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List of Publications by Citations

124 papers	6,981 citations	49 h-index	80 g-index
126 ext. papers	7,841 ext. citations	6.6 avg, IF	5.96 L-index

#	Paper	IF	Citations
124	Epoxy/graphene platelets nanocomposites with two levels of interface strength. *Polymer*, **2011**, 52, 1603-1611	3.9	414
123	Highly Sensitive, Wearable, Durable Strain Sensors and Stretchable Conductors Using Graphene/Silicon Rubber Composites. *Advanced Functional Materials*, **2016**, 26, 7614-7625	15.6	272
122	A Facile Approach to Chemically Modified Graphene and its Polymer Nanocomposites. *Advanced Functional Materials*, **2012**, 22, 2735-2743	15.6	211
121	Effect of inorganic nanoparticles on mechanical property, fracture toughness and toughening mechanism of two epoxy systems. *Polymer*, **2008**, 49, 3510-3523	3.9	200
120	Electrically and thermally conductive elastomer/graphene nanocomposites by solution mixing. *Polymer*, **2014**, 55, 201-210	3.9	187
119	A new approach to polymer/montmorillonite nanocomposites. *Polymer*, **2003**, 44, 4619-4624	3.9	177
118	A high-performance Bi2WO6-graphene photocatalyst for visible light-induced H2 and O2 generation. *Nanoscale*, **2014**, 6, 2186-93	7.7	168
117	From carbon nanotubes and silicate layers to graphene platelets for polymer nanocomposites. *Nanoscale*, **2012**, 4, 4578-86	7.7	159
116	N-doped porous carbon with magnetic particles formed in situ for enhanced Cr(VI) removal. *Water Research*, **2013**, 47, 4188-97	12.5	155
115	Covalently bonded interfaces for polymer/graphene composites. *Journal of Materials Chemistry A*, **2013**, 1, 4255	13	150
114	Improving the through-thickness thermal and electrical conductivity of carbon fibre/epoxy laminates by exploiting synergy between graphene and silver nano-inclusions. *Composites Part A: Applied Science and Manufacturing*, **2015**, 69, 72-82	8.4	144
113	Graphene Platelets and Their Polymer Composites: Fabrication, Structure, Properties, and Applications. *Advanced Functional Materials*, **2018**, 28, 1706705	15.6	127
112	Sonochemical fabrication of Fe3O4 nanoparticles on reduced graphene oxide for biosensors. *Ultrasonics Sonochemistry*, **2013**, 20, 872-80	8.9	125
111	New Method To Prepare Graphite Nanocomposites. *Chemistry of Materials*, **2008**, 20, 2066-2068	9.6	122
110	Development of polymer composites using modified, high-structural integrity graphene platelets. *Composites Science and Technology*, **2014**, 91, 82-90	8.6	113
109	A novel approach to electrically and thermally conductive elastomers using graphene. *Polymer*, **2013**, 54, 3663-3670	3.9	112
108	Simple fabrication of a Fe2O3/carbon composite for use in a high-performance lithium ion battery. *Carbon*, **2013**, 52, 565-573	10.4	112

107	Melt compounding with graphene to develop functional, high-performance elastomers. *Nanotechnology*, **2013**, 24, 165601	3.4	106
106	Synthesis and Characterization of Novel Soybean-Oil-Based Elastomers with Favorable Processability and Tunable Properties. *Macromolecules*, **2012**, 45, 9010-9019	5.5	104
105	A Novel Approach to High Performance Elastomer by Using Clay. *Macromolecular Rapid Communications*, **2004**, 25, 1692-1696	4.8	103
104	Tailoring the Morphology of g-C3N4 by Self-Assembly towards High Photocatalytic Performance. *ChemCatChem*, **2014**, 6, 3419-3425	5.2	100
103	Processable 3-nm thick graphene platelets of high electrical conductivity and their epoxy composites. *Nanotechnology*, **2014**, 25, 125707	3.4	96
102	Elastomeric composites based on carbon nanomaterials. *Nanotechnology*, **2015**, 26, 112001	3.4	95
101	Structure□roperty relations of 55nm particle-toughened epoxy. *Polymer*, **2010**, 51, 4867-4879	3.9	93
100	Bioinspired fabrication of hierarchically structured, pH-tunable photonic crystals with unique transition. *ACS Nano*, **2013**, 7, 4911-8	16.7	91
99	A Novel Method for Preparation of Disorderly Exfoliated Epoxy/Clay Nanocomposite. *Chemistry of Materials*, **2004**, 16, 757-759	9.6	89
98	A Path Beyond Metal and Silicon:Polymer/Nanomaterial Composites for Stretchable Strain Sensors. *Advanced Functional Materials*, **2019**, 29, 1806306	15.6	88
97	Nanosheets Co3O4 Interleaved with Graphene for Highly Efficient Oxygen Reduction. *ACS Applied Materials & Interfaces*, **2015**, 7, 21373-80	9.5	87
96	Implication of multi-walled carbon nanotubes on polymer/graphene composites. *Materials & Design* , **2015**, 65, 690-699		87
95	PEDOT-based composites as electrode materials for supercapacitors. *Nanotechnology*, **2016**, 27, 042001	3.4	87
94	Electrically conductive, mechanically robust, pH-sensitive graphene/polymer composite hydrogels. *Composites Science and Technology*, **2016**, 127, 119-126	8.6	80
93	Employing a novel bioelastomer to toughen polylactide. *Polymer*, **2013**, 54, 2450-2458	3.9	76
92	Epoxy nanocomposites containing magnetite-carbon nanofibers aligned using a weak magnetic field. *Polymer*, **2015**, 68, 25-34	3.9	75
91	Study of epoxy toughened by in situ formed rubber nanoparticles. *Journal of Applied Polymer Science*, **2008**, 110, 304-312	2.9	75
90	Design and Preparation of a Novel Cross-Linkable, High Molecular Weight, and Bio-Based Elastomer by Emulsion Polymerization. *Macromolecules*, **2012**, 45, 6830-6839	5.5	70

89	Interface-tuned epoxy/clay nanocomposites. *Polymer*, **2011**, 52, 497-504	3.9	70
88	Facile Synthesis and Assembly of Cu2S Nanodisks to Corncoblike Nanostructures. *Chemistry of Materials*, **2006**, 18, 5156-5158	9.6	65
87	Controlled fabrication of Si nanoparticles on graphene sheets for Li-ion batteries. *RSC Advances*, **2013**, 3, 6141	3.7	62
86	Aerogels based on carbon nanomaterials. *Journal of Materials Science*, **2016**, 51, 9157-9189	4.3	61
85	Free-standing, flexible, electrically conductive epoxy/graphene composite films. *Composites Part A: Applied Science and Manufacturing*, **2017**, 92, 42-50	8.4	61
84	Free-standing composite hydrogel films for superior volumetric capacitance. *Journal of Materials Chemistry A*, **2015**, 3, 15668-15674	13	60
83	Modification of starch for high performance elastomer. *Polymer*, **2006**, 47, 3896-3903	3.9	59
82	Flexible, mechanically resilient carbon nanotube composite films for high-efficiency electromagnetic interference shielding. *Carbon*, **2018**, 136, 387-394	10.4	58
81	A New Strategy to Exfoliate Silicone Rubber/Clay Nanocomposites. *Macromolecular Rapid Communications*, **2005**, 26, 830-833	4.8	58
80	Cellulose Nanocrystals/Polyacrylamide Composites of High Sensitivity and Cycling Performance To Gauge Humidity. *ACS Applied Materials & Interfaces*, **2017**, 9, 18231-18237	9.5	57
79	Multiple melting and crystallization of nylon-66/montmorillonite nanocomposites. *Journal of Polymer Science, Part B: Polymer Physics*, **2003**, 41, 2861-2869	2.6	54
78	Effect of acid and TETA modification on mechanical properties of MWCNTs/epoxy composites. *Journal of Materials Science*, **2008**, 43, 2653-2658	4.3	53
77	One-pot synthesis of carbon nanotube□graphene hybrids via syngas production. *Journal of Materials Chemistry A*, **2014**, 2, 1418-1428	13	52
76	Fabrication, Structure and Properties of Epoxy/Metal Nanocomposites. *Macromolecular Materials and Engineering*, **2011**, 296, 465-474	3.9	49
75	Development of a novel toughener for epoxy resins. *Polymer International*, **2009**, 58, 838-845	3.3	49
74	Development of SENB toughness measurement for thermoset resins. *Polymer Testing*, **2007**, 26, 445-450	4.5	48
73	Development of flexible supercapacitors using an inexpensive graphene/PEDOT/MnO 2 sponge composite. *Materials and Design*, **2017**, 125, 1-10	8.1	47
72	A reactive polymer for toughening epoxy resin. *Journal of Applied Polymer Science*, **2010**, 115, 3265-3272	2.9	45

71	Tribological properties of epoxy/rubber nanocomposites. *Tribology International*, **2008**, 41, 1205-1211	4.9	45
70	Pyrolysis of polymethylsilsesquioxane. *Journal of Applied Polymer Science*, **2002**, 85, 1077-1086	2.9	45
69	Thermal Degradation and Fire Properties of Fungal Mycelium and Mycelium - Biomass Composite Materials. *Scientific Reports*, **2018**, 8, 17583	4.9	45
68	Relations between carbon nanotubesVength and their compositesVmechanical and functional performance. *Polymer*, **2013**, 54, 2158-2165	3.9	44
67	Compact, flexible conducting polymer/graphene nanocomposites for supercapacitors of high volumetric energy density. *Composites Science and Technology*, **2018**, 160, 50-59	8.6	43
66	Fe2O3/TiO2 photocatalyst of hierarchical structure for H2 production from water under visible light irradiation. *Microporous and Mesoporous Materials*, **2014**, 190, 10-16	5.3	43
65	Reinforcement of Elastomer by Starch. *Macromolecular Materials and Engineering*, **2006**, 291, 629-637	3.9	43
64	Hydrogen Bonding-Reinforced Hydrogel Electrolyte for Flexible, Robust, and All-in-One Supercapacitor with Excellent Low-Temperature Tolerance. *ACS Applied Materials & Interfaces*, **2020**, 12, 37977-37985	9.5	41
63	Recent advances in carbon-based nanomaterials for flame retardant polymers and composites. *Composites Part B: Engineering*, **2021**, 212, 108675	10	38
62	Bioinspired Carbon/SnO2 Composite Anodes Prepared from a Photonic Hierarchical Structure for Lithium Batteries. *ACS Applied Materials & Interfaces*, **2015**, 7, 11146-54	9.5	37
61	Nanosilica-toughened polymer adhesives. *Materials & Design*, **2014**, 61, 75-86		36
60	Fabrication and Characterization of an Organic-Inorganic Gradient Surface made by Polymethylsilsesquioxane (PMSQ). *Macromolecular Rapid Communications*, **2006**, 27, 1603-1607	4.8	36
59	Conducting □Fe2O3 nanorod/polyaniline/CNT gel framework for high performance anodes towards supercapacitors. *Composites Science and Technology*, **2018**, 156, 231-237	8.6	35
58	High-performance supercapacitors using graphene/polyaniline composites deposited on kitchen sponge. *Nanotechnology*, **2015**, 26, 075702	3.4	35
57	Cost-Effective Three-Dimensional Graphene/Ag Aerogel Composite for High-Performance Sensing. *Electrochimica Acta*, **2016**, 205, 70-76	6.7	34
56	Porphyrin-based graphene oxide frameworks with ultra-large d-spacings for the electrocatalyzation of oxygen reduction reaction. *Physical Chemistry Chemical Physics*, **2015**, 17, 19538-45	3.6	32
55	Facile Fabrication of Graphene Membranes with Readily Tunable Structures. *ACS Applied Materials & Interfaces*, **2015**, 7, 13745-57	9.5	32
54	Graphene oxide and hyperbranched polymer-toughened hydrogels with improved absorption properties and durability. *Journal of Materials Science*, **2015**, 50, 3457-3466	4.3	31

53	High-Performance Microsupercapacitors Based on Bioinspired Graphene Microfibers. *ACS Applied Materials & Interfaces*, **2018**, 10, 10157-10164	9.5	30
52	A new method for preparation of functionalized graphene and its epoxy nanocomposites. *Composites Part B: Engineering*, **2020**, 196, 108096	10	30
51	Superior removal of Hg (II) ions from wastewater using hierarchically porous, functionalized carbon. *Journal of Hazardous Materials*, **2019**, 371, 33-41	12.8	30
50	Effects of heat and pressure on intercalation structures of isobutylene-isoprene rubber/clay nanocomposites. I. Prepared by melt blending. *Journal of Polymer Science, Part B: Polymer Physics*, **2005**, 43, 2653-2664	2.6	29
49	Effect of interface modification on PMMA/graphene nanocomposites. *Journal of Materials Science*, **2014**, 49, 5838-5849	4.3	27
48	Electrically and thermally conductive elastomer by using MXene nanosheets with interface modification. *Chemical Engineering Journal*, **2020**, 397, 125439	14.7	27
47	Improvement of adhesive toughness measurement. *Polymer Testing*, **2011**, 30, 243-250	4.5	26
46	Toughening polymer adhesives using nanosized elastomeric particles. *Journal of Materials Research* , **2014**, 29, 665-674	2.5	25
45	A bioinspired poly(N-isopropylacrylamide)/silver nanocomposite as a photonic crystal with both optical and thermal responses. *Nanoscale*, **2017**, 9, 12969-12975	7.7	24
44	Graphene for flame-retarding elastomeric composite foams having strong interface. *Composites Part A: Applied Science and Manufacturing*, **2017**, 101, 254-264	8.4	24
43	A chiral smectic structure assembled from nanosheets and nanorods. *Chemical Communications*, **2017**, 53, 1868-1871	5.8	23
42	Influences of doping Cr/Fe/Ta on the performance of Ni/CeO2 catalyst under microwave irradiation in dry reforming of CH4. *Journal of Solid State Chemistry*, **2016**, 233, 166-177	3.3	22
41	Novel polyacrylamide hydrogels by highly conductive, water-processable graphene. *Composites Part A: Applied Science and Manufacturing*, **2017**, 93, 1-9	8.4	22
40	High-mass loading electrodes with exceptional areal capacitance and cycling performance through a hierarchical network of MnO2 nanoflakes and conducting polymer gel. *Journal of Power Sources*, **2019**, 412, 655-663	8.9	21
39	Graphene platelets versus phosphorus compounds for elastomeric composites: flame retardancy, mechanical performance and mechanisms. *Nanotechnology*, **2019**, 30, 385703	3.4	20
38	Recent progress in the development of thermal interface materials: a review. *Physical Chemistry Chemical Physics*, **2021**, 23, 753-776	3.6	19
37	Elastomer nanocomposites containing MXene for mechanical robustness and electrical and thermal conductivity. *Nanotechnology*, **2020**, 31, 315715	3.4	18
36	Development of flame-retarding elastomeric composites with high mechanical performance. *Composites Part A: Applied Science and Manufacturing*, **2018**, 109, 257-266	8.4	18

35	Compressible, electrically conductive, fibre-like, three-dimensional PEDOT-based composite aerogels towards energy storage applications. *Composites Science and Technology*, **2016**, 127, 36-46	8.6	18
34	High photocatalytic performance by engineering Bi2WO6 nanoneedles onto graphene sheets. *RSC Advances*, **2014**, 4, 27963-27970	3.7	18
33	A new approach to nanoporous graphene sheets via rapid microwave-induced plasma for energy applications. *Nanotechnology*, **2014**, 25, 495604	3.4	18
32	In situ modification of BiVO nanosheets on graphene for boosting photocatalytic water oxidation. *Nanoscale*, **2020**, 12, 14853-14862	7.7	15
31	Superior H2 production by hydrophilic ultrafine Ta2O5 engineered covalently on graphene. *Nanotechnology*, **2014**, 25, 215401	3.4	15
30	Synthesis and structure of polymethylsilsesquioxane–clay nanocomposite via in situ intercalative polymerization. *Journal of Applied Polymer Science*, **2002**, 86, 3708-3711	2.9	15
29	Assembly of MnO/CNC/rGO fibers from colloidal liquid crystal for flexible supercapacitors via a continuous one-process method. *Nanotechnology*, **2019**, 30, 465702	3.4	14
28	Hierarchical architecture for flexible energy storage. *Nanoscale*, **2017**, 9, 6686-6694	7.7	13
27	Bioinspired Thermoresponsive Photonic Polymers with Hierarchical Structures and Their Unique Properties. *Macromolecular Rapid Communications*, **2015**, 36, 1722-8	4.8	13
26	Stretchable and calibratable graphene sensors for accurate strain measurement. *Materials Advances*, **2020**, 1, 235-243	3.3	13
25	Near-Infrared Trigged Stimulus-Responsive Photonic Crystals with Hierarchical Structures. *ACS Applied Materials & Interfaces*, **2017**, 9, 34279-34285	9.5	13
24	Noncovalent Modification of Boron Nitrite Nanosheets for Thermally Conductive, Mechanically Resilient Epoxy Nanocomposites. *Industrial & Engineering Chemistry Research*, **2020**, 59, 20701-20710	3.9	12
23	Mechanically robust, highly sensitive and superior cycling performance nanocomposite strain sensors using 3-nm thick graphene platelets. *Polymer Testing*, **2021**, 98, 107178	4.5	12
22	Multifunctional, durable and highly conductive graphene/sponge nanocomposites. *Nanotechnology*, **2020**, 31, 465502	3.4	11
21	Cementitious composites containing alum sludge ash: An investigation of microstructural features by an advanced nanoindentation technology. *Construction and Building Materials*, **2021**, 299, 124286	6.7	10
20	Cement nanocomposites containing montmorillonite nanosheets modified with surfactants of various chain lengths. *Cement and Concrete Composites*, **2021**, 116, 103894	8.6	9
19	A Facile Fabrication of Fe3O4/Graphene Nanosheets for Lithium-Ion Battery. *Science of Advanced Materials*, **2014**, 6, 283-289	2.3	8
18	Maximized crystal water content and charge-shielding effect in layered vanadate render superior aqueous zinc-ion battery. *Materials Today Energy*, **2021**, 100757	7	8

17	Epoxy/graphene nanocomposites prepared by in-situ microwaving. *Carbon*, **2021**, 177, 271-281	10.4	7
16	Stretchable, mechanically resilient, and high electromagnetic shielding polymer/MXene nanocomposites. *Journal of Applied Polymer Science*, **2021**, 138, 50509	2.9	7
15	High electrochemical cycling performance through accurately inheriting hierarchical porous structure from bagasse. *Journal of Energy Storage*, **2019**, 22, 60-67	7.8	6
14	Combining hydrophilic MXene nanosheets and hydrophobic carbon nanotubes for mechanically resilient and electrically conductive elastomer nanocomposites. *Composites Science and Technology*, **2021**, 214, 108997	8.6	6
13	A facile approach to the scalable preparation of thermoplastic/carbon nanotube composites. *Nanotechnology*, **2020**, 31, 195706	3.4	5
12	Comparative Study of Nanocarbon-Based Flexible Multifunctional Composite Electrodes. *ACS Omega*, **2021**, 6, 2526-2541	3.9	5
11	Effect of graphene nanoplatelets on water absorption and impact resistance of fibre-metal laminates under varying environmental conditions. *Composite Structures*, **2021**, 281, 114977	5.3	4
10	Low-temperature, rapid preparation of functionalized graphene platelets. *Composites Communications*, **2020**, 22, 100500	6.7	4
9	3D printing interface-modified PDMS/MXene nanocomposites for stretchable conductors. *Journal of Materials Science and Technology*, **2022**, 117, 174-182	9.1	3
8	A comparative study of polymer nanocomposites containing multi-walled carbon nanotubes and graphene nanoplatelets. *Nano Materials Science*, **2021**,	10.2	2
7	Durable cement/cellulose nanofiber composites prepared by a facile approach. *Cement and Concrete Composites*, **2021**, 125, 104321	8.6	2
6	Highly sensitive and flexible capacitive elastomeric sensors for compressive strain measurements. *Materials Today Communications*, **2021**, 26, 102023	2.5	2
5	Flexible, mechanically robust, multifunctional and sustainable cellulose/graphene nanocomposite films for wearable human-motion monitoring. *Composites Science and Technology*, **2022**, 109451	8.6	2
4	Effect of surface modification of lead zirconate titanate particles on the properties of piezoelectric composite sensors **2013**,		1
3	A facile approach to fabricate elastomer/graphene platelets nanocomposites **2013**,		1
2	Ultra-stable zinc-ion batteries by suppressing vanadium dissolution via multiple ion-bonded vanadate cathodes. *Applied Physics Reviews*, **2022**, 9, 011416	17.3	0
1	Preparation of antimonene nanosheets and their thermoelectric nanocomposites. *Composites Communications*, **2021**, 28, 100968	6.7	0