Yan Wang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

93 papers	5,221 citations	28 h-index	72 g-index
95 ext. papers	5,985 ext. citations	5.7 avg, IF	5.98 L-index

#	Paper	IF	Citations
93	Molecular composite electrolytes of polybenzimidazole/polyethylene oxide with enhanced safety and comprehensive performance for all-solid-state lithium ion batteries. *Polymer*, **2022**, 239, 124450	3.9	0
92	Super Strong and Tough Polybenzimidazole/Metal Ions Coordination Networks: Reinforcing Mechanism, Recyclability, and Anti-Counterfeiting Applications. *Macromolecular Rapid Communications*, **2021**, e2100643	4.8	0
91	Strong and multi-responsive composite coiled yarn based on electrospun polyamide-6 nanofiber and carbon nanotube. *Materials Today Communications*, **2021**, 30, 103052	2.5	
90	Compression strain-dependent tubular carbon nanofibers/graphene aerogel absorber with ultrabroad absorption band. *Chemical Engineering Journal*, **2021**, 433, 133619	14.7	1
89	Crosslinking polydopamine/cellulose nanofibril composite aerogels by metal coordination bonds for significantly improved thermal stability, flame resistance, and thermal insulation properties. *Cellulose*, **2021**, 28, 10987-10997	5.5	1
88	High-Efficiency Microwave Attenuation of Magnetic Carbon Nanoparticle-Decorated Tubular Carbon Nanofibers Composites at an Ultralow Filling Content. *Advanced Electronic Materials*, **2021**, 7, 2100121	6.4	2
87	UHMWPE/nanoparticle composite membrane for personal radiation shielding. *Composites Science and Technology*, **2021**, 201, 108500	8.6	5
86	Encapsulated core–sheath carbon nanotube–graphene/polyurethane composite fiber for highly stable, stretchable, and sensitive strain sensor. *Journal of Materials Science*, **2021**, 56, 2296-2310	4.3	10
85	Facile strategy to prepare polyimide nanofiber assembled aerogel for effective airborne particles filtration. *Journal of Hazardous Materials*, **2021**, 415, 125739	12.8	6
84	Low-dielectric styrene resins with high mechanical strength and good (re)processability via constructing imine-crosslinked network and introducing small amount of amino molecules. *European Polymer Journal*, **2021**, 110780	5.2	
83	Poly (vinyl alcohol) based gradient cross-linked and reprogrammable humidity-responsive actuators. *Sensors and Actuators B: Chemical*, **2021**, 349, 130735	8.5	3
82	Reduced shrinkage and mechanically strong dual-network polyimide aerogel films for effective filtration of particle matter. *Separation and Purification Technology*, **2021**, 276, 119393	8.3	2
81	Increased Hydrogen-bonding of Poly(m-phenylene isophthalamide) (PMIA) with Sulfonate Moiety for High-performance Easily Dyeable Fiber. *Chinese Journal of Polymer Science (English Edition)*, **2020**, 38, 1230-1238	3.5	5
80	A spirally layered carbon nanotube-graphene/polyurethane composite yarn for highly sensitive and stretchable strain sensor. *Composites Part A: Applied Science and Manufacturing*, **2020**, 135, 105932	8.4	27
79	Polydopamine nanotube for dual bio-inspired strong, tough, and flame retarding composites. *Composites Part B: Engineering*, **2020**, 197, 108184	10	7
78	Design and synthesis of an amide-containing crosslinked network based on Diels-Alder chemistry for fully recyclable aramid fabric reinforced composites. *Composites Science and Technology*, **2020**, 197, 108280	8.6	10
77	Intercalated Montmorillonite Reinforced Polyimide Separator Prepared by Solution Blow Spinning for Lithium-Ion Batteries. *Industrial & Engineering Chemistry Research*, **2020**, 59, 12879-12888	3.9	11

76	Hydrophobic, Pore-Tunable Polyimide/Polyvinylidene Fluoride Composite Aerogels for Effective Airborne Particle Filtration. *Macromolecular Materials and Engineering*, **2020**, 305, 2000129	3.9	5
75	Direct fabrication of poly(p-phenylene terephthalamide) aerogel and its composites with great thermal insulation and infrared stealth. *Chemical Engineering Journal*, **2020**, 388, 124310	14.7	20
74	Air and Water Vapor Permeable UHMWPE Composite Membranes for X-Ray Shielding. *Industrial & Engineering Chemistry Research*, **2020**, 59, 9136-9142	3.9	5
73	Porous core-shell zeolitic imidazolate framework-derived Co/NPC@ZnO-decorated reduced graphene oxide for lightweight and broadband electromagnetic wave absorber. *Journal of Alloys and Compounds*, **2020**, 818, 152932	5.7	15
72	Tailoring the Properties of Diels-Alder Reaction Crosslinked High-performance Thermosets by Different Bismaleimides. *Chinese Journal of Polymer Science (English Edition)*, **2020**, 38, 268-277	3.5	11
71	Electrospun polyamide-6 nanofiber for hierarchically structured and multi-responsive actuator. *Sensors and Actuators A: Physical*, **2020**, 302, 111793	3.9	13
70	Hyper-Cross-Linked Polymers-Derived Porous Tubular Carbon Nanofibers@TiO toward a Wide-Band and Lightweight Microwave Absorbent at a Low Loading Content. *ACS Applied Materials & Interfaces*, **2020**, 12, 46455-46465	9.5	21
69	Moisture-resistance, mechanical and thermal properties of polyimide aerogels. *Journal of Porous Materials*, **2020**, 27, 237-247	2.4	15
68	Kinetic study of copolymerized PMIA with ether moiety under air pyrolysis. *Journal of Thermal Analysis and Calorimetry*, **2020**, 140, 283-293	4.1	3
67	Innovative Pre-Treatment for Fabrication of Conductive PMIA Fibers via Electroless Nickel Plating. *Advanced Engineering Materials*, **2019**, 21, 1801041	3.5	4
66	Vitrimer Chemistry Assisted Fabrication of Aligned, Healable, and Recyclable Graphene/Epoxy Composites. *Frontiers in Chemistry*, **2019**, 7, 632	5	15
65	Constructing Flexible and CuS-Coated meta-Aramid/Polyacrylonitrile Composite Films with Excellent Coating Adhesion. *Industrial & Engineering Chemistry Research*, **2019**, 58, 17965-17971	3.9	2
64	Metal organic frameworks-derived Fe-Co nanoporous carbon/graphene composite as a high-performance electromagnetic wave absorber. *Journal of Alloys and Compounds*, **2019**, 785, 765-773	5.7	128
63	Low-k and Recyclable High-Performance POSS/Polyamide Composites Based on Diels-Alder Reaction. *ACS Applied Polymer Materials*, **2019**, 1, 944-952	4.3	18
62	Poly(p-phenylene terephthalamide) modified PE separators for lithium ion batteries. *Journal of Membrane Science*, **2019**, 581, 355-361	9.6	30
61	Reversibly cross-linked fullerene/polyamide composites based on Diels-Alder reaction. *Composites Science and Technology*, **2019**, 176, 9-16	8.6	9
60	Tailoring the architecture of aromatic polymers for highly efficient dispersion of carbon nanomaterials and their high-performance composites. *Carbon*, **2019**, 148, 297-306	10.4	4
59	Mussel-inspired polydopamine/polystyrene composites with 3D continuous structure and improved thermal, mechanical, and flame retarding properties. *Journal of Applied Polymer Science*, **2019**, 136, 47740	2.9	7

58	Improved thermal conductivity and dielectric properties of flexible PMIA composites with modified micro- and nano-sized hexagonal boron nitride. *Frontiers of Materials Science*, **2019**, 13, 64-76	2.5	17
57	Interfacial polymerized reduced graphene oxide covalently grafted polyaniline nanocomposites for high-performance electromagnetic wave absorber. *Journal of Materials Science*, **2019**, 54, 6410-6424	4.3	30
56	Mechanically strong and highly efficient healable organic/inorganic hybrid dynamic network. *Polymer*, **2019**, 167, 202-208	3.9	17
55	General Bioinspired, Innovative Method for Fabrication of Surface-Nickeled Meta-aramid Fibers. *Industrial & Engineering Chemistry Research*, **2019**, 58, 9458-9464	3.9	8
54	Core-Shell CoNi@Graphitic Carbon Decorated on B,N-Codoped Hollow Carbon Polyhedrons toward Lightweight and High-Efficiency Microwave Attenuation. *ACS Applied Materials & Interfaces*, **2019**, 11, 25624-25635	9.5	242
53	Novel Poly(m-phenyleneisophthalamide) Dielectric Composites with Enhanced Thermal Conductivity and Breakdown Strength Utilizing Functionalized Boron Nitride Nanosheets. *Macromolecular Materials and Engineering*, **2019**, 304, 1900310	3.9	12
52	Preparation of PMIA dielectric nanocomposite with enhanced thermal conductivity by filling with functionalized graphene□carbon nanotube hybrid fillers. *Applied Nanoscience (Switzerland)*, **2019**, 9, 1743-1757	3.3	9
51	Synthesis and Characterization of Easily Colored Meta-aramid Copolymer Containing Ether Bonds. *Chinese Journal of Polymer Science (English Edition)*, **2019**, 37, 227-234	3.5	7
50	Highly stretchable and durable strain sensor based on carbon nanotubes decorated thermoplastic polyurethane fibrous network with aligned wave-like structure. *Chemical Engineering Journal*, **2019**, 360, 762-777	14.7	116
49	Optimization of porous FeNi3/N-GN composites with superior microwave absorption performance. *Chemical Engineering Journal*, **2018**, 345, 441-451	14.7	160
48	A Novel Approach to Design Nanoporous Polyethylene/Polyester Composite Fabric via TIPS for Human Body Cooling. *Macromolecular Materials and Engineering*, **2018**, 303, 1700456	3.9	22
47	A highly stretchable and stable strain sensor based on hybrid carbon nanofillers/polydimethylsiloxane conductive composites for large human motions monitoring. *Composites Science and Technology*, **2018**, 156, 276-286	8.6	199
46	Surface modification of UHMWPE/fabric composite membrane via self-polymerized polydopamine followed by mPEG-NH2 immobilization. *Journal of Applied Polymer Science*, **2018**, 135, 46428	2.9	16
45	Thiol functionalized carbon nanotubes: Synthesis by sulfur chemistry and their multi-purpose applications. *Applied Surface Science*, **2018**, 447, 235-243	6.7	22
44	Comb-shaped aromatic polyamide cross-linked by Diels-Alder chemistry: Towards recyclable and high-performance thermosets. *Polymer*, **2018**, 142, 33-42	3.9	25
43	Promising Free-Standing Polyimide Membrane via Solution Blow Spinning for High Performance Lithium-Ion Batteries. *Industrial & Engineering Chemistry Research*, **2018**, 57, 12296-12305	3.9	16
42	Surface engineering of nanosilica for vitrimer composites. *Composites Science and Technology*, **2018** , 154, 18-27	8.6	50
41	Development of novel cardo-containing phenylethynyl-terminated polyimide with high thermal properties. *Polymers for Advanced Technologies*, **2017**, 28, 222-232	3.2	8

40	Bio-based epoxy vitrimers: Reprocessibility, controllable shape memory, and degradability. *Journal of Polymer Science Part A*, **2017**, 55, 1790-1799	2.5	119
39	Conducting polymer coated metal-organic framework nanoparticles: Facile synthesis and enhanced electromagnetic absorption properties. *Synthetic Metals*, **2017**, 228, 18-24	3.6	138
38	Sensitive and selective detection of nitrite ions with highly fluorescent glutathione-stabilized copper nanoclusters. *Analytical Methods*, **2017**, 9, 5668-5673	3.2	18
37	A facile template approach to nitrogen-doped hierarchical porous carbon nanospheres from polydopamine for high-performance supercapacitors. *Journal of Materials Chemistry A*, **2017**, 5, 18242-18252	13	91
36	Disulfide bonds and metal-ligand co-crosslinked network with improved mechanical and self-healing properties. *Materials Today Communications*, **2017**, 13, 282-289	2.5	23
35	Preparation of Solution Blown Polyamic Acid Nanofibers and Their Imidization into Polyimide Nanofiber Mats. *Nanomaterials*, **2017**, 7,	5.4	20
34	Semi-bio-based aromatic polyamides from 2,5-furandicarboxylic acid: toward high-performance polymers from renewable resources. *RSC Advances*, **2016**, 6, 87013-87020	3.7	37
33	Polydopamine Nanoparticle for Poly(N-Isopropylacrylamide)-Based Nanocomposite Hydrogel with Good Free-Radical-Scavenging Property. *Materials Science Forum*, **2016**, 848, 94-98	0.4	4
32	Poly(ε-caprolactone)-grafted polydopamine particles for biocomposites with near-infrared light triggered self-healing ability. *Polymer*, **2016**, 84, 328-335	3.9	33
31	Hyperbranched polybenzoxazoles incorporated polybenzoxazoles for high-performance and low-K materials. *Journal of Polymer Science Part A*, **2016**, 54, 1623-1632	2.5	16
30	A wormhole-like porous carbon/magnetic particles composite as an efficient broadband electromagnetic wave absorber. *Nanoscale*, **2016**, 8, 8899-909	7.7	266
29	Development and evaluation of UHMWPE/woven fabric composite microfiltration membranes via thermally induced phase separation. *RSC Advances*, **2016**, 6, 90701-90710	3.7	20
28	Super Hydrophobic Properties of Papers Prepared from Multi-Walled Carbon Nanotubes Functionalized with Polybenzimidazole and AgNPs. *Materials Science Forum*, **2015**, 815, 629-633	0.4	2
27	Mussel-adhesive-inspired fabrication of multifunctional silver nanoparticle assemblies. *Langmuir*, **2015**, 31, 5504-12	4	28
26	In Situ Synthesis of Reduced Graphene Oxide-Reinforced Silicone-Acrylate Resin Composite Films Applied in Erosion Resistance. *Journal of Nanomaterials*, **2015**, 2015, 1-8	3.2	4
25	Synthesis of hyperbranched polybenzoxazoles and their molecular composites with epoxy resins. *Journal of Applied Polymer Science*, **2015**, 132, n/a-n/a	2.9	1
24	Tuning the interface of graphene platelets/epoxy composites by the covalent grafting of polybenzimidazole. *Polymer*, **2014**, 55, 4990-5000	3.9	72
23	Polydopamine particles for next-generation multifunctional biocomposites. *Journal of Materials Chemistry A*, **2014**, 2, 7578-7587	13	100

22	Polybenzimidazole assisted fabrication of multiwalled carbon nanotube buckypapers and their silver nanoparticle hybrids. *RSC Advances*, **2014**, 4, 35904-35913	3.7	5
21	Nacre-like graphene paper reinforced by polybenzimidazole. *RSC Advances*, **2013**, 3, 20353	3.7	18
20	Strong and conductive polybenzimidazole composites with high graphene contents. *RSC Advances*, **2013**, 3, 12255	3.7	16
19	Mechanical reinforcement of chitosan using unzipped multiwalled carbon nanotube oxides. *Polymer*, **2012**, 53, 657-664	3.9	36
18	Functionalization of unzipped carbon nanotube via in situ polymerization for mechanical reinforcement of polymer. *Journal of Materials Chemistry*, **2012**, 22, 17663		23
17	Tailoring the characteristics of graphite oxide nanosheets for the production of high-performance poly(vinyl alcohol) composites. *Carbon*, **2012**, 50, 5525-5536	10.4	33
16	Solvent exfoliated graphene for reinforcement of PMMA composites prepared by in situ polymerization. *Materials Chemistry and Physics*, **2012**, 136, 43-50	4.4	45
15	Boron nitride nanosheets: large-scale exfoliation in methanesulfonic acid and their composites with polybenzimidazole. *Journal of Materials Chemistry*, **2011**, 21, 11371		193
14	Facile synthesis of soluble graphene via a green reduction of graphene oxide in tea solution and its biocomposites. *ACS Applied Materials & Interfaces*, **2011**, 3, 1127-33	9.5	459
13	Direct exfoliation of graphene in methanesulfonic acid and facile synthesis of graphene/polybenzimidazole nanocomposites. *Journal of Materials Chemistry*, **2011**, 21, 505-512		69
12	Graphene oxide/polybenzimidazole composites fabricated by a solvent-exchange method. *Carbon*, **2011**, 49, 1199-1207	10.4	149
11	Kevlar oligomer functionalized graphene for polymer composites. *Polymer*, **2011**, 52, 3661-3670	3.9	53
10	Unzipped Multiwalled Carbon Nanotubes for Mechanical Reinforcement of Polymer Composites. *Journal of Physical Chemistry C*, **2010**, 114, 19621-19628	3.8	65
9	Molecular-Level Dispersion of Graphene into Poly(vinyl alcohol) and Effective Reinforcement of their Nanocomposites. *Advanced Functional Materials*, **2009**, 19, 2297-2302	15.6	1350
8	Infrared-Triggered Actuators from Graphene-Based Nanocomposites. *Journal of Physical Chemistry C*, **2009**, 113, 9921-9927	3.8	318
7	Preparation of high-strength and high flame-retardant PMIA/P(an-VC) composite fibers and its conductive fibers. *Journal of the Textile Institute*,1-11	1.5	
6	The Structure and Properties of Polyethylene Oxide Reinforced Poly(Metaphenylene Isophthalamide) Fibers. *Advanced Fiber Materials*,1	10.9	0
5	Dissolving of Ultra-high Molecular Weight Polyethylene Assisted Through Supercritical Carbon Dioxide to Enhance the Mechanical Properties of Fibers. *Advanced Fiber Materials*,1	10.9	2

4	Blending modification of PMIA with poly(vinyl pyrrolidone): towards high-performance material with enhanced mechanical property. *Journal of the Textile Institute*,1-9	1.5	1
3	Sulfone-functionalized poly(p-phenylene terephthalamide) copolymer fibers with improved interfacial adhesion to epoxy matrices. *High Performance Polymers*,095400832110089	1.6	1
2	Atmospheric Drying UHMWPE Membranes via Multiple Stage Extractant Exchange Drying Technique. *Advanced Fiber Materials*,1	10.9	2
1	An accessible strategy for high-performance copper layer fabrication on polyphenylene oxide substrates via polydopamine functionalization and electroless deposition. *Journal of Materials Science: Materials in Electronics*,1	2.1	