Bin Shen

List of Publications by Year
in descending order

48	5,390	30	47
papers	citations	h-index	g-index
		159525	214721

48	48	48	4268
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Magnetic-electric composite coating with oriented segregated structure for enhanced electromagnetic shielding. Journal of Materials Science and Technology, 2022, 96, 11-20.	5.6	27
2	Biomass-based aligned carbon networks with double-layer construction for tunable electromagnetic shielding with ultra-low reflectivity. Journal of Materials Science and Technology, 2022, 103, 98-104.	5.6	33
3	Structural design of compressible shape-memory foams for smart self-fixable electromagnetic shielding with reduced reflection. Materials Today Physics, 2022, 22, 100612.	2.9	16
4	Multifunctional TPU composite foams with embedded biomass-derived carbon networks for electromagnetic interference shielding. Composites Communications, 2022, 30, 101062.	3.3	12
5	Evaluation, fabrication and dynamic performance regulation of green EMI-shielding materials with low reflectivity: A review. Composites Part B: Engineering, 2022, 233, 109652.	5.9	108
6	Multifunctional Textiles Enabled by Simultaneous Interaction with Infrared and Microwave Electromagnetic Waves. Advanced Materials Interfaces, 2022, 9, .	1.9	9
7	Extruded polypropylene foams with radially gradient porous structures and selective filtration property via supercritical CO2 foaming. Journal of CO2 Utilization, 2022, 60, 101995.	3.3	12
8	Lightweight and compressible anisotropic honeycomb-like graphene composites for highly tunable electromagnetic shielding with multiple functions. Materials Today Physics, 2022, 24, 100695.	2.9	11
9	High-performance porous carbon foams via catalytic pyrolysis of modified isocyanate-based polyimide foams for electromagnetic shielding. Nano Research, 2022, 15, 6851-6859.	5.8	22
10	Controllable growth of NiCo compounds with different morphologies and structures on carbon fabrics as EMI shields with improved absorptivity. Carbon, 2022, 197, 508-518.	5.4	9
11	Construction of shape-memory carbon foam composites for adjustable EMI shielding under self-fixable mechanical deformation. Chemical Engineering Journal, 2021, 405, 126927.	6.6	72
12	Construction of compressible Polymer/MXene composite foams for high-performance absorption-dominated electromagnetic shielding with ultra-low reflectivity. Carbon, 2021, 173, 932-940.	5.4	148
13	Humidification of high-performance and multifunctional polyimide/carbon nanotube composite foams for enhanced electromagnetic shielding. Materials Today Physics, 2021, 21, 100521.	2.9	30
14	Self-templating graphene network composites by flame carbonization for excellent electromagnetic interference shielding. Composites Part B: Engineering, 2020, 182, 107615.	5.9	39
15	Steam-chest molding of polypropylene/carbon black composite foams as broadband EMI shields with high absorptivity. Composites Communications, 2020, 22, 100508.	3.3	39
16	Novel lightweight open-cell polypropylene foams for filtering hazardous materials. RSC Advances, 2020, 10, 17694-17701.	1.7	6
17	Biomimetic porous polypropylene foams with special wettability properties. Composites Part B: Engineering, 2020, 190, 107927.	5.9	26
18	Waterproof MXene-decorated wood-pulp fabrics for high-efficiency electromagnetic interference shielding and Joule heating. Composites Part B: Engineering, 2020, 198, 108250.	5.9	103

#	Article	IF	Citations
19	Porous graphene films with worm-like graphene surface as ultrafast adsorbents for oils and organic solvents. Materials Letters, 2020, 264, 127397.	1.3	6
20	Large-scale fabrication of lightweight, tough polypropylene/carbon black composite foams as broadband microwave absorbers. Composites Communications, 2020, 20, 100358.	3.3	33
21	High-Performance Carbonized Waste Corrugated Boards Reinforced with Epoxy Coating as Lightweight Structured Electromagnetic Shields. ACS Sustainable Chemistry and Engineering, 2019, 7, 18718-18725.	3.2	46
22	Subwavelength Periodic Shielding Materials: Toward Enhanced Shielding of the Incomplete Enclosure. IEEE Microwave and Wireless Components Letters, 2019, 29, 113-115.	2.0	13
23	Novel Straw-Derived Carbon Materials for Electromagnetic Interference Shielding: A Waste-to-Wealth and Sustainable Initiative. ACS Sustainable Chemistry and Engineering, 2019, 7, 9663-9670.	3.2	61
24	Bio-inspired lightweight polypropylene foams with tunable hierarchical tubular porous structure and its application for oil-water separation. Chemical Engineering Journal, 2019, 370, 1322-1330.	6.6	67
25	Analysis of Chemical Structure of Reduced Graphite Oxide Synthesized in Different Reduction Atmospheres. ChemistrySelect, 2019, 4, 1745-1752.	0.7	1
26	Absorptive Surface Based on Graphene Composite for Advanced EMI Suppression. , 2019, , .		4
27	Enhanced dispersion, flame retardancy and mechanical properties of polypropylene/intumescent flame retardant composites via supercritical CO2 foaming followed by defoaming. Composites Science and Technology, 2019, 171, 282-290.	3.8	53
28	Ultrastrong, flexible and lightweight anisotropic polypropylene foams with superior flame retardancy. Composites Part A: Applied Science and Manufacturing, 2019, 116, 180-186.	3.8	47
29	Porous superhydrophobic polymer/carbon composites for lightweight and self-cleaning EMI shielding application. Composites Science and Technology, 2018, 158, 86-93.	3.8	147
30	Carbon Composite Networks with Ultrathin Skin Layers of Graphene Film for Exceptional Electromagnetic Interference Shielding. ACS Applied Materials & Interfaces, 2018, 10, 38255-38263.	4.0	73
31	Semi-transparent biomass-derived macroscopic carbon grids for efficient and tunable electromagnetic shielding. Carbon, 2018, 139, 271-278.	5.4	68
32	Analysis of oxidation degree of graphite oxide and chemical structure of corresponding reduced graphite oxide by selecting different-sized original graphite. RSC Advances, 2018, 8, 17209-17217.	1.7	71
33	A Rasorber-Like Waveguide Based on Thin Film. IEEE Microwave and Wireless Components Letters, 2018, 28, 558-560.	2.0	4
34	One-Pot Sintering Strategy for Efficient Fabrication of High-Performance and Multifunctional Graphene Foams. ACS Applied Materials & Interfaces, 2017, 9, 13323-13330.	4.0	40
35	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.	3.8	179
36	Strong flexible polymer/graphene composite films with 3D saw-tooth folding for enhanced and tunable electromagnetic shielding. Carbon, 2017, 113, 55-62.	5.4	159

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37	Ultrathin carbon foams for effective electromagnetic interference shielding. Carbon, 2016, 100, 375-385.	5.4	177
38	Compressible Graphene-Coated Polymer Foams with Ultralow Density for Adjustable Electromagnetic Interference (EMI) Shielding. ACS Applied Materials & Interfaces, 2016, 8, 8050-8057.	4.0	448
39	Microcellular graphene foam for improved broadband electromagnetic interference shielding. Carbon, 2016, 102, 154-160.	5.4	326
40	Polyimide/graphene composite foam sheets with ultrahigh thermostability for electromagnetic interference shielding. RSC Advances, 2015, 5, 24342-24351.	1.7	227
41	Accelerating the graphitization process of polyimide by addition of graphene. Journal of Applied Polymer Science, 2015, 132, .	1.3	12
42	Ultrathin Flexible Graphene Film: An Excellent Thermal Conducting Material with Efficient EMI Shielding. Advanced Functional Materials, 2014, 24, 4542-4548.	7.8	751
43	Lightweight, Multifunctional Polyetherimide/Graphene@Fe₃O₄ Composite Foams for Shielding of Electromagnetic Pollution. ACS Applied Materials & Interfaces, 2013, 5, 11383-11391.	4.0	557
44	Synthesis of graphene by low-temperature exfoliation and reduction of graphite oxide under ambient atmosphere. Journal of Materials Chemistry C, 2013, 1, 50-53.	2.7	112
45	Facile Preparation of Lightweight Microcellular Polyetherimide/Graphene Composite Foams for Electromagnetic Interference Shielding. ACS Applied Materials & Interfaces, 2013, 5, 2677-2684.	4.0	692
46	Fabrication of microcellular polymer/graphene nanocomposite foams. Polymer International, 2012, 61, 1693-1702.	1.6	30
47	Ultrasonication-assisted direct functionalization of graphene with macromolecules. RSC Advances, 2012, 2, 4713.	1.7	57
48	Melt Blending In situ Enhances the Interaction between Polystyrene and Graphene through Ï€â€“Ï€ Stacking. ACS Applied Materials & Interfaces, 2011, 3, 3103-3109.	4.0	207