Zhong-Zhen Yu

List of Publications by Citations

282 papers	24,072 citations	80 h-index	149 g-index
295 ext. papers	28,210 ext. citations	8.4 avg, IF	7.37 L-index

#	Paper	IF	Citations
282	Enhanced mechanical properties of nanocomposites at low graphene content. *ACS Nano*, **2009**, 3, 3884-90	16.7	2005
281	Hydrophobic, Flexible, and Lightweight MXene Foams for High-Performance Electromagnetic-Interference Shielding. *Advanced Materials*, **2017**, 29, 1702367	24	903
280	Tough graphene-polymer microcellular foams for electromagnetic interference shielding. *ACS Applied Materials & Interfaces*, **2011**, 3, 918-24	9.5	833
279	Fracture and fatigue in graphene nanocomposites. *Small*, **2010**, 6, 179-83	11	696
278	Electrically conductive polyethylene terephthalate/graphene nanocomposites prepared by melt compounding. *Polymer*, **2010**, 51, 1191-1196	3.9	609
277	High-Performance Epoxy Nanocomposites Reinforced with Three-Dimensional Carbon Nanotube Sponge for Electromagnetic Interference Shielding. *Advanced Functional Materials*, **2016**, 26, 447-455	15.6	470
276	Highly Electrically Conductive Three-Dimensional TiCT MXene/Reduced Graphene Oxide Hybrid Aerogels with Excellent Electromagnetic Interference Shielding Performances. *ACS Nano*, **2018**, 12, 11193-11202	16.7	409
275	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	15.6	407
274	Recent developments in the fire retardancy of polymeric materials. *Progress in Polymer Science*, **2013**, 38, 1357-1387	29.6	405
273	Tough and highly stretchable graphene oxide/polyacrylamide nanocomposite hydrogels. *Journal of Materials Chemistry*, **2012**, 22, 14160		375
272	Multifunctional and Water-Resistant MXene-Decorated Polyester Textiles with Outstanding Electromagnetic Interference Shielding and Joule Heating Performances. *Advanced Functional Materials*, **2019**, 29, 1806819	15.6	350
271	Enhanced Thermal Conductivity in a Nanostructured Phase Change Composite due to Low Concentration Graphene Additives. *Journal of Physical Chemistry C*, **2011**, 115, 8753-8758	3.8	330
270	Simultaneous surface functionalization and reduction of graphene oxide with octadecylamine for electrically conductive polystyrene composites. *Carbon*, **2011**, 49, 4724-4730	10.4	322
269	Superhydrophobic to superhydrophilic wetting control in graphene films. *Advanced Materials*, **2010**, 22, 2151-4	24	321
268	Cellulose/graphene aerogel supported phase change composites with high thermal conductivity and good shape stability for thermal energy storage. *Carbon*, **2016**, 98, 50-57	10.4	300
267	Rheological and mechanical properties of PVC/CaCO3 nanocomposites prepared by in situ polymerization. *Polymer*, **2004**, 45, 6665-6673	3.9	285
266	Flexible and Multifunctional Silk Textiles with Biomimetic Leaf-Like MXene/Silver Nanowire Nanostructures for Electromagnetic Interference Shielding, Humidity Monitoring, and Self-Derived Hydrophobicity. *Advanced Functional Materials*, **2019**, 29, 1905197	15.6	284

265	Crystallization and impact energy of polypropylene/CaCO3 nanocomposites with nonionic modifier. *Polymer*, **2004**, 45, 5985-5994	3.9	269
264	A new process of fabricating electrically conducting nylon 6/graphite nanocomposites via intercalation polymerization. *Journal of Polymer Science, Part B: Polymer Physics*, **2000**, 38, 1626-1633	2.6	263
263	The effect of surface chemistry of graphene on rheological and electrical properties of polymethylmethacrylate composites. *Carbon*, **2012**, 50, 5117-5125	10.4	250
262	Multifunctional, Superelastic, and Lightweight MXene/Polyimide Aerogels. *Small*, **2018**, 14, e1802479	11	246
261	Polypropylene/Graphene Oxide Nanocomposites Prepared by In Situ Ziegler□Natta Polymerization. *Chemistry of Materials*, **2010**, 22, 4096-4102	9.6	245
260	Enhanced electromagnetic interference shielding efficiency of polystyrene/graphene composites with magnetic Fe3O4 nanoparticles. *Carbon*, **2015**, 82, 67-76	10.4	242
259	Chemical reduction and removal of Cr(VI) from acidic aqueous solution by ethylenediamine-reduced graphene oxide. *Journal of Materials Chemistry*, **2012**, 22, 5914		242
258	A new conception on the toughness of nylon 6/silica nanocomposite prepared via in situ polymerization. *Journal of Polymer Science, Part B: Polymer Physics*, **1998**, 36, 789-795	2.6	225
257	Polyamide 6/silica nanocomposites prepared by in situ polymerization. *Journal of Applied Polymer Science*, **1998**, 69, 355-361	2.9	210
256	Facile synthesis of well-dispersed graphene by □ray induced reduction of graphene oxide. *Journal of Materials Chemistry*, **2012**, 22, 13064		204
255	Enhanced electrical conductivity in polystyrene nanocomposites at ultra-low graphene content. *ACS Applied Materials & Interfaces*, **2011**, 3, 3130-3	9.5	202
254	Dramatic increase in fatigue life in hierarchical graphene composites. *ACS Applied Materials & Interfaces*, **2010**, 2, 2738-43	9.5	201
253	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
252	Graphene Oxide/Chitosan Aerogel Microspheres with Honeycomb-Cobweb and Radially Oriented Microchannel Structures for Broad-Spectrum and Rapid Adsorption of Water Contaminants. *ACS Applied Materials & Interfaces*, **2017**, 9, 21809-21819	9.5	196
251	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, 3084-6	5.8	192
250	Three dimensional graphene aerogels and their electrically conductive composites. *Carbon*, **2014**, 77, 592-599	10.4	191
249	Suppression of wear in graphene polymer composites. *Carbon*, **2012**, 50, 3178-3183	10.4	190
248	Buckling resistant graphene nanocomposites. *Applied Physics Letters*, **2009**, 95, 223103	3.4	188

247	Enhanced thermal stability in graphene oxide covalently functionalized with 2-amino-4,6-didodecylamino-1,3,5-triazine. *Carbon*, **2011**, 49, 1258-1265	10.4	186
246	Highly compressible anisotropic graphene aerogels fabricated by directional freezing for efficient absorption of organic liquids. *Carbon*, **2016**, 100, 456-464	10.4	185
245	Fundamental aspects and recent progress on wear/scratch damage in polymer nanocomposites. *Materials Science and Engineering Reports*, **2009**, 63, 31-80	30.9	183
244	Sandwichlike magnesium silicate/reduced graphene oxide nanocomposite for enhanced Pb□+ and methylene blue adsorption. *ACS Applied Materials & Interfaces*, **2014**, 6, 14653-9	9.5	177
243	Vacuum-assisted synthesis of graphene from thermal exfoliation and reduction of graphite oxide. *Journal of Materials Chemistry*, **2011**, 21, 5392		177
242	A new approach to polymer/montmorillonite nanocomposites. *Polymer*, **2003**, 44, 4619-4624	3.9	177
241	Functionalization and reduction of graphene oxide with p-phenylene diamine for electrically conductive and thermally stable polystyrene composites. *ACS Applied Materials & Interfaces*, **2012**, 4, 1948-53	9.5	169
240	The effect of graphite oxide on the thermoelectric properties of polyaniline. *Carbon*, **2012**, 50, 3064-3073	10.4	162
239	Compressible, durable and conductive polydimethylsiloxane-coated MXene foams for high-performance electromagnetic interference shielding. *Chemical Engineering Journal*, **2020**, 381, 122622	14.7	157
238	Thermally Conductive Phase Change Composites Featuring Anisotropic Graphene Aerogels for Real-Time and Fast-Charging Solar-Thermal Energy Conversion. *Advanced Functional Materials*, **2018**, 28, 1805365	15.6	154
237	Effect of blending sequence on microstructure of ternary nanocomposites. *Polymer*, **2005**, 46, 5986-5991	3.9	142
236	Highly anisotropic graphene/boron nitride hybrid aerogels with long-range ordered architecture and moderate density for highly thermally conductive composites. *Carbon*, **2018**, 126, 119-127	10.4	140
235	Flexible, Transparent, and Conductive TiCT MXene-Silver Nanowire Films with Smart Acoustic Sensitivity for High-Performance Electromagnetic Interference Shielding. *ACS Nano*, **2020**,	16.7	135
234	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	9.3	134
233	Vertically Aligned High-Quality Graphene Foams for Anisotropically Conductive Polymer Composites with Ultrahigh Through-Plane Thermal Conductivities. *ACS Applied Materials & Interfaces*, **2018**, 10, 17383-17392	9.5	124
232	New Method To Prepare Graphite Nanocomposites. *Chemistry of Materials*, **2008**, 20, 2066-2068	9.6	122
231	Air-dried, high-density graphene hybrid aerogels for phase change composites with exceptional thermal conductivity and shape stability. *Journal of Materials Chemistry A*, **2016**, 4, 18067-18074	13	121
230	Improved mechanical and functional properties of elastomer/graphite nanocomposites prepared by latex compounding. *Acta Materialia*, **2007**, 55, 6372-6382	8.4	119

229	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	8.6	115
228	Conductive mechanism of polymer/graphite conducting composites with low percolation threshold. *Journal of Polymer Science, Part B: Polymer Physics*, **2002**, 40, 954-963	2.6	115
227	Clay exfoliation and organic modification on wear of nylon 6 nanocomposites processed by different routes. *Composites Science and Technology*, **2005**, 65, 2314-2328	8.6	115
226	The reinforcing effect of graphene nanosheets on the cryogenic mechanical properties of epoxy resins. *Composites Science and Technology*, **2012**, 72, 1581-1587	8.6	109
225	Flexible, stretchable and electrically conductive MXene/natural rubber nanocomposite films for efficient electromagnetic interference shielding. *Composites Science and Technology*, **2019**, 182, 107754	8.6	108
224	Chemical and thermal reduction of graphene oxide and its electrically conductive polylactic acid nanocomposites. *Composites Science and Technology*, **2012**, 72, 1430-1435	8.6	107
223	Hierarchical graphene-polyaniline nanocomposite films for high-performance flexible electronic gas sensors. *Nanoscale*, **2016**, 8, 12073-80	7.7	106
222	Roles of graphite oxide, clay and POSS during the combustion of polyamide 6. *Polymer*, **2009**, 50, 1577-1587	3.9	105
221	Influence of interfacial adhesion on toughening of polyethylene-octene elastomer/nylon 6 blends. *Journal of Applied Polymer Science*, **1998**, 69, 1711-1718	2.9	100
220	Polylactic Acid Nanofiber Scaffold Decorated with Chitosan Islandlike Topography for Bone Tissue Engineering. *ACS Applied Materials & Interfaces*, **2017**, 9, 21094-21104	9.5	98
219	Preparation and crystalline morphology of biodegradable starch/clay nanocomposites. *Polymer*, **2007**, 48, 7193-7200	3.9	98
218	High-quality graphene aerogels for thermally conductive phase change composites with excellent shape stability. *Journal of Materials Chemistry A*, **2018**, 6, 5880-5886	13	96
217	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	10	96
216	Self-Assembly of MXene-Surfactants at Liquid-Liquid Interfaces: From Structured Liquids to 3D Aerogels. *Angewandte Chemie - International Edition*, **2019**, 58, 18171-18176	16.4	95
215	Electrically conductive and super-tough polyamide-based nanocomposites. *Polymer*, **2009**, 50, 4112-4121	3.9	93
214	Improved electrical conductivity of polyamide 12/graphene nanocomposites with maleated polyethylene-octene rubber prepared by melt compounding. *ACS Applied Materials & Interfaces*, **2012**, 4, 4740-5	9.5	91
213	Synthesis of graphene decorated with silver nanoparticles by simultaneous reduction of graphene oxide and silver ions with glucose. *Carbon*, **2013**, 59, 93-99	10.4	91
212	Micro- and nano-scale deformation behavior of nylon 66-based binary and ternary nanocomposites. *Composites Science and Technology*, **2006**, 66, 3097-3114	8.6	91

211	Decoration of defect-free graphene nanoplatelets with alumina for thermally conductive and electrically insulating epoxy composites. *Composites Science and Technology*, **2016**, 137, 16-23	8.6	89
210	A Novel Method for Preparation of Disorderly Exfoliated Epoxy/Clay Nanocomposite. *Chemistry of Materials*, **2004**, 16, 757-759	9.6	89
209	Magnetic and electrically conductive epoxy/graphene/carbonyl iron nanocomposites for efficient electromagnetic interference shielding. *Composites Science and Technology*, **2015**, 118, 178-185	8.6	85
208	Porous Graphene Films with Unprecedented Elastomeric Scaffold-Like Folding Behavior for Foldable Energy Storage Devices. *Advanced Materials*, **2018**, 30, e1707025	24	84
207	Superelastic and multifunctional graphene-based aerogels by interfacial reinforcement with graphitized carbon at high temperatures. *Carbon*, **2018**, 132, 95-103	10.4	84
206	In situ chemical reduction and functionalization of graphene oxide for electrically conductive phenol formaldehyde composites. *Carbon*, **2014**, 68, 653-661	10.4	83
205	Controllable synthesis of hollow microspheres with Fe@Carbon dual-shells for broad bandwidth microwave absorption. *Carbon*, **2019**, 147, 172-181	10.4	82
204	A flexible transparent colorimetric wrist strap sensor. *Nanoscale*, **2017**, 9, 869-874	7.7	81
203	Hollow Manganese Silicate Nanotubes with Tunable Secondary Nanostructures as Excellent Fenton-Type Catalysts for Dye Decomposition at Ambient Temperature. *Advanced Functional Materials*, **2016**, 26, 7334-7342	15.6	81
202	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	8.6	80
201	Mechanical and dynamic mechanical properties of nylon 66/montmorillonite nanocomposites fabricated by melt compounding. *Polymer International*, **2004**, 53, 1093-1098	3.3	80
200	Ionic-liquid-assisted facile synthesis of silver nanoparticle-reduced graphene oxide hybrids by gamma irradiation. *Carbon*, **2013**, 55, 245-252	10.4	79
199	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	8.4	78
198	Vertically aligned, ultralight and highly compressive all-graphitized graphene aerogels for highly thermally conductive polymer composites. *Carbon*, **2018**, 140, 624-633	10.4	78
197	Toughening of nylon 6 with a maleated core-shell impact modifier. *Journal of Polymer Science, Part B: Polymer Physics*, **1998**, 36, 1987-1994	2.6	77
196	Thermally conductive and electrically insulating epoxy nanocomposites with silica-coated graphene. *RSC Advances*, **2014**, 4, 15297-15303	3.7	76
195	Kirigami-Inspired Highly Stretchable, Conductive, and Hierarchical TiCT MXene Films for Efficient Electromagnetic Interference Shielding and Pressure Sensing. *ACS Nano*, **2021**, 15, 7668-7681	16.7	72
194	Rapidly Responsive and Flexible Chiral Nematic Cellulose Nanocrystal Composites as Multifunctional Rewritable Photonic Papers with Eco-Friendly Inks. *ACS Applied Materials & Interfaces*, **2018**, 10, 5918-5925	9.5	71

193	Transcrystalline Regions in the Vicinity of Nanofillers in Polyamide-6. *Macromolecules*, **2007**, 40, 123-130	5.5	69
192	Water-assisted melt compounding of nylon-6/pristine montmorillonite nanocomposites. *Journal of Polymer Science, Part B: Polymer Physics*, **2005**, 43, 1100-1112	2.6	68
191	Effects of Alkylation of Silica Filler on Rubber Reinforcement. *Rubber Chemistry and Technology*, **1994**, 67, 834-844	1.7	68
190	Dispersion and distribution of organically modified montmorillonite in nylon-66 matrix. *Journal of Polymer Science, Part B: Polymer Physics*, **2003**, 41, 1234-1243	2.6	66
189	Electrically conductive rubbery epoxy/diamine-functionalized graphene nanocomposites with improved mechanical properties. *Composites Part B: Engineering*, **2014**, 67, 564-570	10	65
188	Electrical and dielectric properties of polypropylene nanocomposites based on carbon nanotubes and barium titanate nanoparticles. *Composites Science and Technology*, **2011**, 71, 1706-1712	8.6	65
187	Facile Synthesis and Assembly of Cu2S Nanodisks to Corncoblike Nanostructures. *Chemistry of Materials*, **2006**, 18, 5156-5158	9.6	65
186	Raman study of interfacial load transfer in graphene nanocomposites. *Applied Physics Letters*, **2011**, 98, 063102	3.4	64
185	Direct Reduction of Graphene Oxide by Ni Foam as a High-Capacitance Supercapacitor Electrode. *ACS Applied Materials & Interfaces*, **2016**, 8, 2297-305	9.5	63
184	Toughening Polypropylene and Its Nanocomposites with Submicrometer Voids. *Macromolecules*, **2010**, 43, 5734-5739	5.5	63
183	Fracture toughness of nylon 6/organoclay/elastomer nanocomposites. *Composites Science and Technology*, **2007**, 67, 2914-2923	8.6	61
182	Toughening of recycled poly(ethylene terephthalate) with a maleic anhydride grafted SEBS triblock copolymer. *Journal of Applied Polymer Science*, **2004**, 93, 1462-1472	2.9	61
181	Flame retardancy of highly filled polyamide 6/clay nanocomposites. *Nanotechnology*, **2007**, 18, 445602	3.4	60
180	Reduced graphene oxide/carbon nanotube hybrid fibers with narrowly distributed mesopores for flexible supercapacitors with high volumetric capacitances and satisfactory durability. *Carbon*, **2019**, 152, 134-143	10.4	59
179	Nanolayered Hybrids Derived from Metal Organic Frameworks for Microwave Absorption. *ACS Applied Nano Materials*, **2019**, 2, 2325-2335	5.6	59
178	Ultrastrong and Highly Conductive MXene-Based Films for High-Performance Electromagnetic Interference Shielding. *Advanced Electronic Materials*, **2020**, 6, 1901094	6.4	59
177	Vertically aligned reduced graphene oxide/Ti3C2Tx MXene hybrid hydrogel for highly efficient solar steam generation. *Nano Research*, **2020**, 13, 3048-3056	10	59
176	A New Strategy to Exfoliate Silicone Rubber/Clay Nanocomposites. *Macromolecular Rapid Communications*, **2005**, 26, 830-833	4.8	58

175	Fabrication of PAN@TiO 2 /Ag nanofibrous membrane with high visible light response and satisfactory recyclability for dye photocatalytic degradation. *Applied Surface Science*, **2017**, 426, 622-629	6.7	56
174	Aminopropyl triethoxysilane functionalized graphene oxide for composites with high dielectric constant and low dielectric loss. *Composites Part A: Applied Science and Manufacturing*, **2015**, 76, 194-202	8.4	56
173	Microstructure and properties of highly filled rubber/clay nanocomposites prepared by melt blending. *Composites Science and Technology*, **2007**, 67, 2903-2913	8.6	56
172	Hollow-structured MXene-PDMS composites as flexible, wearable and highly bendable sensors with wide working range. *Journal of Colloid and Interface Science*, **2019**, 555, 751-758	9.3	55
171	Graphene Colloidal Suspensions as High Performance Semi-Synthetic Metal-Working Fluids. *Journal of Physical Chemistry C*, **2011**, 115, 3410-3415	3.8	55
170	Impact fracture morphology of nylon 6 toughened with a maleated polyethylene octene elastomer. *Journal of Applied Polymer Science*, **2000**, 76, 1285-1295	2.9	55
169	Multiple melting and crystallization of nylon-66/montmorillonite nanocomposites. *Journal of Polymer Science, Part B: Polymer Physics*, **2003**, 41, 2861-2869	2.6	54
168	Lightweight Fe@C hollow microspheres with tunable cavity for broadband microwave absorption. *Composites Part B: Engineering*, **2019**, 177, 107346	10	52
167	Effects of alkylation of silicas on interfacial interaction and molecular motions between silicas and rubbers. *Journal of Applied Polymer Science*, **1996**, 59, 1321-1328	2.9	52
166	Electrically conductive polycarbonate/carbon nanotube composites toughened with micron-scale voids. *Carbon*, **2015**, 82, 195-204	10.4	51
165	Highly sensitive, robust and anisotropic MXene aerogels for efficient broadband microwave absorption. *Composites Part B: Engineering*, **2020**, 200, 108263	10	51
164	Highly Efficient High-Pressure Homogenization Approach for Scalable Production of High-Quality Graphene Sheets and Sandwich-Structured FeO/Graphene Hybrids for High-Performance Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2017**, 9, 11025-11034	9.5	50
163	Layered Birnessite Cathode with a Displacement/Intercalation Mechanism for High-Performance Aqueous Zinc-Ion Batteries. *Nano-Micro Letters*, **2020**, 12, 56	19.5	50
162	Preforming abundant surface cobalt hydroxyl groups on low crystalline flowerlike Co3(Si2O5)2(OH)2 for enhancing catalytic degradation performances with a critical nonradical reaction. *Applied Catalysis B: Environmental*, **2020**, 261, 118238	21.8	50
161	Carbon nanotube@layered nickel silicate coaxial nanocables as excellent anode materials for lithium and sodium storage. *Journal of Materials Chemistry A*, **2015**, 3, 16551-16559	13	49
160	Synergistic effect of decabromodiphenyl ethane and montmorillonite on flame retardancy of polypropylene. *Polymer Degradation and Stability*, **2009**, 94, 1520-1525	4.7	49
159	Toughening and reinforcing polypropylene with core shell structured fillers. *Journal of Applied Polymer Science*, **1999**, 74, 2397-2403	2.9	49
158	Critical particle size for interfacial debonding in polymer/nanoparticle composites. *Composites Science and Technology*, **2010**, 70, 861-872	8.6	47

157	Electrically conductive and super-tough polypropylene/carbon nanotube nanocomposites prepared by melt compounding. *Composites Part B: Engineering*, **2014**, 56, 384-391	10	46
156	Enhanced Interfacial Adhesion between PPO and Glass Beads in Composites by Surface Modification of Glass Beads via In Situ Polymerization and Copolymerization. *Chemistry of Materials* , **2004**, 16, 133-138	9.6	46
155	Electrospun polyacrylonitrile nanofibers loaded with silver nanoparticles by silver mirror reaction. *Materials Science and Engineering C*, **2015**, 51, 346-55	8.3	45
154	Growth of nickel silicate nanoplates on reduced graphene oxide as layered nanocomposites for highly reversible lithium storage. *Nanoscale*, **2015**, 7, 16805-11	7.7	44
153	Cr(VI) removal from aqueous solution using chemically reduced and functionalized graphene oxide. *Journal of Materials Science*, **2013**, 48, 1883-1889	4.3	43
152	Dispersion of graphene oxide and its flame retardancy effect on epoxy nanocomposites. *Chinese Journal of Polymer Science (English Edition)*, **2011**, 29, 368-376	3.5	43
151	Flame Synthesis of Superhydrophilic Carbon Nanotubes/Ni Foam Decorated with FeO Nanoparticles for Water Purification via Solar Steam Generation. *ACS Applied Materials & Interfaces*, **2020**, 12, 13229-13238	9.5	42
150	Antifreezing and stretchable all-gel-state supercapacitor with enhanced capacitances established by graphene/PEDOT-polyvinyl alcohol hydrogel fibers with dual networks. *Carbon*, **2021**, 171, 201-210	10.4	42
149	Nanoscratching of nylon 66-based ternary nanocomposites. *Acta Materialia*, **2007**, 55, 635-646	8.4	41
148	3D Lamellar-Structured Graphene Aerogels for Thermal Interface Composites with High Through-Plane Thermal Conductivity and Fracture Toughness. *Nano-Micro Letters*, **2020**, 13, 22	19.5	41
147	Electrically conductive aluminum ion-reinforced MXene films for efficient electromagnetic interference shielding. *Journal of Materials Chemistry C*, **2020**, 8, 1673-1678	7.1	40
146	Structural evolution of functionalized graphene sheets during solvothermal reduction. *Carbon*, **2013**, 56, 132-138	10.4	39
145	Graphene-coated ZnO tetrapod whiskers for thermally and electrically conductive epoxy composites. *Composites Part A: Applied Science and Manufacturing*, **2017**, 94, 104-112	8.4	38
144	Fabrication of carboxymethyl cellulose and graphene oxide bio-nanocomposites for flexible nonvolatile resistive switching memory devices. *Carbohydrate Polymers*, **2019**, 214, 213-220	10.3	38
143	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
142	On compatibilization and toughening of a copolyester with a maleated thermoplastic elastomer. *Polymer*, **2002**, 43, 6993-7001	3.9	37
141	Impact fracture behaviour of nylon 6-based ternary nanocomposites. *Composites Part B: Engineering* , **2010**, 41, 67-75	10	36
140	Effects of interfacial adhesion on microdamage and rheological behaviour of glass bead filled nylon 6. *Polymer International*, **1995**, 37, 113-117	3.3	36

139	Superelastic, Ultralight, and Conductive TiCT MXene/Acidified Carbon Nanotube Anisotropic Aerogels for Electromagnetic Interference Shielding. *ACS Applied Materials & Interfaces*, **2021**, 13, 20539-20547	9.5	36
138	Effects of SEBS-g-MA on tribological behaviour of nylon 66/organoclay nanocomposites. *Tribology International*, **2007**, 40, 855-862	4.9	35
137	Simultaneous enhancements in electrical conductivity and toughness of selectively foamed polycarbonate/polystyrene/carbon nanotube microcellular foams. *Composites Part B: Engineering*, **2018**, 143, 161-167	10	34
136	Photothermal hierarchical carbon nanotube/reduced graphene oxide microspherical aerogels with radially orientated microchannels for efficient cleanup of crude oil spills. *Journal of Colloid and Interface Science*, **2020**, 570, 61-71	9.3	32
135	□FeO Nanodisk/Bacterial Cellulose Hybrid Membranes as High-Performance Sulfate-Radical-Based Visible Light Photocatalysts under Stirring/Flowing States. *ACS Applied Materials & Interfaces*, **2018**, 10, 30670-30679	9.5	32
134	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	3.9	32
133	Sol□gel template synthesis and characterization of magnetoelectric CoFe2O4/Pb(Zr0.52Ti0.48)O3 nanotubes. *Materials Chemistry and Physics*, **2008**, 107, 541-546	4.4	32
132	Coating of Wood with FeO-Decorated Carbon Nanotubes by One-Step Combustion for Efficient Solar Steam Generation. *ACS Applied Materials & Interfaces*, **2021**, 13, 22845-22854	9.5	31
131	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
130	FeCl3 intercalated few-layer graphene for high lithium-ion storage performance. *Journal of Materials Chemistry A*, **2015**, 3, 15498-15504	13	30
129	High Lithium Storage Capacity and Long Cycling Life FeS Anodes with Reversible Solid Electrolyte Interface Films and Sandwiched Reduced Graphene Oxide Shells. *ACS Applied Materials & Interfaces*, **2017**, 9, 41878-41886	9.5	30
128	The role of interfacial modifier in toughening of nylon 6 with a core-shell toughener. *Journal of Polymer Science, Part B: Polymer Physics*, **1999**, 37, 2664-2672	2.6	30
127	Direct Ink Writing of Highly Conductive MXene Frames for Tunable Electromagnetic Interference Shielding and Electromagnetic Wave-Induced Thermochromism. *Nano-Micro Letters*, **2021**, 13, 148	19.5	30
126	Neuron-Inspired FeO/Conductive Carbon Filament Network for High-Speed and Stable Lithium Storage. *ACS Applied Materials & Interfaces*, **2018**, 10, 17923-17932	9.5	29
125	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	3.9	29
124	Thermally conductive phenol formaldehyde composites filled with carbon fillers. *Materials Letters*, **2014**, 118, 212-216	3.3	28
123	Dual-Carbon-Confined Fe S Anodes with Enhanced Electrochemical Catalytic Conversion Process for Ultralong Lithium Storage. *Chemistry - A European Journal*, **2018**, 24, 17339-17344	4.8	28
122	Effect of compounding sequence on localization of carbon nanotubes and electrical properties of ternary nanocomposites. *Composites Part A: Applied Science and Manufacturing*, **2013**, 49, 35-41	8.4	27

121	Multiform structures of SnO2 nanobelts. *Nanotechnology*, **2007**, 18, 055607	3.4	27
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