Shaohua Jiang

List of Publications by Citations

135 papers	6,334 citations	47 h-index	75 g-index
145 ext. papers	8,251 ext. citations	6.9 avg, IF	6.7 L-index

#	Paper	IF	Citations
135	Stimuli-responsive bio-based polymeric systems and their applications. *Journal of Materials Chemistry B*, **2019**, 7, 709-729	7.3	387
134	Electrospun nanofiber reinforced composites: a review. *Polymer Chemistry*, **2018**, 9, 2685-2720	4.9	336
133	Nanocellulose-Mediated Electroconductive Self-Healing Hydrogels with High Strength, Plasticity, Viscoelasticity, Stretchability, and Biocompatibility toward Multifunctional Applications. *ACS Applied Materials & Interfaces*, **2018**, 10, 27987-28002	9.5	296
132	Unusual and Superfast Temperature-Triggered Actuators. *Advanced Materials*, **2015**, 27, 4865-70	24	200
131	Green Electrospun Nanofibers and Their Application in Air Filtration. *Macromolecular Materials and Engineering*, **2018**, 303, 1800336	3.9	181
130	Recent progress in carbon-based materials for supercapacitor electrodes: a review. *Journal of Materials Science*, **2021**, 56, 173-200	4.3	150
129	Ultralight, Thermally Insulating, Compressible Polyimide Fiber Assembled Sponges. *ACS Applied Materials & Interfaces*, **2017**, 9, 32308-32315	9.5	147
128	Low-Density Open Cellular Sponges as Functional Materials. *Angewandte Chemie - International Edition*, **2017**, 56, 15520-15538	16.4	136
127	Ultralight, Soft Polymer Sponges by Self-Assembly of Short Electrospun Fibers in Colloidal Dispersions. *Advanced Functional Materials*, **2015**, 25, 2850-2856	15.6	134
126	Durable superhydrophobic and superoleophilic electrospun nanofibrous membrane for oil-water emulsion separation. *Journal of Colloid and Interface Science*, **2018**, 532, 12-23	9.3	113
125	Microstructures and mechanical properties of aligned electrospun carbon nanofibers from binary composites of polyacrylonitrile and polyamic acid. *Journal of Materials Science*, **2018**, 53, 15096-15106	4.3	107
124	Flexible and refractory tantalum carbide-carbon electrospun nanofibers with high modulus and electric conductivity. *Materials Letters*, **2017**, 200, 97-100	3.3	106
123	Polyimide Nanofibers by "Green" Electrospinning via Aqueous Solution for Filtration Applications. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 4797-4804	8.3	104
122	Recent Progress on Nanocellulose Aerogels: Preparation, Modification, Composite Fabrication, Applications. *Advanced Materials*, **2021**, 33, e2005569	24	101
121	Giving Direction to Motion and Surface with Ultra-Fast Speed Using Oriented Hydrogel Fibers. *Advanced Functional Materials*, **2016**, 26, 1021-1027	15.6	96
120	Electrospun Functional Materials toward Food Packaging Applications: A Review. *Nanomaterials*, **2020**, 10,	5.4	94
119	Hierarchical three-dimensional micro/nano-architecture of polyaniline nanowires wrapped-on polyimide nanofibers for high performance lithium-ion battery separators. *Journal of Power Sources* , **2015**, 299, 417-424	8.9	93

118	Mechanical flexible PI/MWCNTs nanocomposites with high dielectric permittivity by electrospinning. *European Polymer Journal*, **2014**, 59, 129-135	5.2	92
117	Flexible hdC-G reinforced polyimide composites with high dielectric permittivity. *Composites Part A: Applied Science and Manufacturing*, **2017**, 101, 50-58	8.4	90
116	Nanofibers with diameter below one nanometer from electrospinning.. *RSC Advances*, **2018**, 8, 4794-4802	3.7	87
115	Highly flexible and tough concentric triaxial polystyrene fibers. *ACS Applied Materials & Interfaces*, **2014**, 6, 5918-23	9.5	86
114	Superlithiation of non-conductive polyimide toward high-performance lithium-ion batteries. *Journal of Materials Chemistry A*, **2018**, 6, 21216-21224	13	86
113	Highly foldable PANi@CNTs/PU dielectric composites toward thin-film capacitor application. *Materials Letters*, **2017**, 192, 25-28	3.3	84
112	Polyimide/BaTiO3/MWCNTs three-phase nanocomposites fabricated by electrospinning with enhanced dielectric properties. *Materials Letters*, **2014**, 135, 158-161	3.3	84
111	Tough and transparent nylon-6 electrospun nanofiber reinforced melamine-formaldehyde composites. *ACS Applied Materials & Interfaces*, **2012**, 4, 2597-603	9.5	81
110	Ultra-thin and highly flexible cellulose nanofiber/silver nanowire conductive paper for effective electromagnetic interference shielding. *Composites Part A: Applied Science and Manufacturing*, **2020** , 135, 105960	8.4	77
109	Wood-Inspired Anisotropic Cellulose Nanofibril Composite Sponges for Multifunctional Applications. *ACS Applied Materials & Interfaces*, **2020**, 12, 35513-35522	9.5	77
108	Temperature-induced molecular orientation and mechanical properties of single electrospun polyimide nanofiber. *Materials Letters*, **2018**, 216, 81-83	3.3	70
107	Short electrospun polymeric nanofibers reinforced polyimide nanocomposites. *Composites Science and Technology*, **2013**, 88, 57-61	8.6	69
106	Anisotropic nanocellulose aerogels with ordered structures fabricated by directional freeze-drying for fast liquid transport. *Cellulose*, **2019**, 26, 6653-6667	5.5	66
105	High-density Fibrous Polyimide Sponges with Superior Mechanical and Thermal Properties. *ACS Applied Materials & Interfaces*, **2020**, 12, 19006-19014	9.5	66
104	High strength and high breaking load of single electrospun polyimide microfiber from water soluble precursor. *Materials Letters*, **2017**, 201, 82-84	3.3	60
103	High-performance polyamide-imide films and electrospun aligned nanofibers from an amide-containing diamine. *Journal of Materials Science*, **2019**, 54, 6719-6727	4.3	60
102	Poly(amino acid)-Based Gel Fibers with pH Responsivity by Coaxial Reactive Electrospinning. *Macromolecular Rapid Communications*, **2017**, 38, 1700147	4.8	56
101	Progress in the Field of Water- and/or Temperature-Triggered Polymer Actuators. *Macromolecular Materials and Engineering*, **2019**, 304, 1800548	3.9	56

100	N-doped honeycomb-like porous carbon towards high-performance supercapacitor. *Chinese Chemical Letters*, **2020**, 31, 1986-1990	8.1	55
99	Superior mechanical enhancement of epoxy composites reinforced by polyimide nanofibers via a vacuum-assisted hot-pressing. *Composites Science and Technology*, **2019**, 174, 20-26	8.6	54
98	High permittivity nanocomposites fabricated from electrospun polyimide/BaTiO3 hybrid nanofibers. *Polymer Composites*, **2016**, 37, 794-801	3	54
97	Short nylon-6 nanofiber reinforced transparent and high modulus thermoplastic polymeric composites. *Composites Science and Technology*, **2013**, 87, 164-169	8.6	53
96	Carbonization: A feasible route for reutilization of plastic wastes. *Science of the Total Environment*, **2020**, 710, 136250	10.2	53
95	Spongy Gels by a Top-Down Approach from Polymer Fibrous Sponges. *Angewandte Chemie - International Edition*, **2017**, 56, 3285-3288	16.4	52
94	Novel layer-by-layer procedure for making nylon-6 nanofiber reinforced high strength, tough, and transparent thermoplastic polyurethane composites. *ACS Applied Materials & Interfaces*, **2012**, 4, 4366-72	9.5	52
93	Exploration of Macroporous Polymeric Sponges As Drug Carriers. *Biomacromolecules*, **2017**, 18, 3215-3226	6.9	50
92	Electrospun fibrous materials and their applications for electromagnetic interference shielding: A review. *Composites Part A: Applied Science and Manufacturing*, **2021**, 143, 106309	8.4	50
91	Short electrospun carbon nanofiber reinforced polyimide composite with high dielectric permittivity. *Materials Letters*, **2015**, 161, 431-434	3.3	48
90	Robust Superamphiphobic Coatings Based on Raspberry-like Hollow SnO Composites. *Langmuir*, **2020**, 36, 11044-11053	4	48
89	Ultrafine hollow TiO2 nanofibers from core-shell composite fibers and their photocatalytic properties. *Composites Communications*, **2018**, 9, 76-80	6.7	48
88	Low-Density Self-Assembled Poly(N-Isopropyl Acrylamide) Sponges with Ultrahigh and Extremely Fast Water Uptake and Release. *Macromolecular Rapid Communications*, **2018**, 39, e1700838	4.8	44
87	Molecular orientation in aligned electrospun polyimide nanofibers by polarized FT-IR spectroscopy. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2018**, 200, 339-344	4.4	44
86	Mechanically strong sulfonated polybenzimidazole PEMs with enhanced proton conductivity. *Materials Letters*, **2019**, 234, 354-356	3.3	42
85	Exploration of the Electrical Conductivity of Double-Network Silver Nanowires/Polyimide Porous Low-Density Compressible Sponges. *ACS Applied Materials & Interfaces*, **2017**, 9, 34286-34293	9.5	41
84	Electrospun nanofiber reinforced all-organic PVDF/PI tough composites and their dielectric permittivity. *Materials Letters*, **2015**, 160, 515-517	3.3	40
83	Composite Polymeric Membranes with Directionally Embedded Fibers for Controlled Dual Actuation. *Macromolecular Rapid Communications*, **2018**, 39, e1800082	4.8	39

82	Ultralight open cell polymer sponges with advanced properties by PPX CVD coating. *Polymer Chemistry*, **2016**, 7, 2759-2764	4.9	39
81	Highly strong and highly tough electrospun polyimide/polyimide composite nanofibers from binary blend of polyamic acids. *RSC Advances*, **2014**, 4, 59936-59942	3.7	39
80	Thermophilic films and fibers from photo cross-linkable UCST-type polymers. *Polymer Chemistry*, **2015**, 6, 2769-2776	4.9	37
79	Anisotropy-functionalized cellulose-based phase change materials with reinforced solar-thermal energy conversion and storage capacity. *Chemical Engineering Journal*, **2021**, 415, 129086	14.7	37
78	Mechanical performance of aligned electrospun polyimide nanofiber belt at high temperature. *Materials Letters*, **2015**, 140, 12-15	3.3	36
77	Ionic liquid-induced nanoporous structures of polymer films. *Chemical Communications*, **2020**, 56, 3054-3057	5.7	36
76	Two-in-One Composite Fibers With Side-by-Side Arrangement of Silk Fibroin and Poly(l-lactide) by Electrospinning. *Macromolecular Materials and Engineering*, **2016**, 301, 48-55	3.9	36
75	A flame-retardant and transparent wood/polyimide composite with excellent mechanical strength. *Composites Communications*, **2020**, 20, 100355	6.7	35
74	Low Density, Thermally Stable, and Intrinsic Flame Retardant Poly(bis(benzimidazo)Benzophenanthroline-dione) Sponge. *Macromolecular Materials and Engineering*, **2018**, 303, 1700615	3.9	35
73	Enhanced visible light photocatalytic efficiency of La-doped ZnO nanofibers via electrospinning-calcination technology **2021**,		34
72	Phosphorus-doped thick carbon electrode for high-energy density and long-life supercapacitors. *Chemical Engineering Journal*, **2021**, 414, 128767	14.7	34
71	Mechanical properties and chemical resistance of electrospun polyterafluoroethylene fibres. *RSC Advances*, **2016**, 6, 24250-24256	3.7	33
70	Porous aerogel and sponge composites: Assisted by novel nanomaterials for electromagnetic interference shielding. *Nano Today*, **2021**, 38, 101204	17.9	33
69	Flexible titanium carbide□carbon nanofibers with high modulus and high conductivity by electrospinning. *Materials Letters*, **2016**, 165, 91-94	3.3	30
68	High performance polyimide-Yb complex with high dielectric constant and low dielectric loss. *Materials Letters*, **2014**, 133, 240-242	3.3	30
67	Modification of precursor polymer using co-polymerization: A good way to high performance electrospun carbon nanofiber bundles. *Materials Letters*, **2014**, 122, 178-181	3.3	29
66	Natural source derived carbon paper supported conducting polymer nanowire arrays for high performance supercapacitors. *RSC Advances*, **2015**, 5, 14441-14447	3.7	29
65	Pyrolysis of Enzymolysis-Treated Wood: Hierarchically Assembled Porous Carbon Electrode for Advanced Energy Storage Devices. *Advanced Functional Materials*, **2021**, 31, 2101077	15.6	26

64	Dielectric, mechanical and thermal properties of all-organic PI/PSF composite films by in situ polymerization. *E-Polymers*, **2020**, 20, 226-232	2.7	24
63	Molecular engineering of carbonyl organic electrodes for rechargeable metal-ion batteries: fundamentals, recent advances, and challenges. *Energy and Environmental Science*,	35.4	24
62	Polymer nanofibre composite nonwovens with metal-like electrical conductivity. *Npj Flexible Electronics*, **2018**, 2,	10.7	23
61	Nitrogen, sulfur co-doped hierarchical carbon encapsulated in graphene with "sphere-in-layer" interconnection for high-performance supercapacitor. *Journal of Colloid and Interface Science*, **2021**, 599, 443-452	9.3	23
60	Thermal, mechanical and thermomechanical properties of tough electrospun poly(imide-co-benzoxazole) nanofiber belts. *New Journal of Chemistry*, **2015**, 39, 7797-7804	3.6	22
59	Tailoring the Morphology of Responsive Bioinspired Bicomponent Fibers. *Macromolecular Materials and Engineering*, **2018**, 303, 1700248	3.9	22
58	Single electrospun nanofiber and aligned nanofiber belts from copolyimide containing pyrimidine units. *New Journal of Chemistry*, **2015**, 39, 8956-8963	3.6	21
57	Free-standing mesoporous electrospun carbon nanofiber webs without activation and their electrochemical performance. *Materials Letters*, **2015**, 161, 587-590	3.3	21
56	Electrospinning of ABS nanofibers and their high filtration performance. *Advanced Fiber Materials*, **2020**, 2, 34-43	10.9	19
55	Heat-resistant polybenzoxazole nanofibers made by electrospinning. *European Polymer Journal*, **2014**, 50, 61-68	5.2	19
54	High dielectric constant polyimide derived from 5,5?-bis[(4-amino) phenoxy]-2,2?-bipyrimidine. *Journal of Applied Polymer Science*, **2014**, 131, n/a-n/a	2.9	17
53	Anisotropic cellulose nanofibril composite sponges for electromagnetic interference shielding with low reflection loss. *Carbohydrate Polymers*, **2022**, 276, 118799	10.3	17
52	Nanocellulose and its derived composite electrodes toward supercapacitors: Fabrication, properties, and challenges. *Journal of Bioresources and Bioproducts*, **2022**,	18.7	17
51	Spongy Gels by a Top-Down Approach from Polymer Fibrous Sponges. *Angewandte Chemie*, **2017**, 129, 3333-3336	3.6	16
50	Two Growth Mechanisms of Thiol-Capped Gold Nanoparticles Controlled by Ligand Chemistry. *Langmuir*, **2019**, 35, 12130-12138	4	16
49	PTX-loaded three-layer PLGA/CS/ALG nanoparticle based on layer-by-layer method for cancer therapy. *Journal of Biomaterials Science, Polymer Edition*, **2018**, 29, 1566-1578	3.5	16
48	Multi-walled carbon nanotubes decrease neuronal NO synthase in 3D brain organoids. *Science of the Total Environment*, **2020**, 748, 141384	10.2	16
47	3D printing hydrogels for actuators: A review. *Chinese Chemical Letters*, **2021**, 32, 2923-2923	8.1	16

46	Highly flexible carbon nanotubes/aramid nanofibers composite papers with ordered and layered structures for efficient electromagnetic interference shielding. *Composites Communications*, **2021**, 27, 100879	6.7	16
45	Wood-Derived, Conductivity and Hierarchical Pore Integrated Thick Electrode Enabling High Areal/Volumetric Energy Density for Hybrid Capacitors. *Small*, **2021**, 17, e2102532	11	15
44	Liquid Transport and Real-Time Dye Purification Lotus Petiole-Inspired Long-Range-Ordered Anisotropic Cellulose Nanofibril Aerogels. *ACS Nano*, **2021**,	16.7	15
43	Thioetherimide-Modified Cyanate Ester Resin with Better Molding Performance for Glass Fiber Reinforced Composites. *Polymers*, **2019**, 11,	4.5	14
42	Fatsia Japonica-Derived Hierarchical Porous Carbon for Supercapacitors With High Energy Density and Long Cycle Life. *Frontiers in Chemistry*, **2020**, 8, 89	5	14
41	Camellia Pollen-Derived Carbon with Controllable N Content for High-Performance Supercapacitors by Ammonium Chloride Activation and Dual N-Doping. *ChemNanoMat*, **2021**, 7, 34-43	3.5	14
40	Recent progress in template-assisted synthesis of porous carbons for supercapacitors **2022**, 1, 100018		13
39	Comparison of the heteroatoms-doped biomass-derived carbon prepared by one-step nitrogen-containing activator for high performance supercapacitor. *Diamond and Related Materials*, **2021**, 114, 108316	3.5	13
38	Electrode thickness design toward bulk energy storage devices with high areal/volumetric energy density. *Applied Energy*, **2021**, 289, 116734	10.7	13
37	Hierarchical porous Co3O4 nanocages with elaborate microstructures derived from ZIF-67 toward lithium storage. *Vacuum*, **2021**, 184, 109879	3.7	13
36	Template Assisted Change in Morphology from Particles to Nanofibers by Side-by-Side Electrospinning of Block Copolymers. *Macromolecular Materials and Engineering*, **2014**, 299, 1298-1305	3.9	12
35	Heat and Solvent Resistant Electrospun Polybenzoxazole Nanofibers from Methoxy-Containing Polyaramide. *Journal of Nanomaterials*, **2010**, 2010, 1-5	3.2	12
34	Hydrothermal Synthesis of Ce-doped ZnO Heterojunction Supported on Carbon Nanofibers with High Visible Light Photocatalytic Activity. *Chemical Research in Chinese Universities*, **2021**, 37, 565-570	2.2	12
33	Self-Adhesive Polyimide (PI)@Reduced Graphene Oxide (RGO)/PI@Carbon Nanotube (CNT) Hierarchically Porous Electrodes: Maximizing the Utilization of Electroactive Materials for Organic Li-Ion Batteries. *Energy Technology*, **2020**, 8, 2000397	3.5	11
32	MnO2 mediated sequential oxidation/olefination of alkyl-substituted heteroarenes with alcohols. *Tetrahedron*, **2020**, 76, 130968	2.4	11
31	Base-Mediated Amination of Alcohols Using Amidines. *Journal of Organic Chemistry*, **2020**, 85, 7728-7738	4.2	10
30	Recent advances in carbon substrate supported nonprecious nanoarrays for electrocatalytic oxygen evolution. *Journal of Materials Chemistry A*, **2021**, 9, 25773-25795	13	10
29	Water molecule-induced hydrogen bonding between cellulose nanofibers toward highly strong and tough materials from wood aerogel. *Chinese Chemical Letters*, **2021**,	8.1	10

28	Direct Ink Writing of Flexible Electronics on Paper Substrate with Graphene/Polypyrrole/Carbon Black Ink. *Journal of Electronic Materials*, **2019**, 48, 3157-3168	1.9	9
27	Intertwined carbon networks derived from Polyimide/Cellulose composite as porous electrode for symmetrical supercapacitor. *Journal of Colloid and Interface Science*, **2021**, 609, 179-187	9.3	9
26	ZnCl2 regulate flax-based porous carbon fiber for long cycle stability supercapacitors. *New Journal of Chemistry*,	3.6	9
25	Facile synthesis, characterization and application of highly active palladium nano-network structures supported on electrospun carbon nanofibers. *RSC Advances*, **2014**, 4, 42732-42736	3.7	8
24	Excellent fluoride removal performance by electrospun La□Mn bimetal oxide nanofibers. *New Journal of Chemistry*, **2022**, 46, 490-497	3.6	8
23	Core effect on mechanical properties of one dimensional electrospun core-sheath composite fibers. *Composites Communications*, **2021**, 25, 100773	6.7	8
22	Polymer-Based Nanocomposites with High Dielectric Permittivity **2019**, 201-243		8
21	Offenzellige Schw□mme mit niedrigen Dichten als Funktionsmaterialien. *Angewandte Chemie*, **2017**, 129, 15726-15745	3.6	7
20	An Electrospinning Anisotropic Hydrogel with Remotely-Controlled Photo-Responsive Deformation and Long-Range Navigation for Synergist Actuation. *Chemical Engineering Journal*, **2022**, 433, 134258	14.7	7
19	Nanofibrous Structures **2019**, 93-122		5
18	Electrospun fiber membrane with asymmetric NO release for the differential regulation of cell growth. *Bio-Design and Manufacturing*, **2021**, 4, 469-478	4.7	5
17	Impregnation of poplar wood with multi-functional composite modifier and induction of in-situ polymerization by heating. *Journal of Wood Chemistry and Technology*, **2021**, 41, 220-228	2	5
16	Hydrogen-Bonding-Aided Fabrication of Wood Derived Cellulose Scaffold/Aramid Nanofiber into High-Performance Bulk Material. *Materials*, **2021**, 14,	3.5	5
15	Flexible TaC/C electrospun non-woven fabrics with multiple spatial-scale conductive frameworks for efficient electromagnetic interference shielding. *Composites Part A: Applied Science and Manufacturing*, **2021**, 106662	8.4	5
14	Lightweight and anisotropic cellulose nanofibril/rectorite composite sponges for efficient dye adsorption and selective separation.. *International Journal of Biological Macromolecules*, **2022**, 207, 130-139	7.9	5
13	Virtually Wall-Less Tubular Sponges as Compartmentalized Reaction Containers. *Research*, **2019**, 2019, 4152536	7.8	4
12	Extraction and characterization of novel ultrastrong and tough natural cellulosic fiber bundles from manau rattan (Calamus manan). *Industrial Crops and Products*, **2021**, 173, 114103	5.9	4
11	Microstructures and electrochemical performances of TiO2-coated Mg□r co-doped NCM as a cathode material for lithium-ion batteries with high power and long circular life. *New Journal of Chemistry*,	3.6	4

10	Electrospun TaC/Fe3C Fe carbon composite fabrics for high efficiency of electromagnetic interference shielding. *Composites Communications*, **2022**, 31, 101130	6.7	4
9	Influence of pre-oxidation on mechanical properties of single electrospun polyacrylonitrile nanofiber. *Materials Today Communications*, **2021**, 26, 102069	2.5	3
8	Temperature-Dependent Electromagnetic Microwave Absorbing Characteristics of Stretchable Polyurethane Composite Foams with Ultrawide Bandwidth. *Advanced Engineering Materials*,2101489	3.5	2
7	Freezing-Extraction/Vacuum-Drying Method for Robust and Fatigue-Resistant Polyimide Fibrous Aerogels and Their Composites with Enhanced Fire Retardancy. *Engineering*, **2021**,	9.7	2
6	Progress on organic potassium salts involved synthesis of porous carbon nanomaterials: microstructure engineering for advanced supercapacitors. *Nanoscale*,	7.7	2
5	Wood-Derived High-Mass-Loading MnO Composite Carbon Electrode Enabling High Energy Density and High-Rate Supercapacitor.. *Small*, **2022**, e2201307	11	2
4	Electrospun magnetic La2O3 CeO2 Fe3O4 composite nanofibers for removal of fluoride from aqueous solution. *Composites Communications*, **2022**, 33, 101194	6.7	2
3	Giving Penetrable Remote-Control Ability to Thermoresponsive Fibrous Composite Actuator with Fast Response Induced by Alternative Magnetic Field.. *Nanomaterials*, **2021**, 12,	5.4	1
2	Preparation of Porous Activated Carbon Materials and Their Application in Supercapacitors. *Engineering Materials*, **2022**, 587-612	0.4	0
1	Biomass carbon materials with porous array structures derived from soybean dregs for effective electromagnetic wave absorption. *Diamond and Related Materials*, **2022**, 126, 109054	3.5	0