

Hao-Bin Zhang

List of Publications by Year in descending order

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76
papers

13,417
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38738

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71682

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docs citations

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times ranked

10197
citing authors

#	ARTICLE	IF	CITATIONS
1	Tough and electrically conductive Ti ₃ C ₂ T MXene-based core-shell fibers for high-performance electromagnetic interference shielding and heating application. <i>Chemical Engineering Journal</i> , 2022, 430, 133074.	12.7	43
2	Strong and conductive reduced graphene oxide-MXene porous films for efficient electromagnetic interference shielding. <i>Nano Research</i> , 2022, 15, 4916-4924.	10.4	53
3	Functional Polyaniline/MXene/Cotton Fabrics with Acid/Alkali-Responsive and Tunable Electromagnetic Interference Shielding Performances. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 12703-12712.	8.0	58
4	3D printing of resilient, lightweight and conductive MXene/reduced graphene oxide architectures for broadband electromagnetic interference shielding. <i>Journal of Materials Chemistry A</i> , 2022, 10, 11375-11385.	10.3	50
5	Tough, Strong, and Conductive Graphene Fibers by Optimizing Surface Chemistry of Graphene Oxide Precursor. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	35
6	Super-Tough and Environmentally Stable Aramid. Nanofiber@MXene Coaxial Fibers with Outstanding Electromagnetic Interference Shielding Efficiency. <i>Nano-Micro Letters</i> , 2022, 14, 111.	27.0	70
7	Realizing Spontaneously Regular Stacking of Pristine Graphene Oxide by a Chemical-Structure-Engineering Strategy for Mechanically Strong Macroscopic Films. <i>ACS Nano</i> , 2022, 16, 8869-8880.	14.6	25
8	Transparent, conductive and flexible MXene grid/silver nanowire hierarchical films for high-performance electromagnetic interference shielding. <i>Journal of Materials Chemistry A</i> , 2022, 10, 14364-14373.	10.3	28
9	Photothermal healable, stretchable, and conductive MXene composite films for efficient electromagnetic interference shielding. <i>Carbon</i> , 2022, 198, 179-187.	10.3	38
10	Smart MXene-Based Janus films with multi-responsive actuation capability and high electromagnetic interference shielding performances. <i>Carbon</i> , 2021, 175, 594-602.	10.3	90
11	Multifunctional Magnetic Ti ₃ C ₂ T MXene/Graphene Aerogel with Superior Electromagnetic Wave Absorption Performance. <i>ACS Nano</i> , 2021, 15, 6622-6632.	14.6	503
12	Electrically Conductive Ti ₃ C ₂ T MXene/Polypropylene Nanocomposites with an Ultralow Percolation Threshold for Efficient Electromagnetic Interference Shielding. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 4342-4350.	3.7	49
13	Kirigami-Inspired Highly Stretchable, Conductive, and Hierarchical Ti ₃ C ₂ T MXene Films for Efficient Electromagnetic Interference Shielding and Pressure Sensing. <i>ACS Nano</i> , 2021, 15, 7668-7681.	14.6	187
14	Superelastic, Ultralight, and Conductive Ti ₃ C ₂ T MXene/Acidified Carbon Nanotube Anisotropic Aerogels for Electromagnetic Interference Shielding. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 20539-20547.	8.0	135
15	Direct Ink Writing of Highly Conductive MXene Frames for Tunable Electromagnetic Interference Shielding and Electromagnetic Wave-Induced Thermochromism. <i>Nano-Micro Letters</i> , 2021, 13, 148.	27.0	96
16	Multifunctional Ti ₃ C ₂ T MXene/Low-Density Polyethylene Soft Robots with Programmable Configuration for Amphibious Motions. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 45833-45842.	8.0	29
17	Compressible, durable and conductive polydimethylsiloxane-coated MXene foams for high-performance electromagnetic interference shielding. <i>Chemical Engineering Journal</i> , 2020, 381, 122622.	12.7	289
18	Electrically conductive aluminum ion-reinforced MXene films for efficient electromagnetic interference shielding. <i>Journal of Materials Chemistry C</i> , 2020, 8, 1673-1678.	5.5	83

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19	Ultrastrong and Highly Conductive MXene-Based Films for High-Performance Electromagnetic Interference Shielding. <i>Advanced Electronic Materials</i> , 2020, 6, 1901094.	5.1	120
20	Highly sensitive, robust and anisotropic MXene aerogels for efficient broadband microwave absorption. <i>Composites Part B: Engineering</i> , 2020, 200, 108263.	12.0	134
21	Flexible, Transparent, and Conductive Ti_3C_2Tx MXene-Silver Nanowire Films with Smart Acoustic Sensitivity for High-Performance Electromagnetic Interference Shielding. <i>ACS Nano</i> , 2020, 14, 16643-16653.	14.6	270
22	Janus MXene nanosheets for macroscopic assemblies. <i>Materials Chemistry Frontiers</i> , 2020, 4, 910-917.	5.9	47
23	Flexible, stretchable and electrically conductive MXene/natural rubber nanocomposite films for efficient electromagnetic interference shielding. <i>Composites Science and Technology</i> , 2019, 182, 107754.	7.8	197
24	Flexible and Multifunctional Silk Textiles with Biomimetic Leaf-Like MXene/Silver Nanowire Nanostructures for Electromagnetic Interference Shielding, Humidity Monitoring, and Self-Derived Hydrophobicity. <i>Advanced Functional Materials</i> , 2019, 29, 1905197.	14.9	490
25	Self-Assembly of MXene-Surfactants at Liquid-Liquid Interfaces: From Structured Liquids to 3D Aerogels. <i>Angewandte Chemie</i> , 2019, 131, 18339-18344.	2.0	14
26	Self-Assembly of MXene-Surfactants at Liquid-Liquid Interfaces: From Structured Liquids to 3D Aerogels. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 18171-18176.	13.8	166
27	Lightweight Fe@C hollow microspheres with tunable cavity for broadband microwave absorption. <i>Composites Part B: Engineering</i> , 2019, 177, 107346.	12.0	89
28	Highly sensitive, reliable and flexible piezoresistive pressure sensors featuring polyurethane sponge coated with MXene sheets. <i>Journal of Colloid and Interface Science</i> , 2019, 542, 54-62.	9.4	248
29	Nanolayered Cobalt@Carbon Hybrids Derived from Metal-Organic Frameworks for Microwave Absorption. <i>ACS Applied Nano Materials</i> , 2019, 2, 2325-2335.	5.0	89
30	Electrically Conductive and Flame Retardant Graphene/Brominated Polystyrene/Maleic Anhydride Grafted High Density Polyethylene Nanocomposites with Satisfactory Mechanical Properties. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2019, 37, 509-517.	3.8	18
31	Controllable synthesis of hollow microspheres with Fe@Carbon dual-shells for broad bandwidth microwave absorption. <i>Carbon</i> , 2019, 147, 172-181.	10.3	130
32	Multifunctional and Water-Resistant MXene-Decorated Polyester Textiles with Outstanding Electromagnetic Interference Shielding and Joule Heating Performances. <i>Advanced Functional Materials</i> , 2019, 29, 1806819.	14.9	584
33	Simultaneous enhancements in electrical conductivity and toughness of selectively foamed polycarbonate/polystyrene/carbon nanotube microcellular foams. <i>Composites Part B: Engineering</i> , 2018, 143, 161-167.	12.0	52
34	Superelastic and multifunctional graphene-based aerogels by interfacial reinforcement with graphitized carbon at high temperatures. <i>Carbon</i> , 2018, 132, 95-103.	10.3	128
35	Multifunctional, Superelastic, and Lightweight MXene/Polyimide Aerogels. <i>Small</i> , 2018, 14, e1802479.	10.0	418
36	Highly Electrically Conductive Three-Dimensional Ti_3C_2Tx MXene/Reduced Graphene Oxide Hybrid Aerogels with Excellent Electromagnetic Interference Shielding Performances. <i>ACS Nano</i> , 2018, 12, 11193-11202.	14.6	671

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37	Highly Efficient High-Pressure Homogenization Approach for Scalable Production of High-Quality Graphene Sheets and Sandwich-Structured $\text{Fe}_2\text{O}_3/\text{Graphene}$ Hybrids for High-Performance Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 11025-11034.	8.0	75
38	One-Pot Sintering Strategy for Efficient Fabrication of High-Performance and Multifunctional Graphene Foams. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 13323-13330.	8.0	40
39	Graphene-coated ZnO tetrapod whiskers for thermally and electrically conductive epoxy composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 94, 104-112.	7.6	47
40	Highly Conductive Transition Metal Carbide/Carbonitride(MXene)/polystyrene Nanocomposites Fabricated by Electrostatic Assembly for Highly Efficient Electromagnetic Interference Shielding. <i>Advanced Functional Materials</i> , 2017, 27, 1702807.	14.9	620
41	Phenolic resin-enhanced three-dimensional graphene aerogels and their epoxy nanocomposites with high mechanical and electromagnetic interference shielding performances. <i>Composites Science and Technology</i> , 2017, 152, 254-262.	7.8	106
42	Hydrophobic, Flexible, and Lightweight MXene Foams for High-Performance Electromagnetic Interference Shielding. <i>Advanced Materials</i> , 2017, 29, 1702367.	21.0	1,364
43	Magnetic, electrically conductive and lightweight graphene/iron pentacarbonyl porous films enhanced with chitosan for highly efficient broadband electromagnetic interference shielding. <i>Composites Science and Technology</i> , 2017, 151, 71-78.	7.8	58
44	High-Performance Epoxy Nanocomposites Reinforced with Three-Dimensional Carbon Nanotube Sponge for Electromagnetic Interference Shielding. <i>Advanced Functional Materials</i> , 2016, 26, 447-455.	14.9	579
45	In situ reduction of iron oxide with graphene for convenient synthesis of various graphene hybrids. <i>Carbon</i> , 2016, 107, 138-145.	10.3	13
46	Decoration of defect-free graphene nanoplatelets with alumina for thermally conductive and electrically insulating epoxy composites. <i>Composites Science and Technology</i> , 2016, 137, 16-23.	7.8	110
47	Enhanced thermal conductivity and satisfactory flame retardancy of epoxy/alumina composites by combination with graphene nanoplatelets and magnesium hydroxide. <i>Composites Part B: Engineering</i> , 2016, 98, 134-140.	12.0	117
48	Supercritical carbon dioxide fluid assisted synthesis of hierarchical $\text{AlOOH}/\text{reduced graphene oxide}$ hybrids for efficient removal of fluoride ions. <i>Chemical Engineering Journal</i> , 2016, 292, 174-182.	12.7	36
49	FeCl_3 intercalated few-layer graphene for high lithium-ion storage performance. <i>Journal of Materials Chemistry A</i> , 2015, 3, 15498-15504.	10.3	38
50	Magnetic and electrically conductive epoxy/graphene/carbonyl iron nanocomposites for efficient electromagnetic interference shielding. <i>Composites Science and Technology</i> , 2015, 118, 178-185.	7.8	107
51	Enhanced electromagnetic interference shielding efficiency of polystyrene/graphene composites with magnetic Fe_3O_4 nanoparticles. <i>Carbon</i> , 2015, 82, 67-76.	10.3	292
52	Electrically conductive polycarbonate/carbon nanotube composites toughened with micron-scale voids. <i>Carbon</i> , 2015, 82, 195-204.	10.3	60
53	Improved rheological and electrical properties of graphene/polystyrene nanocomposites modified with styrene maleic anhydride copolymer. <i>Composites Science and Technology</i> , 2014, 102, 176-182.	7.8	24
54	In situ chemical reduction and functionalization of graphene oxide for electrically conductive phenol formaldehyde composites. <i>Carbon</i> , 2014, 68, 653-661.	10.3	95

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55	Thermally conductive and electrically insulating epoxy nanocomposites with silica-coated graphene. <i>RSC Advances</i> , 2014, 4, 15297-15303.	3.6	93
56	The Effect of Surface Chemistry of Graphene on Cellular Structures and Electrical Properties of Polycarbonate Nanocomposite Foams. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 4697-4703.	3.7	34
57	Electrically conductive rubbery epoxy/diamine-functionalized graphene nanocomposites with improved mechanical properties. <i>Composites Part B: Engineering</i> , 2014, 67, 564-570.	12.0	74
58	Simultaneous functionalization and reduction of graphene oxide with polyetheramine and its electrically conductive epoxy nanocomposites. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2014, 32, 975-985.	3.8	24
59	Thermally conductive phenol formaldehyde composites filled with carbon fillers. <i>Materials Letters</i> , 2014, 118, 212-216.	2.6	33
60	Simultaneous Improvement in Both Electrical Conductivity and Toughness of Polyamide 6 Nanocomposites Filled with Elastomer and Carbon Black Particles. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 2270-2276.	3.7	33
61	Three dimensional graphene aerogels and their electrically conductive composites. <i>Carbon</i> , 2014, 77, 592-599.	10.3	220
62	Synergistic effect of boron nitride flakes and tetrapod-shaped ZnO whiskers on the thermal conductivity of electrically insulating phenol formaldehyde composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2013, 53, 137-144.	7.6	94
63	Structural evolution of functionalized graphene sheets during solvothermal reduction. <i>Carbon</i> , 2013, 56, 132-138.	10.3	45
64	Functionalization and Reduction of Graphene Oxide with <i>p</i> -Phenylene Diamine for Electrically Conductive and Thermally Stable Polystyrene Composites. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 1948-1953.	8.0	195
65	The effect of surface chemistry of graphene on rheological and electrical properties of polymethylmethacrylate composites. <i>Carbon</i> , 2012, 50, 5117-5125.	10.3	294
66	Improved Electrical Conductivity of Polyamide 12/Graphene Nanocomposites with Maleated Polyethylene-Octene Rubber Prepared by Melt Compounding. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 4740-4745.	8.0	102
67	In situ thermal reduction of graphene oxide for high electrical conductivity and low percolation threshold in polyamide 6 nanocomposites. <i>Composites Science and Technology</i> , 2012, 72, 284-289.	7.8	130
68	Vacuum-assisted synthesis of graphene from thermal exfoliation and reduction of graphite oxide. <i>Journal of Materials Chemistry</i> , 2011, 21, 5392.	6.7	192
69	Tough Graphene-Polymer Microcellular Foams for Electromagnetic Interference Shielding. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 918-924.	8.0	979
70	Growth of silver nanocrystals on graphene by simultaneous reduction of graphene oxide and silver ions with a rapid and efficient one-step approach. <i>Chemical Communications</i> , 2011, 47, 3084.	4.1	208
71	A Facile Approach to the Synthesis of Graphene Nanosheets Under Ultra-Low Exfoliation Temperature. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 10868-10870.	0.9	3
72	A facile method to prepare stable noncovalent functionalized graphene solution by using thionine. <i>Materials Research Bulletin</i> , 2011, 46, 583-587.	5.2	57

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73	Simultaneous surface functionalization and reduction of graphene oxide with octadecylamine for electrically conductive polystyrene composites. <i>Carbon</i> , 2011, 49, 4724-4730.	10.3	365
74	Preparation and Characterization of Water-soluble Graphene and Highly Conducting Films. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2011, 26, 707-710.	1.3	5
75	Electrically conductive polyethylene terephthalate/graphene nanocomposites prepared by melt compounding. <i>Polymer</i> , 2010, 51, 1191-1196.	3.8	717
76	Poly(ethylene terephthalate)/attapulgite nanocomposites: Preparation, structure, and properties. <i>Journal of Applied Polymer Science</i> , 2008, 110, 140-146.	2.6	13