Hao-Bin Zhang

List of Publications by Year
in descending order

76 papers	13,417 citations	38742 50 h-index	71685 76 g-index
76 all docs	76 docs citations	76 times ranked	10197 citing authors

#	Article	IF	Citations
1	Tough and electrically conductive Ti3C2T MXeneâ€“based coreâ€“shell fibers for highâ€“performance electromagnetic interference shielding and heating application. Chemical Engineering Journal, 2022, 430, 133074.	12.7	43
2	Strong and conductive reduced graphene oxide-MXene porous films for efficient electromagnetic interference shielding. Nano Research, 2022, 15, 4916-4924.	10.4	53
3	Functional Polyaniline/MXene/Cotton Fabrics with Acid/Alkali-Responsive and Tunable Electromagnetic Interference Shielding Performances. ACS Applied Materials & Interfaces, 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. Journal of Materials Chemistry A, 2022, 10, 11375-11385.	10.3	50
5	Tough, Strong, and Conductive Graphene Fibers by Optimizing Surface Chemistry of Graphene Oxide Precursor. Advanced Functional Materials, 2022, 32, .	14.9	35
6	Super-Tough and Environmentally Stable Aramid. Nanofiber@MXene Coaxial Fibers with Outstanding Electromagnetic Interference Shielding Efficiency. Nano-Micro Letters, 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. ACS Nano, 2022, 16, 8869-8880.	14.6	25
8	Transparent, conductive and flexible MXene grid/silver nanowire hierarchical films for high-performance electromagnetic interference shielding. Journal of Materials Chemistry A, 2022, 10, 14364-14373.	10.3	28
9	Photothermal healable, stretchable, and conductive MXene composite films for efficient electromagnetic interference shielding. Carbon, 2022, 198, 179-187.	10.3	38
10	Smart MXene-Based Janus films with multi-responsive actuation capability and high electromagnetic interference shielding performances. Carbon, 2021, 175, 594-602.	10.3	90
11	Multifunctional Magnetic Ti₃C₂T_{<i>x</i>} MXene/Graphene Aerogel with Superior Electromagnetic Wave Absorption Performance. ACS Nano, 2021, 15, 6622-6632.	14.6	503
12	Electrically Conductive Ti₃C₂T_{<i>x</i>} MXene/Polypropylene Nanocomposites with an Ultralow Percolation Threshold for Efficient Electromagnetic Interference Shielding. Industrial & Engineering Chemistry Research, 2021, 60, 4342-4350.	3.7	49
13	Kirigami-Inspired Highly Stretchable, Conductive, and Hierarchical Ti₃C₂T_{<i>x</i>} MXene Films for Efficient Electromagnetic Interference Shielding and Pressure Sensing. ACS Nano, 2021, 15, 7668-7681.	14.6	187
14	Superelastic, Ultralight, and Conductive Ti₃C₂T<i>_x</i> MXene/Acidified Carbon Nanotube Anisotropic Aerogels for Electromagnetic Interference Shielding. ACS Applied Materials & Interfaces, 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. Nano-Micro Letters, 2021, 13, 148.	27.0	96
16	Multifunctional Ti₃C₂T_{<i>x</i>} MXene/Low-Density Polyethylene Soft Robots with Programmable Configuration for Amphibious Motions. ACS Applied Materials & Interfaces, 2021, 13, 45833-45842.	8.0	29
17	Compressible, durable and conductive polydimethylsiloxane-coated MXene foams for high-performance electromagnetic interference shielding. Chemical Engineering Journal, 2020, 381, 122622.	12.7	289
18	Electrically conductive aluminum ion-reinforced MXene films for efficient electromagnetic interference shielding. Journal of Materials Chemistry C, 2020, 8, 1673-1678.	5.5	83

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19	Ultrastrong and Highly Conductive MXeneâ€Based Films for Highâ€Performance Electromagnetic Interference Shielding. Advanced Electronic Materials, 2020, 6, 1901094.	5.1	120
20	Highly sensitive, robust and anisotropic MXene aerogels for efficient broadband microwave absorption. Composites Part B: Engineering, 2020, 200, 108263.	12.0	134
21	Flexible, Transparent, and Conductive Ti₃C₂T_{<i>x</i>} MXeneâ€“Silver Nanowire Films with Smart Acoustic Sensitivity for High-Performance Electromagnetic Interference Shielding. ACS Nano, 2020, 14, 16643-16653.	14.6	270
22	Janus MXene nanosheets for macroscopic assemblies. Materials Chemistry Frontiers, 2020, 4, 910-917.	5.9	47
23	Flexible, stretchable and electrically conductive MXene/natural rubber nanocomposite films for efficient electromagnetic interference shielding. Composites Science and Technology, 2019, 182, 107754.	7.8	197
24	Flexible and Multifunctional Silk Textiles with Biomimetic Leafâ€Like MXene/Silver Nanowire Nanostructures for Electromagnetic Interference Shielding, Humidity Monitoring, and Selfâ€Derived Hydrophobicity. Advanced Functional Materials, 2019, 29, 1905197.	14.9	490
25	Selfâ€Assembly of MXeneâ€Surfactants at Liquidâ€“Liquid Interfaces: From Structured Liquids to 3D Aerogels. Angewandte Chemie, 2019, 131, 18339-18344.	2.0	14
26	Selfâ€Assembly of MXeneâ€Surfactants at Liquidâ€“Liquid Interfaces: From Structured Liquids to 3D Aerogels. Angewandte Chemie - International Edition, 2019, 58, 18171-18176.	13.8	166
27	Lightweight Fe@C hollow microspheres with tunable cavity for broadband microwave absorption. Composites Part B: Engineering, 2019, 177, 107346.	12.0	89
28	Highly sensitive, reliable and flexible piezoresistive pressure sensors featuring polyurethane sponge coated with MXene sheets. Journal of Colloid and Interface Science, 2019, 542, 54-62.	9.4	248
29	Nanolayered Cobalt@Carbon Hybrids Derived from Metalâ€“Organic Frameworks for Microwave Absorption. ACS Applied Nano Materials, 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. Chinese Journal of Polymer Science (English Edition), 2019, 37, 509-517.	3.8	18
31	Controllable synthesis of hollow microspheres with Fe@Carbon dual-shells for broad bandwidth microwave absorption. Carbon, 2019, 147, 172-181.	10.3	130
32	Multifunctional and Waterâ€Resistant MXeneâ€Decorated Polyester Textiles with Outstanding Electromagnetic Interference Shielding and Joule Heating Performances. Advanced Functional Materials, 2019, 29, 1806819.	14.9	584
33	Simultaneous enhancements in electrical conductivity and toughness of selectively foamed polycarbonate/polystyrene/carbon nanotube microcellular foams. Composites Part B: Engineering, 2018, 143, 161-167.	12.0	52
34	Superelastic and multifunctional graphene-based aerogels by interfacial reinforcement with graphitized carbon at high temperatures. Carbon, 2018, 132, 95-103.	10.3	128
35	Multifunctional, Superelastic, and Lightweight MXene/Polyimide Aerogels. Small, 2018, 14, e1802479.	10.0	418
36	Highly Electrically Conductive Three-Dimensional Ti₃C₂T_{<i>x</i>} MXene/Reduced Graphene Oxide Hybrid Aerogels with Excellent Electromagnetic Interference Shielding Performances. ACS Nano, 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 Î±-Fe₂O₃/Graphene Hybrids for High-Performance Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 11025-11034.	8.0	75
38	One-Pot Sintering Strategy for Efficient Fabrication of High-Performance and Multifunctional Graphene Foams. ACS Applied Materials & Interfaces, 2017, 9, 13323-13330.	8.0	40
39	Graphene-coated ZnO tetrapod whiskers for thermally and electrically conductive epoxy composites. Composites Part A: Applied Science and Manufacturing, 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. Advanced Functional Materials, 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. Composites Science and Technology, 2017, 152, 254-262.	7.8	106
42	Hydrophobic, Flexible, and Lightweight MXene Foams for Highâ€Performance Electromagneticâ€Interference Shielding. Advanced Materials, 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. Composites Science and Technology, 2017, 151, 71-78.	7.8	58
44	Highâ€Performance Epoxy Nanocomposites Reinforced with Threeâ€Dimensional Carbon Nanotube Sponge for Electromagnetic Interference Shielding. Advanced Functional Materials, 2016, 26, 447-455.	14.9	579
45	In situ reduction of iron oxide with graphene for convenient synthesis of various graphene hybrids. Carbon, 2016, 107, 138-145.	10.3	13
46	Decoration of defect-free graphene nanoplatelets with alumina for thermally conductive and electrically insulating epoxy composites. Composites Science and Technology, 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. Composites Part B: Engineering, 2016, 98, 134-140.	12.0	117
48	Supercritical carbon dioxide fluid assisted synthesis of hierarchical AlOOH@reduced graphene oxide hybrids for efficient removal of fluoride ions. Chemical Engineering Journal, 2016, 292, 174-182.	12.7	36
49	FeCl₃intercalated few-layer graphene for high lithium-ion storage performance. Journal of Materials Chemistry A, 2015, 3, 15498-15504.	10.3	38
50	Magnetic and electrically conductive epoxy/graphene/carbonyl iron nanocomposites for efficient electromagnetic interference shielding. Composites Science and Technology, 2015, 118, 178-185.	7.8	107
51	Enhanced electromagnetic interference shielding efficiency of polystyrene/graphene composites with magnetic Fe3O4 nanoparticles. Carbon, 2015, 82, 67-76.	10.3	292
52	Electrically conductive polycarbonate/carbon nanotube composites toughened with micron-scale voids. Carbon, 2015, 82, 195-204.	10.3	60
53	Improved rheological and electrical properties of graphene/polystyrene nanocomposites modified with styrene maleic anhydride copolymer. Composites Science and Technology, 2014, 102, 176-182.	7.8	24
54	In situ chemical reduction and functionalization of graphene oxide for electrically conductive phenol formaldehyde composites. Carbon, 2014, 68, 653-661.	10.3	95

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55	Thermally conductive and electrically insulating epoxy nanocomposites with silica-coated graphene. RSC Advances, 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. Industrial & Engineering Chemistry Research, 2014, 53, 4697-4703.	3.7	34
57	Electrically conductive rubbery epoxy/diamine-functionalized graphene nanocomposites with improved mechanical properties. Composites Part B: Engineering, 2014, 67, 564-570.	12.0	74
58	Simultaneous functionalization and reduction of graphene oxide with polyetheramine and its electrically conductive epoxy nanocomposites. Chinese Journal of Polymer Science (English Edition), 2014, 32, 975-985.	3.8	24
59	Thermally conductive phenol formaldehyde composites filled with carbon fillers. Materials Letters, 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. Industrial & Engineering Chemistry Research, 2014, 53, 2270-2276.	3.7	33
61	Three dimensional graphene aerogels and their electrically conductive composites. Carbon, 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. Composites Part A: Applied Science and Manufacturing, 2013, 53, 137-144.	7.6	94
63	Structural evolution of functionalized graphene sheets during solvothermal reduction. Carbon, 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. ACS Applied Materials & Interfaces, 2012, 4, 1948-1953.	8.0	195
65	The effect of surface chemistry of graphene on rheological and electrical properties of polymethylmethacrylate composites. Carbon, 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. ACS Applied Materials & Interfaces, 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. Composites Science and Technology, 2012, 72, 284-289.	7.8	130
68	Vacuum-assisted synthesis of graphene from thermal exfoliation and reduction of graphite oxide. Journal of Materials Chemistry, 2011, 21, 5392.	6.7	192
69	Tough Grapheneâˆ’Polymer Microcellular Foams for Electromagnetic Interference Shielding. ACS Applied Materials & Interfaces, 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. Chemical Communications, 2011, 47, 3084.	4.1	208
71	A Facile Approach to the Synthesis of Graphene Nanosheets Under Ultra-Low Exfoliation Temperature. Journal of Nanoscience and Nanotechnology, 2011, 11, 10868-10870.	0.9	3
72	A facile method to prepare stable noncovalent functionalized graphene solution by using thionine. Materials Research Bulletin, 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. Carbon, 2011, 49, 4724-4730.	10.3	365
74	Preparation and Characterization of Water-soluble Graphene and Highly Conducting Films. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2011, 26, 707-710.	1.3	5
75	Electrically conductive polyethylene terephthalate/graphene nanocomposites prepared by melt compounding. Polymer, 2010, 51, 1191-1196.	3.8	717
76	Poly(ethylene terephthalate)/attapulgite nanocomposites: Preparation, structure, and properties. Journal of Applied Polymer Science, 2008, 110, 140-146.	2.6	13