of Materials Chemistry C*, **2017**, 5, 8694-8698	7.1	52
316	Magnetic, electrically conductive and lightweight graphene/iron pentacarbonyl porous films enhanced with chitosan for highly efficient broadband electromagnetic interference shielding. *Composites Science and Technology*, **2017**, 151, 71-78	8.6	38
315	Conductive herringbone structure carbon nanotube/thermoplastic polyurethane porous foam tuned by epoxy for high performance flexible piezoresistive sensor. *Composites Science and Technology*, **2017**, 149, 166-177	8.6	71
314	Development of porous and electrically conductive activated carbon web for effective EMI shielding applications. *Carbon*, **2017**, 111, 439-447	10.4	84
313	Preparation of porous polyimide/in-situ reduced graphene oxide composite films for electromagnetic interference shielding. **2017**, 28, 233-242		27
312	N-doped reduced graphene oxide/waterborne polyurethane composites prepared by in situ chemical reduction of graphene oxide. *Composites Part A: Applied Science and Manufacturing*, **2017**, 94, 41-49	8.4	28
311	Strong flexible polymer/graphene composite films with 3D saw-tooth folding for enhanced and tunable electromagnetic shielding. *Carbon*, **2017**, 113, 55-62	10.4	129

310	A study on EMI shielding effectiveness of graphene based structures. **2017**,		1
309	Thermoplastic Composites for EMI Shielding Applications. **2017**,		
308	NaCl leached sustainable porous flexible Fe3O4 decorated RGO-polyaniline/PVDF composite for durable application against electromagnetic pollution. **2017**, 11, 419-433		13
307	Efficient electromagnetic interference shielding of lightweight carbon nanotube/polyethylene composites compression molding plus salt-leaching.. **2018**, 8, 8849-8855		24
306	Graphene aerogel films with expansion enhancement effect of high-performance electromagnetic interference shielding. *Carbon*, **2018**, 135, 44-51	10.4	92
305	Compacting CNT sponge to achieve larger electromagnetic interference shielding performance. **2018**, 144, 323-330		25
304	Recent progress in the modification of carbon materials and their application in composites for electromagnetic interference shielding. **2018**, 53, 8699-8719		39
303	Electromagnetic Shielding Materials in GHz Range. **2018**, 18, 1000-1009		56
302	Simultaneous enhancements in electrical conductivity and toughness of selectively foamed polycarbonate/polystyrene/carbon nanotube microcellular foams. **2018**, 143, 161-167		34
301	Double percolated MWCNTs loaded PC/SAN nanocomposites as an absorbing electromagnetic shield. **2018**, 100, 209-218		26
300	Highly flexible and ultra-thin Ni-plated carbon-fabric/polycarbonate film for enhanced electromagnetic interference shielding. *Carbon*, **2018**, 132, 32-41	10.4	79
299	Electromagnetic Interference Shielding Polymer Nanocomposites. **2018**, 567-601		1
298	Ultralight and Highly Elastic Graphene/Lignin-Derived Carbon Nanocomposite Aerogels with Ultrahigh Electromagnetic Interference Shielding Performance. *ACS Applied Materials & Interfaces*, **2018**, 10, 8205-8213	9.5	110
297	Porous superhydrophobic polymer/carbon composites for lightweight and self-cleaning EMI shielding application. *Composites Science and Technology*, **2018**, 158, 86-93	8.6	105
296	Morphological, dielectric, tunable electromagnetic interference shielding and thermal characteristics of multiwalled carbon nanotube incorporated polymer nanocomposites: A facile, environmentally benign and cost effective approach realized via polymer latex/waterborne polymer as matrix. *Polymer Composites*, **2018**, 39, E1169-E1183	3	8
295	Effect of interfacial interaction on rheological, electrically conductive, and electromagnetic shielding properties of polyethylene/GO composites. **2018**, 58, 1774-1781		7
294	Flexible, mechanically resilient carbon nanotube composite films for high-efficiency electromagnetic interference shielding. *Carbon*, **2018**, 136, 387-394	10.4	58
293	Binary Strengthening and Toughening of MXene/Cellulose Nanofiber Composite Paper with Nacre-Inspired Structure and Superior Electromagnetic Interference Shielding Properties. *ACS Nano* , **2018**, 12, 4583-4593	16.7	560

292	Superflexible Interconnected Graphene Network Nanocomposites for High-Performance Electromagnetic Interference Shielding. **2018**, 3, 3599-3607		31
291	One-step fabrication of N-doped CNTs encapsulating M nanoparticles (M = Fe, Co, Ni) for efficient microwave absorption. **2018**, 447, 244-253		79
290	Synergistic effect of graphene and carbon nanotube for high-performance electromagnetic interference shielding films. *Carbon*, **2018**, 133, 316-322	10.4	120
289	Hydro-sensitive sandwich structures for self-tunable smart electromagnetic shielding. *Chemical Engineering Journal*, **2018**, 344, 342-352	14.7	50
288	Mechanically robust conductive carbon clusters confined ethylene methyl acrylate based flexible composites for superior shielding effectiveness. **2018**, 29, 95-110		45
287	Vapor sensing performance as a diagnosis probe to estimate the distribution of multi-walled carbon nanotubes in poly(lactic acid)/polypropylene conductive composites. **2018**, 255, 2809-2819		36
286	An approach to widen the electromagnetic shielding efficiency in PDMS/ferrous ferric oxide decorated RGO/MWCNH composite through pressure induced tunability. *Chemical Engineering Journal*, **2018**, 335, 501-509	14.7	41
285	Electromagnetic interference shielding effectiveness of microcellular polyimide/in situ thermally reduced graphene oxide/carbon nanotubes nanocomposites. **2018**, 434, 318-325		60
284	Superior electromagnetic interference shielding effectiveness and electro-mechanical properties of EMA-IRGO nanocomposites through the in-situ reduction of GO from melt blended EMA-GO composites. **2018**, 134, 46-60		60
283	Epoxy composite foams with excellent electromagnetic interference shielding and heat-resistance performance. *Journal of Applied Polymer Science*, **2018**, 135, 46013	2.9	26
282	Ultralow-Threshold and Lightweight Biodegradable Porous PLA/MWCNT with Segregated Conductive Networks for High-Performance Thermal Insulation and Electromagnetic Interference Shielding Applications. *ACS Applied Materials & Interfaces*, **2018**, 10, 1195-1203	9.5	171
281	Effect of various reduction methods of graphene oxide on electromagnetic shielding performance of reduced graphene oxide against electromagnetic pollution in X-band frequency. **2018**, 16, 374-379		7
280	Synergism between carbon materials and Ni chains in flexible poly(vinylidene fluoride) composite films with high heat dissipation to improve electromagnetic shielding properties. *Carbon*, **2018**, 127, 469-478	10.4	124
279	High-performance thermal and electrical conductive composites from multilayer plastic packaging waste and expanded graphite. *Journal of Materials Chemistry C*, **2018**, 6, 11209-11218	7.1	43
278	. **2018**,		18
277	Electronic and Optical Properties of 2D Transition Metal Carbides and Nitrides (MXenes). **2018**, 30, e1804779		464
276	Effects of the Carbon Fiber-Carbon Microcoil Hybrid Formation on the Effectiveness of Electromagnetic Wave Shielding on Carbon Fibers-Based Fabrics. **2018**, 11,		10
275	Engineering of High-Density Thin-Layer Graphite Foam-Based Composite Architectures with Superior Compressibility and Excellent Electromagnetic Interference Shielding Performance. *ACS Applied Materials & Interfaces*, **2018**, 10, 41707-41716	9.5	34

274	Microwave Absorption Properties of Polyaniline/Titanium Dioxide (PAni/TiO2) Doped with Different Types of Fullerenes. **2018**, 382, 1800089		1
273	EMI Shielding Fundamentals. **2018**, 1-9		5
272	Graphene and CNT Based EMI Shielding Materials. **2018**, 241-261		1
271	Electromagnetic Interference Shielding Materials for Aerospace Application. **2018**, 327-365		8
270	Polymer-Based EMI Shielding Materials. **2018**, 177-217		1
269	Ultrathin Biomimetic Polymeric TiCT MXene Composite Films for Electromagnetic Interference Shielding. *ACS Applied Materials & Interfaces*, **2018**, 10, 44787-44795	9.5	168
268	Flexible Poly(vinyl alcohol)/Reduced Graphene Oxide Coated Carbon Composites for Electromagnetic Interference Shielding. *ACS Applied Nano Materials*, **2018**, 1, 5854-5864	5.6	24
267	Lightweight, mechanical robust foam with a herringbone-like porous structure for oil/water separation and filtering. **2018**, 72, 86-93		12
266	Ultralight Cellulose Porous Composites with Manipulated Porous Structure and Carbon Nanotube Distribution for Promising Electromagnetic Interference Shielding. *ACS Applied Materials & Interfaces*, **2018**, 10, 40156-40167	9.5	73
265	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). *ACS Applied Materials & Interfaces*, **2018**, 10, 40789-40799	9.5	65
264	Large-scale preparation of segregated PLA/carbon nanotube composite with high efficient electromagnetic interference shielding and favourable mechanical properties. **2018**, 155, 405-413		75
263	Electrical and vapor sensing behaviors of polycarbonate composites containing hybrid carbon fillers. **2018**, 108, 461-471		12
262	Biomass-based honeycomb-like architectures for preparation of robust carbon foams with high electromagnetic interference shielding performance. *Carbon*, **2018**, 140, 227-236	10.4	50
261	Injection Molded Segregated Carbon Nanotube/Polypropylene Composite for Efficient Electromagnetic Interference Shielding. **2018**, 57, 12378-12385		36
260	Green and facile approach to prepare polypropylene/in situ reduced graphene oxide nanocomposites with excellent electromagnetic interference shielding properties. **2018**, 8, 30412-30428		27
259	Incorporating a microcellular structure into PVDF/graphene□nanoplatelet composites to tune their electrical conductivity and electromagnetic interference shielding properties. *Journal of Materials Chemistry C*, **2018**, 6, 10292-10300	7.1	113
258	Enhanced shielding effectiveness in nanohybrids of graphene derivatives with FeO and □FeN in the X-band microwave region. **2018**, 10, 12018-12034		28
257	Study of the absorption coefficient of graphene-polymer composites. **2018**, 8, 9132		41

256	Oxidized multiwall carbon nanotube/silicone foam composites with effective electromagnetic interference shielding and high gamma radiation stability.. **2018**, 8, 24236-24242		10
255	Ultralight, highly flexible and conductive carbon foams for high performance electromagnetic shielding application. *Journal of Materials Science: Materials in Electronics*, **2018**, 29, 13643-13652	2.1	16
254	Graphene-based plastic absorber for total sub-terahertz radiation shielding. **2018**, 10, 13426-13431		32
253	Two-dimensional materials: Emerging toolkit for construction of ultrathin high-efficiency microwave shield and absorber. **2018**, 13, 1		33
252	Lightweight and conductive carbon black/chlorinated poly(propylene carbonate) foams with a remarkable negative temperature coefficient effect of resistance for temperature sensor applications. *Journal of Materials Chemistry C*, **2018**, 6, 9354-9362	7.1	35
251	Researching on X-Band Electromagnetic Interference Shielding Efficiency of MWCNTs Buckypapers Inserted with Mn Nanopowder. **2018**, 13, 1850061		1
250	Ni deposited onto MWCNTs buckypapers for improved broadband EMI shielding. *Journal of Materials Science: Materials in Electronics*, **2018**, 29, 15034-15041	2.1	8
249	Three-dimensional graphene-based polymer nanocomposites: preparation, properties and applications. **2018**, 10, 14788-14811		128
248	Sustainable Electronics Based on Crop Plant Extracts and Graphene: A Bioadvantaged Approach. **2018**, 2, 1800069		23
247	3D printed honeycomb spacers: Tailoring sandwich structures for enhanced electromagnetic shielding. *Journal of Reinforced Plastics and Composites*, **2018**, 37, 1072-1082	2.9	5
246	Synthesis of LiCo0.94Mg0.06O2: a promising material with high dielectric and microwave absorption performance. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 15935-15942	2.1	1
245	Electromagnetic interference shielding performance of alternatively-deposited multilayer SiC/PyC porous ceramics. **2019**, 45, 21483-21490		5
244	Stretched graphene nanosheets formed the obstacle walls in melamine sponge towards effective electromagnetic interference shielding applications. **2019**, 182, 108029		30
243	Ultrastrong and conductive MXene/cellulose nanofiber films enhanced by hierarchical nano-architecture and interfacial interaction for flexible electromagnetic interference shielding. *Journal of Materials Chemistry C*, **2019**, 7, 9820-9829	7.1	94
242	Effects of upgrading temperature on electromagnetic shielding properties of three-dimensional graphene/SiBCN/SiC ceramic composites. **2019**, 45, 21278-21285		10
241	Retracted Article: The influence of gradient and porous configurations on the microwave absorbing performance of multilayered graphene/thermoplastic polyurethane composite foams.. **2019**, 9, 21859-21872		4
240	Ceramic based multi walled carbon nanotubes composites for highly efficient electromagnetic interference shielding. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 13381-13388	2.1	6
239	In-situ anchoring of Fe3O4/ZIF-67 dodecahedrons in highly compressible wood aerogel with excellent microwave absorption properties. **2019**, 182, 108006		42

238	Frequency-selective and tunable electromagnetic shielding effectiveness via the sandwich structure of silicone rubber/graphene composite. *Composites Science and Technology*, **2019**, 184, 107847	8.6	42
237	Recent progress of reinforcement materials: a comprehensive overview of composite materials. **2019**, 8, 6354-6374		176
236	Facile approach for a robust graphene/silver nanowires aerogel with high-performance electromagnetic interference shielding.. **2018**, 9, 27-33		20
235	Ultrathin 2D Nanomaterials for Electromagnetic Interference Shielding. **2019**, 6, 1901454		45
234	Electromagnetic shielding of ultrathin, lightweight and strong nonwoven composites decorated by a bandage-style interlaced layer electropolymerized with polyaniline. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 20420-20431	2.1	4
233	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
232	Self-healing graphene oxide-based composite for electromagnetic interference shielding. *Carbon*, **2019**, 155, 499-505	10.4	31
231	Microcellular SiC foams containing in situ grown nanowires for electromagnetic interference shielding. **2019**, 80, 401-410		8
230	Ultrathin and Flexible CNTs/MXene/Cellulose Nanofibrils Composite Paper for Electromagnetic Interference Shielding. **2019**, 11, 72		147
229	Highly Stretchable and Sensitive Strain Sensor with Porous Segregated Conductive Network. *ACS Applied Materials & Interfaces*, **2019**, 11, 37094-37102	9.5	62
228	Unprecedented Electromagnetic Interference Shielding from Three-Dimensional Bi-continuous Nanoporous Graphene. **2019**, 1, 1077-1087		28
227	Comparative Study of the Structure and Properties of Poly(Vinylidene Fluoride)/Montmorillonite-Polypyrrole Nanocomposites Prepared by Electrospinning and Solution Casting. **2019**, 6,		4
226	Electromagnetic interference shielding property of polybenzoxazine/graphene/nickel composites. **2019**, 143, 104324		9
225	Ultralight MXene-based aerogels with high electromagnetic interference shielding performance. *Journal of Materials Chemistry C*, **2019**, 7, 474-478	7.1	124
224	Prediction of electrical conductivity, double percolation limit and electromagnetic interference shielding effectiveness of copper nanowire filled flexible polymer blend nanocomposites. **2019**, 164, 559-569		59
223	A comparative study on electromagnetic interference shielding effectiveness of carbon nanofiber and nanofibrillated cellulose composites. *Synthetic Metals*, **2019**, 247, 285-297	3.6	18
222	Construction of a micro/nano structured surface on a TCP/CaSiO3 bioceramic promotes osteogenic differentiation of mBMSCs. **2019**, 21, 513-523		3
221	Recent Advances in Polymer and Polymer Composites for Electromagnetic Interference Shielding: Review and Future Prospects. **2019**, 59, 687-738		74

220	Obviously improved electromagnetic interference shielding performances for epoxy composites via constructing honeycomb structural reduced graphene oxide. *Composites Science and Technology* , **2019**, 181, 107698	8.6	97
219	Structuring dense three-dimensional sheet-like skeleton networks in biomass-derived carbon aerogels for efficient electromagnetic interference shielding. *Carbon*, **2019**, 152, 316-324	10.4	46
218	Carbon materials and their composites for electromagnetic interference shielding effectiveness in X-band. *Carbon*, **2019**, 152, 159-187	10.4	177
217	Organic vapor sensing behavior of polycarbonate/polystyrene/multi-walled carbon nanotube blend composites with different microstructures. **2019**, 179, 107897		7
216	Organic Thin Paper of Cellulose Nanofiber/Polyaniline Doped with (⊟)-10-Camphorsulfonic Acid Nanohybrid and Its Application to Electromagnetic Shielding. **2019**, 4, 9446-9452		14
215	High Performance Attapulgite/Polypyrrole Nanocomposite Reinforced Polystyrene (PS) Foam Based on Supercritical CO Foaming. *Polymers*, **2019**, 11,	4.5	5
214	Flexible thermoplastic polyurethane/reduced graphene oxide composite foams for electromagnetic interference shielding with high absorption characteristic. *Composites Part A: Applied Science and Manufacturing*, **2019**, 123, 310-319	8.4	72
213	Large electromagnetic interference shielding effectiveness in Ti3(Al, Si)C2 system. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 11011-11016	2.1	0
212	Facile and Green Method To Structure Ultralow-Threshold and Lightweight Polystyrene/MWCNT Composites with Segregated Conductive Networks for Efficient Electromagnetic Interference Shielding. **2019**, 7, 9904-9915		64
211	Lightweight Hierarchical Carbon Nanocomposites with Highly Efficient and Tunable Electromagnetic Interference Shielding Properties. *ACS Applied Materials & Interfaces*, **2019**, 11, 19331-19338	9.5	60
210	Room-Temperature Ferromagnetic SrYCoO and Carbon Black-Reinforced Polyvinylidenefluoride Composites toward High-Performance Electromagnetic Interference Shielding. **2019**, 4, 8196-8206		17
209	Synergetic effect of Fe3O4 nanoparticles and carbon on flexible poly (vinylidence fluoride) based films with higher heat dissipation to improve electromagnetic shielding. *Composites Part A: Applied Science and Manufacturing*, **2019**, 121, 139-148	8.4	55
208	Functionalized Graphene Reinforced Foams Based on Polymer Matrices. **2019**, 121-155		4
207	Tunable electromagnetic wave-absorbing capability achieved in liquid-metal-based nanocomposite. **2019**, 12, 045005		8
206	Room-temperature production of silver-nanofiber film for large-area, transparent and flexible surface electromagnetic interference shielding. **2019**, 3,		107
205	Ultrathin nitrogen-doping graphene films for flexible and stretchable EMI shielding materials. **2019**, 54, 7165-7179		29
204	Ultrathin MXene/Calcium Alginate Aerogel Film for High-Performance Electromagnetic Interference Shielding. **2019**, 6, 1802040		128
203	Recent advances in carbon-based polymer nanocomposites for electromagnetic interference shielding. **2019**, 103, 319-373		251

202	Electromagnetic Interference Shielding Polymers and Nanocomposites - A Review. **2019**, 59, 280-337		316
201	Mechanical, electrical, and electromagnetic properties of hybrid graphene/glass fiber/epoxy composite. *Polymers and Polymer Composites*, **2019**, 27, 262-267	0.8	11
200	Toward the Application of High Frequency Electromagnetic Wave Absorption by Carbon Nanostructures. **2019**, 6, 1801057		175
199	Development of Multi-Functional Graphene Polymer Composites Having Electromagnetic Interference Shielding and De-Icing Properties. *Polymers*, **2019**, 11,	4.5	17
198	Buckled AgNW/MXene hybrid hierarchical sponges for high-performance electromagnetic interference shielding. **2019**, 11, 22804-22812		59
197	Intrinsic flame-retardant urea formaldehyde/graphene nanocomposite foam: Structure and reinforcing mechanism. *Polymer Composites*, **2019**, 40, E811	3	7
196	Percolation behavior of electromagnetic interference shielding in polymer/multi-walled carbon nanotube nanocomposites. *Composites Science and Technology*, **2019**, 170, 70-76	8.6	70
195	Nanocomposite polymeric materials with 3D graphene-based architectures: from design strategies to tailored properties and potential applications. *Progress in Polymer Science*, **2019**, 89, 213-249	29.6	52
194	Antimony-doped tin oxide embedding graphene-based aerogel for infrared barriering. **2019**, 45, 7894-7905		11
193	Layered hybrid composites using multi-walled carbon nanotube film as reflection layer and multi-walled carbon nanotubes/neodymium magnet/ epoxy as absorption layer perform selective electromagnetic interference shielding. **2019**, 161, 617-626		24
192	The investigation of the electromagnetic shielding effectiveness of multi-layered nanocomposite materials from reduced graphene oxide-doped P(AN-VAc) nanofiber mats/PP spunbond. **2019**, 53, 1541-1553		8
191	Dual-Functional Graphene Composites for Electromagnetic Shielding and Thermal Management. **2019**, 5, 1800558		133
190	Lightweight, high electrical and thermal conducting carbon-rGO composites foam for superior electromagnetic interference shielding. **2019**, 160, 131-139		52
189	Flexible, durable and thermal conducting thiol-modified rGO-WPU/cotton fabric for robust electromagnetic interference shielding. *Chemical Engineering Journal*, **2019**, 360, 817-828	14.7	62
188	Superior electromagnetic interference shielding effectiveness and low percolation threshold through the preferential distribution of carbon black in the highly flexible polymer blend composites. *Polymer Composites*, **2019**, 40, 1404-1418	3	41
187	Self-assembling flexible 2D carbide MXene film with tunable integrated electron migration and group relaxation toward energy storage and green EMI shielding. *Carbon*, **2020**, 157, 80-89	10.4	109
186	Flexible Multilayer Combining Nickel Nanowires and Polymer Films for Broadband Microwave Absorption. *IEEE Transactions on Electromagnetic Compatibility*, **2020**, 62, 1661-1668	2	3
185	Lightweight silver@carbon microsphere@graphene (Ag@CMS@GR) composite materials for highly efficiency electromagnetic interference shielding properties. *Journal of Applied Polymer Science*, **2020**, 137, 48459	2.9	7

184	High-efficiency electromagnetic interference shielding realized in nacre-mimetic graphene/polymer composite with extremely low graphene loading. *Carbon*, **2020**, 157, 570-577	10.4	85
183	Highly flexible and ultra-thin carbon-fabric/Ag/waterborne polyurethane film for ultra-efficient EMI shielding. **2020**, 185, 108227		42
182	Multifunctional microcellular PVDF/Ni-chains composite foams with enhanced electromagnetic interference shielding and superior thermal insulation performance. *Chemical Engineering Journal*, **2020**, 379, 122304	14.7	108
181	Compressible, durable and conductive polydimethylsiloxane-coated MXene foams for high-performance electromagnetic interference shielding. *Chemical Engineering Journal*, **2020**, 381, 122622	14.7	157
180	Ultralow dielectric constant polyarylene ether nitrile foam with excellent mechanical properties. *Chemical Engineering Journal*, **2020**, 384, 123231	14.7	41
179	Fabrication of lightweight and flexible silicon rubber foams with ultra-efficient electromagnetic interference shielding and adjustable low reflectivity. *Journal of Materials Chemistry C*, **2020**, 8, 147-157	7.1	32
178	Comparative study of polymer-based nanocomposites microwave absorption performance in X Band. **2020**, 7, 015324		6
177	Recent developments in emerging two-dimensional materials and their applications. *Journal of Materials Chemistry C*, **2020**, 8, 387-440	7.1	227
176	Highly Robust, Flexible, and Large-Scale 3D-Metallized Sponge for High-Performance Electromagnetic Interference Shielding. **2020**, 5, 1900761		36
175	Substantially improving mechanical property of double percolated poly(phenylene sulfide)/poly(arylenesulfide sulfone)/graphene nanoplates composites with superior electromagnetic interference shielding performance. *Journal of Applied Polymer Science*, **2020**, 137, 48709	2.9	3
174	Self-templating graphene network composites by flame carbonization for excellent electromagnetic interference shielding. **2020**, 182, 107615		29
173	Steam-chest molding of polypropylene/carbon black composite foams as broadband EMI shields with high absorptivity. **2020**, 22, 100508		17
172	Nanocellulose assisted preparation of ambient dried, large-scale and mechanically robust carbon nanotube foams for electromagnetic interference shielding. *Journal of Materials Chemistry A*, **2020**, 8, 17969-17979	13	30
171	Exceptional electromagnetic shielding efficiency of silver coated carbon fiber fabrics via a roll-to-roll spray coating process. *Journal of Materials Chemistry C*, **2020**, 8, 11070-11078	7.1	7
170	A two-step process for the preparation of thermoplastic polyurethane/graphene aerogel composite foams with multi-stage networks for electromagnetic shielding. **2020**, 21, 100416		30
169	Segregated poly(arylene sulfide sulfone)/graphene nanoplatelet composites for electromagnetic interference shielding prepared by the partial dissolution method.. **2020**, 10, 20817-20826		2
168	Carbon nanotube/ZnO nanowire/polyvinylidene fluoride hybrid nanocomposites for enhanced electromagnetic interference shielding. **2020**, 98, 1036-1046		12
167	Collagen Fiber/Fe3O4/Polypyrrole Nanocomposites for Absorption-Type Electromagnetic Interference Shielding and Radar Stealth. *ACS Applied Nano Materials*, **2020**, 3, 11906-11915	5.6	9

166	Polymer-Assisted Fabrication of Silver Nanowire Cellular Monoliths: Toward Hydrophobic and Ultraflexible High-Performance Electromagnetic Interference Shielding Materials. *ACS Applied Materials & Interfaces*, **2020**, 12, 38584-38592	9.5	19
165	Anomalous absorption of electromagnetic waves by 2D transition metal carbonitride TiCNT (MXene). **2020**, 369, 446-450		362
164	A promising strategy for efficient electromagnetic interference shielding by designing a porous double-percolated structure in MWCNT/polymer-based composites. *Composites Part A: Applied Science and Manufacturing*, **2020**, 138, 106059	8.4	19
163	Lightweight and Hydrophobic Three-Dimensional Wood-Derived Anisotropic Magnetic Porous Carbon for Highly Efficient Electromagnetic Interference Shielding. *ACS Applied Materials & Interfaces*, **2020**, 12, 40802-40814	9.5	45
162	Phenol formaldehyde resin derived carbon-MCMB composite foams for electromagnetic interference shielding and thermal management applications. **2020**, 22, 100433		11
161	Three dimension phenolic resin derived carbon-CNTs hybrid foam for fire retardant and effective electromagnetic interference shielding. **2020**, 2, 100020		8
160	Bidirectional Core Sandwich Structure of Reduced Graphene Oxide and Spinnable Multiwalled Carbon Nanotubes for Electromagnetic Interference Shielding Effectiveness. *ACS Applied Materials & Interfaces*, **2020**, 12, 46883-46891	9.5	7
159	Multifunctional Graphene Composites for Electromagnetic Shielding and Thermal Management at Elevated Temperatures. **2020**, 6, 2000520		33
158	Preparation of Highly Efficient Electromagnetic Interference Shielding Polylactic Acid/Graphene Nanocomposites for Fused Deposition Modeling Three-Dimensional Printing. **2020**, 59, 15565-15575		13
157	Effect of filler loading on the shielding of electromagnetic interference of reduced graphene oxide reinforced polypropylene nanocomposites prepared via a twin-screw extruder. *Journal of Materials Science: Materials in Electronics*, **2020**, 31, 22162-22170	2.1	3
156	3D Printing of Delicately Controllable Cellular Nanocomposites Based on Polylactic Acid Incorporating Graphene/Carbon Nanotube Hybrids for Efficient Electromagnetic Interference Shielding. **2020**, 8, 7962-7972		30
155	A molding-sintering method inspired by powder metallurgy for thermosetting resins with narrow processing window: A case study on bio-based adenine containing phthalonitrile. *Chemical Engineering Journal*, **2020**, 398, 125442	14.7	11
154	Graphene Epoxy-Based Composites as Efficient Electromagnetic Absorbers in the Extremely High-Frequency Band. *ACS Applied Materials & Interfaces*, **2020**, 12, 28635-28644	9.5	27
153	Ultra-thin and highly flexible cellulose nanofiber/silver nanowire conductive paper for effective electromagnetic interference shielding. *Composites Part A: Applied Science and Manufacturing*, **2020** , 135, 105960	8.4	77
152	Synergistic Effect of Nickel Nanoparticles and Carbon Nanotubes Buckypaper for Enhancement of Microwave Shielding Properties. **2020**, 302, 71-78		
151	Filler-Free Conducting Polymers as a New Class of Transparent Electromagnetic Interference Shields. *ACS Applied Materials & Interfaces*, **2020**, 12, 28596-28606	9.5	25
150	Melt-Processed Graphite-Polypropylene Composites for EMI Shielding Applications. **2020**, 49, 5293-5301		2
149	Electromagnetic Interference Shielding Performance of Anisotropic Polyimide/Graphene Composite Aerogels. *ACS Applied Materials & Interfaces*, **2020**, 12, 30990-31001	9.5	89

148	Multi-layered graphene-Fe3O4/poly (vinylidene fluoride) hybrid composite films for high-efficient electromagnetic shielding. **2020**, 89, 106652		24
147	Biodegradable polymeric materials for EMI shielding. **2020**, 165-178		2
146	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
145	Flexible and Ultrathin Waterproof Cellular Membranes Based on High-Conjunction Metal-Wrapped Polymer Nanofibers for Electromagnetic Interference Shielding. **2020**, 32, e1908496		101
144	Structuring Hierarchically Porous Architecture in Biomass-Derived Carbon Aerogels for Simultaneously Achieving High Electromagnetic Interference Shielding Effectiveness and High Absorption Coefficient. *ACS Applied Materials & Interfaces*, **2020**, 12, 18840-18849	9.5	48
143	Screen-printing process of electromagnetic interference (EMI) shielding materials on mulberry paper. **2020**, 35, 1701-1706		2
142	Recent advancements in manufacturing technologies of microcellular polymers: a review. **2020**, 27, 1		12
141	Theoretical modeling and experimental verification of percolation threshold with MWCNTs rotation and translation around a growing bubble in conductive polymer composite foams. *Composites Science and Technology*, **2020**, 199, 108345	8.6	17
140	Graphene Foams for Electromagnetic Interference Shielding: A Review. *ACS Applied Nano Materials*, **2020**, 3, 6140-6155	5.6	41
139	Highly conductive porous graphene film with excellent folding resilience for exceptional electromagnetic interference shielding. *Journal of Materials Chemistry C*, **2020**, 8, 8904-8916	7.1	26
138	Effect of sorted, homogeneous electronic grade single-walled carbon nanotube on the electromagnetic shielding effectiveness. *Carbon*, **2020**, 167, 523-529	10.4	6
137	Technical viewpoint on polystyrene/graphene nanocomposite. **2020**, 089270572090765		4
136	Gradient structure design of lightweight and flexible silicone rubber nanocomposite foam for efficient electromagnetic interference shielding. *Chemical Engineering Journal*, **2020**, 390, 124589	14.7	53
135	Achieving enhanced electromagnetic shielding and absorption capacity of cellulose-derived carbon aerogels via tuning the carbonization temperature. *Journal of Materials Chemistry C*, **2020**, 8, 5191-5201	7.1	23
134	Carbon nanofiber-structured polyurethane foams for compaction-adjustable microwave shielding. **2020**, 246, 122808		5
133	Porous materials for EMI shielding. **2020**, 287-314		6
132	Ultralight, Flexible, and Biomimetic Nanocellulose/Silver Nanowire Aerogels for Electromagnetic Interference Shielding. *ACS Nano*, **2020**, 14, 2927-2938	16.7	121
131	Lightweight and Robust Carbon Nanotube/Polyimide Foam for Efficient and Heat-Resistant Electromagnetic Interference Shielding and Microwave Absorption. *ACS Applied Materials & Interfaces*, **2020**, 12, 8704-8712	9.5	99

130	Nanoinfiltration for Enhancing Microwave Attenuation in Polystyrene Nanoparticle Composites. *ACS Applied Nano Materials*, **2020**, 3, 1872-1880	5.6	6
129	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
128	polymerization of graphene-polyaniline@polyimide composite films with high EMI shielding and electrical properties.. **2020**, 10, 2368-2377		23
127	Honeycomb structural rGO-MXene/epoxy nanocomposites for superior electromagnetic interference shielding performance. **2020**, 24, e00153		71
126	Electromagnetic interference shielding effectiveness of ferrocene-based polyimidazole/carbon material composites. *Polymer Composites*, **2020**, 41, 2068-2081	3	7
125	Flexible polyvinylidene fluoride film with alternating oriented graphene/Ni nanochains for electromagnetic interference shielding and thermal management. *Chemical Engineering Journal*, **2020**, 395, 125209	14.7	74
124	Laterally compressed graphene foam/acrylonitrile butadiene styrene composites for electromagnetic interference shielding. *Composites Part A: Applied Science and Manufacturing*, **2020** , 133, 105887	8.4	25
123	Highly Conductive PDMS Composite Mechanically Enhanced with 3D-Graphene Network for High-Performance EMI Shielding Application. **2020**, 10,		9
122	Electromagnetic shielding behavior of heat-treated Ti3C2TX MXene accompanied by structural and phase changes. *Carbon*, **2020**, 165, 150-162	10.4	20
121	Polypyrrole and cellulose nanofiber based composite films with improved physical and electrical properties for electromagnetic shielding applications. **2020**, 240, 116304		36
120	In-situ deposition of three-dimensional graphene on selective laser melted copper scaffolds for high performance applications. *Composites Part A: Applied Science and Manufacturing*, **2020**, 135, 105904	8.4	10
119	Multifunctional Cellulose/rGO/FeO Composite Aerogels for Electromagnetic Interference Shielding. *ACS Applied Materials & Interfaces*, **2020**, 12, 22088-22098	9.5	63
118	Preparation of high-strength and lightweight microcellular polysulfone foam with a segregated CNT network for excellent electromagnetic shielding.. **2020**, 10, 11994-12003		11
117	Modulating electromagnetic interference shielding performance of ultra-lightweight composite foams through shape memory function. **2021**, 204, 108497		38
116	Yarn-ball-shaped CNF/MWCNT microspheres intercalating TiCT MXene for electromagnetic interference shielding films. **2021**, 254, 117325		26
115	Facile green path to interconnected nano-graphite networks to overtake graphene as conductive fillers. *Carbon*, **2021**, 173, 667-675	10.4	3
114	Recent Progress in Graphene/Polymer Nanocomposites. **2021**, 33, e2001105		75
113	Alloy/graphene 3D TPMS porous scaffold. **2021**, 131-148		

112	Chapter 3. Transition Metal Carbide (MXene)Polymer Nanocomposites. **2021**, 99-128		
111	Lightweight and high-strength GMT/PEFP/GNP composites with absorb-dominated electromagnetic interference shielding property. *Journal of Materials Science: Materials in Electronics*, **2021**, 32, 25863	2.1	3
110	Superiority of graphite coated metallic-nanoparticles over graphite coated insulating-nanoparticles for enhancing EMI shielding. **2021**, 45, 4592-4600		6
109	Progress in Advanced Materials Used in Electromagnetic Interference Shielding for Space Applications. **2021**, 530-553		
108	Advances in electromagnetic shielding properties of composite foams. *Journal of Materials Chemistry A*, **2021**, 9, 8896-8949	13	34
107	Electromagnetic Shielding Capabilities of Metal Matrix Composites. **2021**, 428-441		1
106	Ultrahigh Molecular Weight Polyethylene and Graphene Oxide (UHMWPE/GO) Nano-composites for EMI Shielding. **2021**, 1243-1267		
105	Multiwalled Carbon Nanotube Buckypaper/Polyacrylonitrile Nanofiber Composite Membranes for Electromagnetic Interference Shielding. *ACS Applied Nano Materials*, **2021**, 4, 729-738	5.6	8
104	Construction of interconnected and oriented graphene nanosheets networks in cellulose aerogel film for high-efficiency electromagnetic interference shielding. **2021**, 28, 3135-3148		8
103	Preparation of porous graphene nanosheets/carbon nanotube/polyvinylidene fluoride (GNS/CNT/PVDF) composites for high microwave absorption in X-band. *Journal of Materials Science: Materials in Electronics*, **2021**, 32, 9611-9622	2.1	6
102	Microcellular Conductive Carbon Black or Graphene/PVDF Composite Foam with 3D Conductive Channel: A Promising Lightweight, Heat-Insulating, and EMI-Shielding Material. *Macromolecular Materials and Engineering*, **2021**, 306, 2000759	3.9	3
101	Electrically Conductive Ti3C2Tx MXene/Polypropylene Nanocomposites with an Ultralow Percolation Threshold for Efficient Electromagnetic Interference Shielding. **2021**, 60, 4342-4350		22
100	Thin Films and/or Coating for Electromagnetic Interference and Stealth. **2021**, 587-614		0
99	MXene-coated conductive composite film with ultrathin, flexible, self-cleaning for high-performance electromagnetic interference shielding. *Chemical Engineering Journal*, **2021**, 412, 128681	14.7	25
98	Ultralight carbon nanotube/graphene/polyimide foam with heterogeneous interfaces for efficient electromagnetic interference shielding and electromagnetic wave absorption. *Carbon*, **2021**, 176, 118-125	10.4	36
97	Facile fabrication of lightweight porous FDM-Printed polyethylene/graphene nanocomposites with enhanced interfacial strength for electromagnetic interference shielding. *Composites Science and Technology*, **2021**, 207, 108732	8.6	20
96	Rational design and fabrication of lightweight porous polyimide composites containing polyaniline modified graphene oxide and multiwalled carbon nanotube hybrid fillers for heat-resistant electromagnetic interference shielding. **2021**, 224, 123742		8
95	Effects of Impedance and Dielectric Loss on the Electromagnetic Shielding Performance of an Ultrathin Carbon Nanotube Buckypaper-Reinforced Silicon Carbide Nanocomposite. *Advanced Engineering Materials*, **2021**, 23, 2001487	3.5	1

94	Construction of three-dimensional interconnected graphene nanosheet network in thermoplastic polyurethane with highly efficient electromagnetic interference shielding. **2021**, 215, 108813		13
93	Porous network carbon nanotubes/chitosan 3D printed composites based on ball milling for electromagnetic shielding. *Composites Part A: Applied Science and Manufacturing*, **2021**, 145, 106363	8.4	13
92	Microcellular epoxy/reduced graphene oxide/multi-walled carbon nanotube nanocomposite foams for electromagnetic interference shielding. **2021**, 552, 149232		9
91	Electromagnetic Interference Shielding and Electrothermal Performance of MXene-Coated Cellulose Hybrid Papers and Fabrics Manufactured by a Facile Scalable Dip-Dry Coating Process. *Advanced Engineering Materials*, 2100548	3.5	2
90	High electromagnetic interference shielding effectiveness achieved by multiple internal reflection and absorption in polybenzoxazine/graphene foams. *Journal of Applied Polymer Science*, **2021**, 138, 51318	2.9	4
89	Selective distribution of conductive carbonaceous inclusion in thermoplastic elastomer: A wet chemical approach of promoting dual percolation and inhibiting radiation pollution in X-band. *Composites Science and Technology*, **2021**, 210, 108800	8.6	13
88	Lightweight and self-healing carbon nanotube/acrylic copolymer foams: Toward the simultaneous enhancement of electromagnetic interference shielding and thermal insulation. *Chemical Engineering Journal*, **2021**, 417, 129339	14.7	23
87	MXene/polyurethane auxetic composite foam for electromagnetic interference shielding and impact attenuation. *Composites Part A: Applied Science and Manufacturing*, **2021**, 147, 106430	8.4	17
86	Recent advances in graphene-based films for electromagnetic interference shielding: Review and future prospects. *Carbon*, **2021**, 180, 163-184	10.4	32
85	Lightweight graphene encapsulated with polyaniline for excellent electromagnetic shielding performance in X-band (8.2–12.4 GHz). **2021**, 270, 115227		5
84	Structural Design Strategies of Polymer Matrix Composites for Electromagnetic Interference Shielding: A Review. **2021**, 13, 181		65
83	Poly(vinyl alcohol)/MXene biomimetic aerogels with tunable mechanical properties and electromagnetic interference shielding performance controlled by pore structure. **2021**, 230, 124101		7
82	Flexible and lightweight MXene/silver nanowire/polyurethane composite foam films for highly efficient electromagnetic interference shielding and photothermal conversion. *Composites Science and Technology*, **2021**, 215, 109023	8.6	8
81	Multiscale collaborative coupling of wood-derived porous carbon modified by three-dimensional conductive magnetic networks for electromagnetic interference shielding. **2021**, 224, 109169		7
80	Post synthesis foaming of graphene-oxide/chitosan aerogel for efficient microwave absorbers via regulation of multiple reflections. **2021**, 143, 111458		1
79	Electromagnetic interference shielding property of polymer-graphene composites. **2022**, 211-243		0
78	Polyurethane/polydopamine/graphene auxetic composite foam with high-efficient and tunable electromagnetic interference shielding performance. *Chemical Engineering Journal*, **2022**, 427, 131635	14.7	5
77	Effect of milling parameters on EMI shielding of the PES/MWCNT nanocomposites. **2021**, 43, 3169-3172		0

76	Electromagnetic Interference Shielding Effectiveness of Graphene Based Conducting Polymer Nanocomposites. **2020**, 31-40		3
75	An Overview of Electrically Conductive Polymer Nanocomposites toward Electromagnetic Interference Shielding. **2018**,		67
74	Progress in Advanced Materials Used in Electromagnetic Interference Shielding for Space Applications. **2018**, 284-313		2
73	Lightweight and flexible silicone rubber foam with dopamine grafted multi-walled carbon nanotubes and silver nanoparticles using supercritical foaming technology: Its preparation and electromagnetic interference shielding performance. **2021**, 161, 110839		3
72	Chapter 7 Cement-Based Electromagnetic Functional Materials. **2016**, 273-344		
71	Microcellular Polyimide Foams: Fabrication and Characterization. **2016**, 317-339		
70	Relationship between Mechanical Properties and Porosity of Porous Polymer Sheet Fabricated using Water-soluble Particles. *Journal of the Korean Society of Manufacturing Process Engineers*, **2018**, 17, 16-23	0.1	1
69	Ultra-High Molecular Weight Polyethylene and Graphene Oxide (UHMWPE/GO) Nano Composites for EMI Shielding. **2021**, 1-26		
68	Superstructure silver micro-tube composites for ultrahigh electromagnetic wave shielding. *Chemical Engineering Journal*, **2022**, 430, 132949	14.7	13
67	Ultrathin freestanding PDA-Doped rGO/MWCNT composite paper for electromagnetic interference shielding applications. *Chemical Engineering Journal*, **2022**, 430, 132808	14.7	0
66	Ultralow Dielectric Constant Polyarylene Ether Nitrile/Polyhedral Oligomeric Silsesquioxanes Foams with High Thermal Stabilities and Excellent Mechanical Properties Prepared by Supercritical CO2. *Advanced Engineering Materials*, 2100874	3.5	0
65	The novel upgrade recycling of waste epoxy for thermal management and electromagnetic shielding application. *Composites Part A: Applied Science and Manufacturing*, **2022**, 152, 106710	8.4	0
64	Preparation and identification of a biocompatible polymer composite: Shielding against the interference of electromagnetic waves. *Synthetic Metals*, **2022**, 283, 116983	3.6	0
63	Heterolayered Composite of Carbon Nanofibers Sandwiched between Poly(ethylene terephthalate) and Polyurethane for Flexible Electromagnetic Shielding Application. *ACS Applied Nano Materials*, **2021**, 4, 12146-12157	5.6	3
62	Silver-coated conductive composite fabric with flexible, anti-flaming for electromagnetic interference shielding. *Journal of Applied Polymer Science*, 51875	2.9	0
61	Lightweight and flexible conducting polymer sponges and hydrogels for electromagnetic interference shielding. *Journal of Materials Chemistry C*, **2021**, 9, 16558-16565	7.1	3
60	Ionic Liquid Driven Enhancement in the Electromagnetic Interference Shielding Effectiveness of poly(methyl-methacrylate) Based Composite Materials Filled with Hybrid Silver-coated Glass Microfibers. *Macromolecular Materials and Engineering*, 2100759	3.9	0
59	Biological porous carbon encapsulated polyethylene glycol-based phase change composites for integrated electromagnetic interference shielding and thermal management capabilities. *Journal of Materials Science and Technology*, **2022**, 113, 147-157	9.1	10

58	Advanced 3D Printed Conductive Polymer Nanocomposites for Electromagnetic Shielding. **2021**,		0
57	Multilayer polymeric nanocomposite thin film heater and electromagnetic interference shield. *Chemical Engineering Journal*, **2022**, 435, 134598	14.7	0
56	A new trial for lightweight MXene hybrid aerogels with high electromagnetic interference shielding performance. *Journal of Materials Science: Materials in Electronics*, **2022**, 33, 4093	2.1	0
55	Microwave absorption analysis of graphene-based hybrid nanocomposites: experimental, numerical and component level testing studies. *Plastics, Rubber and Composites*, 1-16	1.5	
54	Graphene-Polymer Nanocomposites for Environmental Remediation of Organic Pollutants. *Energy, Environment, and Sustainability*, **2022**, 321-349	0.8	
53	Electromagnetic Interference Shielding in Phenolic Foam. *Gels Horizons: From Science To Smart Materials*, **2022**, 175-193		
52	Efficient electromagnetic interference shielding of flexible Ag microfiber sponge/polydimethylsiloxane composite constructed by blow spinning. *Composites Science and Technology*, **2022**, 220, 109281	8.6	2
51	Recent progress in polymer/two-dimensional nanosheets composites with novel performances. *Progress in Polymer Science*, **2022**, 126, 101505	29.6	12
50	Electrospun bifunctional MXene-based electronic skins with high performance electromagnetic shielding and pressure sensing. *Composites Science and Technology*, **2022**, 221, 109313	8.6	4
49	Electrical and electromagnetic interference shielding properties of GNP-NiFe hybrid composite with segregate structure of conductive networks. *Journal of Applied Physics*, **2022**, 131, 055110	2.5	0
48	Revised Manuscript with Corrections: Polyurethane-Based Conductive Composites: From Synthesis to Applications.. *International Journal of Molecular Sciences*, **2022**, 23,	6.3	1
47	MXene-Coated Wrinkled Fabrics for Stretchable and Multifunctional Electromagnetic Interference Shielding and Electro/Photo-Thermal Conversion Applications.. *ACS Applied Materials & Interfaces*, **2021**, 13, 60478-60488	9.5	8
46	Recent advancements in the electromagnetic interference shielding performance of nanostructured materials and their nanocomposites: a review. *Journal of Materials Chemistry A*, **2022**, 10, 7431-7496	13	4
45	Hybrid materials for electromagnetic shielding: A review. *Polymer Composites*,	3	1
44	Bioinspired, High-Strength, and Flexible MXene/Aramid Fiber for Electromagnetic Interference Shielding Papers with Joule Heating Performance.. *ACS Nano*, **2022**,	16.7	9
43	Recent applications of carbon-based composites in defence industry: A review. *Defence Technology*, **2022**,	3	4
42	Light-weight carbon fiber/silver-coated hollow glass spheres/epoxy composites as highly effective electromagnetic interference shielding material. *Journal of Reinforced Plastics and Composites*, 07316844211065	2.9	0
41	Shielding Effectiveness of Ideal Monolayer Graphene in Cylindrical Configurations With the Method of Auxiliary Sources. *IEEE Transactions on Electromagnetic Compatibility*, **2022**, 1-1	2	1

40	Facile and Green Process to Synthesize a Three-Dimensional Network Few-Layer Graphene/Carbon Nanotube Composite for Electromagnetic Interference Shielding.. *Polymers*, **2022**, 14,	4.5	0
39	Facile Fabrication of Highly Sensitive Thermoplastic Polyurethane Sensors with Surface- and Interface-Impregnated 3D Conductive Networks.. *ACS Applied Materials & Interfaces*, **2022**,	9.5	3
38	Lightweight, stiff and Heat-Resistant Bamboo-Derived carbon scaffolds with gradient aligned microchannels for highly efficient EMI shielding. *Chemical Engineering Journal*, **2022**, 446, 136911	14.7	0
37	Cellulose Nanofiber/Graphene Nanoplatelet/MXene Nanocomposites for Enhanced Electromagnetic Shielding and High In-Plane Thermal Conductivity. *ACS Applied Nano Materials*,	5.6	3
36	Comprehensive review on polymer composites as electromagnetic interference shielding materials. *Polymers and Polymer Composites*, **2022**, 30, 096739112211021	0.8	2
35	Recent Progress in Electromagnetic Interference Shielding Performance of Porous Polymer Nanocomposites□A Review. *Energies*, **2022**, 15, 3901	3.1	3
34	Ultralight and Hydrophobic MXene/Chitosan-derived Hybrid Carbon Aerogel with Hierarchical Pore structure for Durable Electromagnetic Interference Shielding and Thermal Insulation. *Chemical Engineering Journal*, **2022**, 137093	14.7	4
33	Ultrathin and flexible hybrid films decorated by copper nanoparticles with a sandwich-like structure for electromagnetic interference shielding. *Materials Chemistry Frontiers*,	7.8	0
32	Controllable growth of NiCo compounds with different morphologies and structures on carbon fabrics as EMI shields with improved absorptivity. *Carbon*, **2022**, 197, 508-518	10.4	0
31	Development of CNTs-carbonized cotton fiber/PANI 3D-nanocomposites for flexible energy storage and electromagnetic shielding applications. *Electrochimica Acta*, **2022**, 427, 140847	6.7	0
30	Flexible aramid nanofiber/Ag nanowires/graphene nanosheets composite films with sandwich structure for high-performance electromagnetic interference shielding and Joule heating. *Journal of Alloys and Compounds*, **2022**, 923, 166401	5.7	0
29	Polystyrene-Modulated Polypyrrole to Achieve Controllable Electromagnetic-Wave Absorption with Enhanced Environmental Stability. **2022**, 12, 2698		0
28	Analysis of Electromagnetic Shielding Properties of a Material Developed Based on Silver-Coated Copper Core-Shell Spraying. **2022**, 15, 5448		1
27	Robust and self-healing polydimethylsiloxane/carbon nanotube foams for electromagnetic interference shielding and thermal insulation. **2022**, 35, 101323		2
26	Self-Limited ultraviolet laser sintering of liquid metal particles for □n-Thick flexible electronics devices. **2022**, 223, 111189		1
25	Time-difference blow-spinning to a flexible dual-scale multilayer fabric for highly efficient electromagnetic interference shielding. **2022**, 10, 14141-14150		0
24	Superhydrophobic flexible conductive PFDT/CB/MXene@Paper for high-efficiency EMI shielding and Joule heating applications.		2
23	Boost in the Electromagnetic Shielding Effectiveness of Polystyrene□Polyaniline Composites by Addition of Carbon Nanofibers.		0

22	Cost effective production of high quality multilayer graphene in molten Sn bubble column by using CH4 as carbon source. **2022**, 167495	1
21	Novel crystalline reduced graphene oxide/adhesive nanocomposites for enhanced electrical, thermal, dielectric properties and electromagnetic energy absorption application. **2022**, 1,	0
20	Ultra-stable graphene aerogels for electromagnetic interference shielding.	1
19	Recent progress on hybrid fibrous electromagnetic shields: Key protectors of living species against electromagnetic radiation. **2022**, 5, 3807-3868	0
18	Superhydrophobic hollow magnetized Fe3O4 nanospheres/MXene fabrics for electromagnetic interference shielding. **2023**, 934, 167964	2
17	Lightweight, flexible, and highly conductive recycled carbon fiber felt for electromagnetic interference shielding. **2023**, 935, 168152	2
16	Facile fabrication of stacked rGO/MoS2 reinforced polyurethane composite foam for effective electromagnetic interference shielding. **2023**, 166, 107366	0
15	Natural sedimentation-assisted fabrication of Janus functional films for versatile applications in Joule heating, electromagnetic interference shielding and triboelectric nanogenerator. **2022**, 140606	0
14	Progress in the Foaming of Polymer-based Electromagnetic Interference Shielding Composites by Supercritical CO 2.	0
13	Investigation on the enhancement of electromagnetic shielding with efficient use of short carbon fiber in MWCNT -epoxy nanocomposites.	1
12	Research of Ferric Ion Regulation on a Polyimide/C-MXene Microcellular Composite Film. **2022**, 38, 16156-16162	2
11	Enhanced Electromagnetic Shielding and Thermal Management Properties in MXene/Aramid Nanofiber Films Fabricated by Intermittent Filtration.	0
10	Carbon-based aerogels and foams for electromagnetic interference shielding: A review. **2023**, 205, 10-26	1
9	Versatile Electronic Textile Enabled by a Mixed-Dimensional Assembly Strategy. 2208134	0
8	Recent Advances in MXene Nanocomposites as Electromagnetic Radiation Absorbing Materials.	0
7	Thermally expanded graphite polyetherimide composite with superior electrical and thermal conductivity. **2023**, 298, 127404	0
6	Functional and Structural Facts of Effective Electromagnetic Interference Shielding Materials: A Review. **2023**, 8, 8134-8158	0
5	Porous Carbon Materials and Their Composites for Electromagnetic Interference (EMI) Shielding: The State-of-the-Art of Technologies. **2023**, 669-702	0

4	A REVIEW ON EXFOLIATED GRAPHITE: SYNTHESIS AND APPLICATIONS. **2023**, 110685	0
3	Improved dispersion of reduced graphene oxide in benzoxazine composites via electrostatic interaction with M-cresol.	0
2	Research of NBR/G@Fe3O4 electromagnetic shielding composites. **2023**, 34,	0
1	Reduced Graphene Oxide/Barium Ferrite Ceramic Nanocomposite Synergism for High EMI Wave Absorption.	0