Yan Wang

List of Publications by Year
in descending order

95 papers	6,720 citations	136950 32 h-index	62596 80 g-index
95 all docs	95 docs citations	95 times ranked	8644 citing authors

#	Article	IF	Citations
1	Preparation of high-strength and high flame-retardant PMIA/P(an-VC) composite fibers and its conductive fibers. Journal of the Textile Institute, 2023, 114, 303-313.	1.9	0
2	Atmospheric Drying UHMWPE Membranes via Multiple Stage Extractant Exchange Drying Technique. Advanced Fiber Materials, 2022, 4, 235-245.	16.1	6
3	Dissolving of Ultra-high Molecular Weight Polyethylene Assisted Through Supercritical Carbon Dioxide to Enhance the Mechanical Properties of Fibers. Advanced Fiber Materials, 2022, 4, 280-292.	16.1	12
4	In Situ Polymerized Polydopamine Nanoparticles as Enhanced Polymer Composite Electrolyte for Allâ€Solidâ€State Lithiumâ€Ion Batteries. ChemElectroChem, 2022, 9, .	3.4	4
5	The Structure and Properties of Polyethylene Oxide Reinforced Poly(Metaphenylene Isophthalamide) Fibers. Advanced Fiber Materials, 2022, 4, 436-447.	16.1	10
6	Super Strong and Tough Polybenzimidazole/Metal Ions Coordination Networks: Reinforcing Mechanism, Recyclability, and Antiâ€Counterfeiting Applications. Macromolecular Rapid Communications, 2022, 43, e2100643.	3.9	5
7	Strong and multi-responsive composite coiled yarn based on electrospun polyamide-6 nanofiber and carbon nanotube. Materials Today Communications, 2022, 30, 103052.	1.9	3
8	Compression strain-dependent tubular carbon nanofibers/graphene aerogel absorber with ultrabroad absorption band. Chemical Engineering Journal, 2022, 433, 133619.	12.7	23
9	Molecular composite electrolytes of polybenzimidazole/polyethylene oxide with enhanced safety and comprehensive performance for all-solid-state lithium ion batteries. Polymer, 2022, 239, 124450.	3.8	11
10	UHMWPE/nanoparticle composite membrane for personal radiation shielding. Composites Science and Technology, 2021, 201, 108500.	7.8	20
11	Encapsulated coreâ€“sheath carbon nanotubeâ€“graphene/polyurethane composite fiber for highly stable, stretchable, and sensitive strain sensor. Journal of Materials Science, 2021, 56, 2296-2310.	3.7	23
12	Highâ€Efficiency Microwave Attenuation of Magnetic Carbon Nanoparticleâ€Decorated Tubular Carbon Nanofibers Composites at an Ultralow Filling Content. Advanced Electronic Materials, 2021, 7, 2100121.	5.1	10
13	Facile strategy to prepare polyimide nanofiber assembled aerogel for effective airborne particles filtration. Journal of Hazardous Materials, 2021, 415, 125739.	12.4	32
14	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.	5.4	0
15	Poly (vinyl alcohol) based gradient cross-linked and reprogrammable humidity-responsive actuators. Sensors and Actuators B: Chemical, 2021, 349, 130735.	7.8	16
16	Reduced shrinkage and mechanically strong dual-network polyimide aerogel films for effective filtration of particle matter. Separation and Purification Technology, 2021, 276, 119393.	7.9	16
17	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.	4.9	15
18	Blending modification of PMIA with poly(vinyl pyrrolidone): towards high-performance material with enhanced mechanical property. Journal of the Textile Institute, 2021, 112, 2004-2012.	1.9	4

#	Article	IF	Citations
19	Moisture-resistance, mechanical and thermal properties of polyimide aerogels. Journal of Porous Materials, 2020, 27, 237-247.	2.6	20
20	Kinetic study of copolymerized PMIA with ether moiety under air pyrolysis. Journal of Thermal Analysis and Calorimetry, 2020, 140, 283-293.	3.6	4
21	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.	5.5	23
22	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.	3.8	12
23	Electrospun polyamide-6 nanofiber for hierarchically structured and multi-responsive actuator. Sensors and Actuators A: Physical, 2020, 302, 111793.	4.1	21
24	Hyper-Cross-Linked Polymers-Derived Porous Tubular Carbon Nanofibers@TiO₂ toward a Wide-Band and Lightweight Microwave Absorbent at a Low Loading Content. ACS Applied Materials & Interfaces, 2020, 12, 46455-46465.	8.0	43
25	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.	3.8	10
26	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.	7.6	50
27	Polydopamine nanotube for dual bio-inspired strong, tough, and flame retarding composites. Composites Part B: Engineering, 2020, 197, 108184.	12.0	20
28	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.	7.8	25
29	Intercalated Montmorillonite Reinforced Polyimide Separator Prepared by Solution Blow Spinning for Lithium-Ion Batteries. Industrial & Engineering Chemistry Research, 2020, 59, 12879-12888.	3.7	16
30	Hydrophobic, Poreâ€Tunable Polyimide/Polyvinylidene Fluoride Composite Aerogels for Effective Airborne Particle Filtration. Macromolecular Materials and Engineering, 2020, 305, 2000129.	3.6	12
31	Direct fabrication of poly(p-phenylene terephthalamide) aerogel and its composites with great thermal insulation and infrared stealth. Chemical Engineering Journal, 2020, 388, 124310.	12.7	56
32	Air and Water Vapor Permeable UHMWPE Composite Membranes for X-Ray Shielding. Industrial & Engineering Chemistry Research, 2020, 59, 9136-9142.	3.7	9
33	General Bioinspired, Innovative Method for Fabrication of Surface-Nickeled Meta-aramid Fibers. Industrial & Engineering Chemistry Research, 2019, 58, 9458-9464.	3.7	10
34	Coreâ€“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.	8.0	363
35	Novel Poly(mâ€phenyleneisophthalamide) Dielectric Composites with Enhanced Thermal Conductivity and Breakdown Strength Utilizing Functionalized Boron Nitride Nanosheets. Macromolecular Materials and Engineering, 2019, 304, 1900310.	3.6	21
36	Innovative Preâ€Treatment for Fabrication of Conductive PMIA Fibers via Electroless Nickel Plating. Advanced Engineering Materials, 2019, 21, 1801041.	3.5	5

#	Article	IF	Citations
37	Vitrimer Chemistry Assisted Fabrication of Aligned, Healable, and Recyclable Graphene/Epoxy Composites. Frontiers in Chemistry, 2019, 7, 632.	3.6	29
38	Constructing Flexible and CuS-Coated meta-Aramid/Polyacrylonitrile Composite Films with Excellent Coating Adhesion. Industrial & Engineering Chemistry Research, 2019, 58, 17965-17971.	3.7	4
39	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.	5.5	181
40	Low-‹i›k‹/i› and Recyclable High-Performance POSS/Polyamide Composites Based on Dielsâ€“Alder Reaction. ACS Applied Polymer Materials, 2019, 1, 944-952.	4.4	33
41	Poly(p-phenylene terephthalamide) modified PE separators for lithium ion batteries. Journal of Membrane Science, 2019, 581, 355-361.	8.2	55
42	Reversibly cross-linked fullerene/polyamide composites based on Diels-Alder reaction. Composites Science and Technology, 2019, 176, 9-16.	7.8	16
43	Tailoring the architecture of aromatic polymers for highly efficient dispersion of carbon nanomaterials and their high-performance composites. Carbon, 2019, 148, 297-306.	10.3	5
44	Musselâ€inspired polydopamine/polystyrene composites with 3D continuous structure and improved thermal, mechanical, and flame retarding properties. Journal of Applied Polymer Science, 2019, 136, 47740.	2.6	15
45	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.	2.2	23
46	Interfacial polymerized reduced graphene oxide covalently grafted polyaniline nanocomposites for high-performance electromagnetic wave absorber. Journal of Materials Science, 2019, 54, 6410-6424.	3.7	40
47	Mechanically strong and highly efficient healable organic/inorganic hybrid dynamic network. Polymer, 2019, 167, 202-208.	3.8	19
48	Preparation of PMIA dielectric nanocomposite with enhanced thermal conductivity by filling with functionalized grapheneâ€“carbon nanotube hybrid fillers. Applied Nanoscience (Switzerland), 2019, 9, 1743-1757.	3.1	11
49	Synthesis and Characterization of Easily Colored Meta-aramid Copolymer Containing Ether Bonds. Chinese Journal of Polymer Science (English Edition), 2019, 37, 227-234.	3.8	14
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.	12.7	190
51	Optimization of porous FeNi3/N-GN composites with superior microwave absorption performance. Chemical Engineering Journal, 2018, 345, 441-451.	12.7	237
52	A Novel Approach to Design Nanoporous Polyethylene/Polyester Composite Fabric via TIPS for Human Body Cooling. Macromolecular Materials and Engineering, 2018, 303, 1700456.	3.6	44
53	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.	7.8	276
54	Surface modification of UHMWPE/fabric composite membrane via selfâ€polymerized polydopamine followed by mPEGâ€NH‹sub›2‹/sub› immobilization. Journal of Applied Polymer Science, 2018, 135, 46428.	2.6	23

#	Article	IF	Citations
55	Thiol functionalized carbon nanotubes: Synthesis by sulfur chemistry and their multi-purpose applications. Applied Surface Science, 2018, 447, 235-243.	6.1	28
56	Comb-shaped aromatic polyamide cross-linked by Diels-Alder chemistry: Towards recyclable and high-performance thermosets. Polymer, 2018, 142, 33-42.	3.8	35
57	Surface engineering of nanosilica for vitrimer composites. Composites Science and Technology, 2018, 154, 18-27.	7.8	78
58	Promising Free-Standing Polyimide Membrane via Solution Blow Spinning for High Performance Lithium-Ion Batteries. Industrial & Engineering Chemistry Research, 2018, 57, 12296-12305.	3.7	19
59	Development of novel cardo-containing phenylethynyl-terminated polyimide with high thermal properties. Polymers for Advanced Technologies, 2017, 28, 222-232.	3.2	13
60	Bioâ€based epoxy vitrimers: Reprocessibility, controllable shape memory, and degradability. Journal of Polymer Science Part A, 2017, 55, 1790-1799.	2.3	169
61	Conducting polymer coated metal-organic framework nanoparticles: Facile synthesis and enhanced electromagnetic absorption properties. Synthetic Metals, 2017, 228, 18-24.	3.9	179
62	Sensitive and selective detection of nitrite ions with highly fluorescent glutathione-stabilized copper nanoclusters. Analytical Methods, 2017, 9, 5668-5673.	2.7	18
63	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.	10.3	115
64	Disulfide bonds and metal-ligand co-crosslinked network with improved mechanical and self-healing properties. Materials Today Communications, 2017, 13, 282-289.	1.9	29
65	Preparation of Solution Blown Polyamic Acid Nanofibers and Their Imidization into Polyimide Nanofiber Mats. Nanomaterials, 2017, 7, 395.	4.1	28
66	Hyperbranched polybenzoxazoles incorporated polybenzoxazoles for highâ€performance and lowâ€K materials. Journal of Polymer Science Part A, 2016, 54, 1623-1632.	2.3	20
67	A wormhole-like porous carbon/magnetic particles composite as an efficient broadband electromagnetic wave absorber. Nanoscale, 2016, 8, 8899-8909.	5.6	310
68	Development and evaluation of UHMWPE/woven fabric composite microfiltration membranes via thermally induced phase separation. RSC Advances, 2016, 6, 90701-90710.	3.6	23
69	Semi-bio-based aromatic polyamides from 2,5-furandicarboxylic acid: toward high-performance polymers from renewable resources. RSC Advances, 2016, 6, 87013-87020.	3.6	55
70	Poly(Îµ-caprolactone)-grafted polydopamine particles for biocomposites with near-infrared light triggered self-healing ability. Polymer, 2016, 84, 328-335.	3.8	38
71	In Situ Synthesis of Reduced Graphene Oxide-Reinforced Silicone-Acrylate Resin Composite Films Applied in Erosion Resistance. Journal of Nanomaterials, 2015, 2015, 1-8.	2.7	5
72	Synthesis of hyperbranched polybenzoxazoles and their molecular composites with epoxy resins. Journal of Applied Polymer Science, 2015, 132, .	2.6	1

#	Article	IF	Citations
73	Mussel-Adhesive-Inspired Fabrication of Multifunctional Silver Nanoparticle Assemblies. Langmuir, 2015, 31, 5504-5512.	3.5	29
74	Tuning the interface of graphene platelets/epoxy composites by the covalent grafting of polybenzimidazole. Polymer, 2014, 55, 4990-5000.	3.8	87
75	Polydopamine particles for next-generation multifunctional biocomposites. Journal of Materials Chemistry A, 2014, 2, 7578-7587.	10.3	134
76	Polybenzimidazole assisted fabrication of multiwalled carbon nanotube buckypapers and their silver nanoparticle hybrids. RSC Advances, 2014, 4, 35904-35913.	3.6	6
77	Nacre-like graphene paper reinforced by polybenzimidazole. RSC Advances, 2013, 3, 20353.	3.6	18
78	Strong and conductive polybenzimidazole composites with high graphene contents. RSC Advances, 2013, 3, 12255.	3.6	17
79	Functionalization of unzipped carbon nanotube via in situ polymerization for mechanical reinforcement of polymer. Journal of Materials Chemistry, 2012, 22, 17663.	6.7	23
80	Tailoring the characteristics of graphite oxide nanosheets for the production of high-performance poly(vinyl alcohol) composites. Carbon, 2012, 50, 5525-5536.	10.3	37
81	Solvent exfoliated graphene for reinforcement of PMMA composites prepared by in situ polymerization. Materials Chemistry and Physics, 2012, 136, 43-50.	4.0	50
82	Mechanical reinforcement of chitosan using unzipped multiwalled carbon nanotube oxides. Polymer, 2012, 53, 657-664.	3.8	39
83	Boron nitride nanosheets: large-scale exfoliation in methanesulfonic acid and their composites with polybenzimidazole. Journal of Materials Chemistry, 2011, 21, 11371.	6.7	223
84	Facile Synthesis of Soluble Graphene via a Green Reduction of Graphene Oxide in Tea Solution and Its Biocomposites. ACS Applied Materials & Interfaces, 2011, 3, 1127-1133.	8.0	525
85	Direct exfoliation of graphene in methanesulfonic acid and facile synthesis of graphene/polybenzimidazole nanocomposites. Journal of Materials Chemistry, 2011, 21, 505-512.	6.7	79
86	Graphene oxide/polybenzimidazole composites fabricated by a solvent-exchange method. Carbon, 2011, 49, 1199-1207.	10.3	164
87	Kevlar oligomer functionalized graphene for polymer composites. Polymer, 2011, 52, 3661-3670.	3.8	60
88	Unzipped Multiwalled Carbon Nanotubes for Mechanical Reinforcement of Polymer Composites. Journal of Physical Chemistry C, 2010, 114, 19621-19628.	3.1	72
89	Molecularâ€Łevel Dispersion of Graphene into Poly(vinyl alcohol) and Effective Reinforcement of their Nanocomposites. Advanced Functional Materials, 2009, 19, 2297-2302.	14.9	1,481
90	Infrared-Triggered Actuators from Graphene-Based Nanocomposites. Journal of Physical Chemistry C, 2009, 113, 9921-9927.	3.1	355

#	Article	IF	Citations
91	Super Hydrophobic Properties of Papers Prepared from Multi-Walled Carbon Nanotubes Functionalized with Polybenzimidazole and AgNPs. Materials Science Forum, 0, 815, 629-633.	0.3	3
92	Polydopamine Nanoparticle for Poly(N-Isopropylacrylamide)-Based Nanocomposite Hydrogel with Good Free-Radical-Scavenging Property. Materials Science Forum, 0, 848, 94-98.	0.3	6
93	Sulfone-functionalized poly(p-phenylene terephthalamide) copolymer fibers with improved interfacial adhesion to epoxy matrices. High Performance Polymers, 0, , 095400832110089.	1.8	1
94	A synergistic self-assembly strategy to fabricate thermal stable OPAN/PI composite aerogel for particle matter remove. Materials Chemistry Frontiers, 0, , .	5.9	3
95	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, 0, , 1.	2.2	0