## Polyacrylonitrile-based nanofibersâ€"A state-of-the-ar

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**Citation Report** 

#	Article	IF	CITATIONS
1	Nanomanufacturing of large area carbon nanofibers using tube nozzle electrospinning (TNE), lithography and carbonization processes. , 2012, , .		5
2	Method for Production of Polymer and Carbon Nanofibers from Water-Soluble Polymers. Nano Letters, 2012, 12, 3857-3860.	9.1	52
3	Facile synthesis of nitrogen-doped carbon–Pt nanoparticle hybrids via carbonization of poly([Bvim][Br]-co-acrylonitrile) for electrocatalytic oxidation of methanol. Journal of Materials Chemistry, 2012, 22, 13578.	6.7	63
4	Surface modification of polyacrylonitrile nanofibrous membranes with superior antibacterial and easy-cleaning properties through hydrophilic flexible spacers. Journal of Membrane Science, 2012, 417-418, 20-27.	8.2	80
5	Carbon Nanofibers Prepared via Electrospinning. Advanced Materials, 2012, 24, 2547-2566.	21.0	686
6	Polyacrylonitrile/polybenzoxazine-based Fe3O4@carbon nanofibers: hierarchical porous structure and magnetic adsorption property. Journal of Materials Chemistry, 2012, 22, 15919.	6.7	102
7	One-step fabrication of antibacterial (silver nanoparticles/poly(ethylene oxide)) – Polyurethane bicomponent hybrid nanofibrous mat by dual-spinneret electrospinning. Materials Chemistry and Physics, 2012, 134, 557-561.	4.0	62
8	In situ transmission electron microscope tensile testing reveals structure–property relationships in carbon nanofibers. Carbon, 2013, 60, 246-253.	10.3	55
9	Fabrication and photocatalytic activity of electrospun nylon-6 nanofibers containing tourmaline and titanium dioxide nanoparticles. Ceramics International, 2013, 39, 7143-7148.	4.8	23
10	Dual template method to prepare hierarchical porous carbon nanofibers for high-power supercapacitors. Journal of Solid State Electrochemistry, 2013, 17, 2731-2739.	2.5	21
11	Conducting polymers. VI. Effect of doping with iodine on the dielectrical and electrical conduction properties of polyacrylonitrile. Solid State Sciences, 2013, 24, 140-146.	3.2	31
12	Plasma oxidation and stabilization of electrospun polyacrylonitrile nanofiber for carbon nanofiber for carbon for carbon nanofiber formation. Applied Physics A: Materials Science and Processing, 2013, 113, 703-712.	2.3	16
13	Two-nozzle electrospinning of (MWNT/PU)/PU nanofibrous composite mat with improved mechanical and thermal properties. Current Applied Physics, 2013, 13, 1247-1255.	2.4	44
14	Parameter study and characterization for polyacrylonitrile nanofibers fabricated via centrifugal spinning process. European Polymer Journal, 2013, 49, 3834-3845.	5.4	157
15	Osteocompatibility characterization of polyacrylonitrile carbon nanofibers containing bioactive glass nanoparticles. Carbon, 2013, 56, 288-295.	10.3	46
16	Preoxidated polyacrylonitrile fiber mats supported copper catalyst for Mizoroki–Heck cross-coupling reactions. Applied Catalysis A: General, 2013, 468, 26-31.	4.3	10
17	Electrospun MgO-loaded carbon nanofibers: Enhanced field electron emission from the fibers in vacuum. Journal of Physics and Chemistry of Solids, 2013, 74, 328-337.	4.0	11
18	Improved mechanical properties of solution-cast silicone film reinforced with electrospun polyurethane nanofiber containing carbon nanotubes. Applied Surface Science, 2013, 264, 453-458.	6.1	31

#	Article	IF	CITATIONS
19	Si(B)CN-doped carbon nanofibers with excellent oxidation resistance. Materials Letters, 2013, 112, 124-128.	2.6	8
20	Preparation of nitrogen-doped carbon submicrotubes by coaxial electrospinning and their electrocatalytic activity for oxygen reduction reaction in acid media. Electrochimica Acta, 2013, 96, 225-229.	5.2	32
21	Graphitization thermal treatment of carbon nanofibers. Carbon, 2013, 59, 2-32.	10.3	96
22	Coalescing filtration of oily wastewaters: characterization and application of thermal treated, electrospun polystyrene filters. Desalination and Water Treatment, 2013, 51, 5974-5986.	1.0	47
23	Carbon Nanomaterials for Implant Dentistry and Bone Tissue Engineering. , 2013, , 359-388.		0
24	Electrospun carbon nanofibers from polyacrylonitrile blended with activated or graphitized carbonaceous materials for improving anodic bioelectrocatalysis. Bioresource Technology, 2013, 132, 121-126.	9.6	46
25	Pyrolysis Pathways of Sulfonated Polyethylene, an Alternative Carbon Fiber Precursor. Journal of the American Chemical Society, 2013, 135, 6130-6141.	13.7	60
26	Heat-Treated Polyacrylonitrile (PAN) Hollow Fiber Structured Packings in Isopropanol (IPA)/Water Distillation with Improved Thermal and Chemical Stability. Industrial & Engineering Chemistry Research, 2013, 52, 6492-6501.	3.7	27
27	Stabilization Process of PAN Nanofibers. , 2013, , 125-139.		0
28	<i>Withdrawn</i> : Performance enhancement of electrospun carbon fibrous nanostructures. Journal of Applied Polymer Science, 2013, 129, 3077-3077.	2.6	2
29	Nanofibers and thin films as a selective membrane for sensors and microTAS. Journal of Physics: Conference Series, 2013, 421, 012013.	0.4	4
30	Molecular level computational studies of polyethylene and polyacrylonitrile composites containing single walled carbon nanotubes: effect of carboxylic acid functionalization on nanotube-polymer interfacial properties. Frontiers in Chemistry, 2014, 2, 74.	3.6	7
31	Effect of Tio2 Content and Process Parameters on Electrospun Poly(Acrylonitrile)/Tio2 Nanofibres. Polymers and Polymer Composites, 2014, 22, 519-526.	1.9	4
32	Assessment of atomic force and scanning electron microscopes for characterization of commercial and electrospun nylon membranes for coke removal from wastewater. Desalination and Water Treatment, 2014, 52, 6611-6619.	1.0	19
33	Synthesis and Thermal Properties of Acrylonitrile/Butyl Acrylate/Fumaronitrile and Acrylonitrile/Ethyl Hexyl Acrylate/Fumaronitrile Terpolymers as a Potential Precursor for Carbon Fiber. Materials, 2014, 7, 6207-6223.	2.9	17
34	The effect of needleless electrospun nanofibrous interleaves on mechanical properties of carbon fabrics/epoxy laminates. EXPRESS Polymer Letters, 2014, 8, 62-72.	2.1	58
35	Facile Production of Polypyrrole Nanofibers Using a Freezeâ€Drying Method. Macromolecular Chemistry and Physics, 2014, 215, 669-674.	2.2	10
36	High Throughput Printing of Nanostructured Carbon Electrodes for Supercapacitors. Advanced Materials Interfaces, 2014, 1, 1300014.	3.7	34

#	Article	IF	CITATIONS
37	Supported palladium nanoparticles on preoxidated polyacrylonitrile fiber mat for coupling reactions. Fibers and Polymers, 2014, 15, 2233-2237.	2.1	8
38	Influence of KMnO4 concentration and treatment time on PAN precursor and the resulting carbon nanofibers' properties. E-Polymers, 2014, 14, 363-372.	3.0	7
39	Adsorptive removal of malachite green dye by functionalized electrospun PAN nanofibers membrane. Fibers and Polymers, 2014, 15, 2272-2282.	2.1	34
40	Preparation of Hollow/Porous Carbon Nanofibers from PAN with High Molecular Weight. Advanced Materials Research, 0, 912-914, 277-280.	0.3	0
41	Growth mechanism of bioglass nanoparticles in polyacrylonitrile-based carbon nanofibers. RSC Advances, 2014, 4, 64299-64309.	3.6	12
42	A review: carbon nanofibers from electrospun polyacrylonitrile and their applications. Journal of Materials Science, 2014, 49, 463-480.	3.7	483
43	Handbook of Polymernanocomposites. Processing, Performance and Application. , 2014, , .		13
44	Characteristic assessment of stabilized polyacrylonitrile nanowebs for the production of activated carbon nano-sorbents. Chinese Journal of Polymer Science (English Edition), 2014, 32, 449-457.	3.8	13
45	Electrospun oxime-grafted-polyacrylonitrile nanofiber membrane and its application to the adsorption of dyes. Journal of Polymer Research, 2014, 21, 1.	2.4	28
46	Nanofibrous polydopamine complex membranes for adsorption of Lanthanum (III) ions. Chemical Engineering Journal, 2014, 244, 307-316.	12.7	106
47	Direct synthesis of novel vanadium oxide embedded porous carbon nanofiber decorated with iron nanoparticles as a low-cost and highly efficient visible-light-driven photocatalyst. Journal of Colloid and Interface Science, 2014, 417, 199-205.	9.4	26
48	A simple approach to constructing antibacterial and anti-biofouling nanofibrous membranes. Biofouling, 2014, 30, 313-322.	2.2	32
49	Surface functionalized nanofibers for the removal of chromium(VI) from aqueous solutions. Chemical Engineering Journal, 2014, 245, 201-209.	12.7	156
50	Development of a disposable electrode modified with carbonized, grapheneâ€loaded nanofiber for the detection of dopamine in human serum. Journal of Applied Polymer Science, 2014, 131, .	2.6	8
51	Carbon Nanofibers Via Electrospinning. , 2014, , 165-188.		3
52	Antibacterial activity of polyacrylonitrile–chitosan electrospun nanofibers. Carbohydrate Polymers, 2014, 102, 231-237.	10.2	61
53	High-energy asymmetric supercapacitor based on petal-shaped MnO2 nanosheet and carbon nanotube-embedded polyacrylonitrile-based carbon nanofiber working at 2ÂV in aqueous neutral electrolyte. Journal of Power Sources, 2014, 249, 1-8.	7.8	69
54	Encapsulation of therapeutic lavender oil in an electrolyte assisted polyacrylonitrile nanofibres for antibacterial applications. RSC Advances, 2014, 4, 54892-54901.	3.6	65

#	Article	IF	CITATIONS
55	An easily accessible carbon material derived from carbonization of polyacrylonitrile ultrathin films: ambipolar transport properties and application in a CMOS-like inverter. Chemical Communications, 2014, 50, 2374.	4.1	13
56	Electrospun nanofibers with a core–shell structure of silicon nanoparticles and carbon nanotubes in carbon for use as lithium-ion battery anodes. Journal of Materials Chemistry A, 2014, 2, 15094-15101.	10.3	37
57	Facile synthesis of highly branched poly(acrylonitrile-co-vinyl acetate)s with low viscosity and high thermal stability via radical aqueous solution polymerization. Polymer Chemistry, 2014, 5, 3326-3334.	3.9	20
58	Fabrication and characterization of carbon nanofiber@mesoporous carbon core-shell composite for the Li-air battery. Applied Surface Science, 2014, 320, 435-440.	6.1	25
59	Core-Shell Tubular Nanostructured Electrode of Hollow Carbon Nanofiber/Manganese Oxide for Electrochemical Capacitors. Electrochimica Acta, 2014, 141, 39-44.	5.2	29
60	Silicon nanoparticle and carbon nanotube loaded carbon nanofibers for use in lithium-ion battery anodes. Synthetic Metals, 2014, 198, 36-40.	3.9	22
61	Review: the characterization of electrospun nanofibrous liquid filtration membranes. Journal of Materials Science, 2014, 49, 6143-6159.	3.7	85
62	Enhanced electrical properties of electrospun nylon66 nanofibers containing carbon nanotube fillers and Ag nanoparticles. Fibers and Polymers, 2014, 15, 918-923.	2.1	7
63	A Facile Route toward Structured Hybrid Particles Based on Liquid–Solid Assembly. Macromolecules, 2014, 47, 1030-1038.	4.8	5
64	Electrospun precursor carbon nanofibers optimization by using response surface methodology. Journal of Electrostatics, 2014, 72, 462-469.	1.9	20
65	Electrospun coaxial titanium dioxide/carbon nanofibers for use in anodes of dye-sensitized solar cells. Electrochimica Acta, 2014, 142, 144-151.	5.2	19
66	Thermally stable and solvent resistant self-crosslinked TiO2/PAN hybrid hollow fiber membrane fabricated by mutual supporting method. Journal of Membrane Science, 2014, 467, 253-261.	8.2	30
67	Advances in three-dimensional nanofibrous macrostructures via electrospinning. Progress in Polymer Science, 2014, 39, 862-890.	24.7	623
68	Enhancing the mechanical and thermal properties of polyacrylonitrile through blending with tea polyphenol. Journal of Applied Polymer Science, 2014, 131, .	2.6	6
70	Thermal, Electrical and Surface Hydrophobic Properties of Electrospun Polyacrylonitrile Nanofibers for Structural Health Monitoring. Materials, 2015, 8, 7017-7031.	2.9	105
71	Electrospun Carbon Nanofiber Membranes for Filtration of Nanoparticles from Water. Journal of Nanomaterials, 2015, 2015, 1-9.	2.7	70
72	Porous carbon nanofibers formed in situ by electrospinning with a volatile solvent additive into an ice water bath for lithium–sulfur batteries. RSC Advances, 2015, 5, 23749-23757.	3.6	20
73	Gasoline Vapor Sensor Based on Cr-containing Polyacrylonitrile Nanocomposite Films through Artificial Neural Networks Application. Materials Today: Proceedings, 2015, 2, 77-84.	1.8	5

ARTICLE IF CITATIONS # Magneticâ€fieldâ€assisted electrospinning highly aligned composite nanofibers containing wellâ€aligned multiwalled carbon nanotubes. Journal of Applied Polymer Science, 2015, 132, . 2.6 30 74 Graphene/polypyrrole-coated carbon nanofiber coreâ€"shell architecture electrode for 3.6 electrochemical capacitors. RSC Advances, 2015, 5, 12692-12699. Supercapacitor performance of carbon nanofiber electrodes derived from immiscible PAN/PMMA 76 122 3.6 polymer blends. RSC Advances, 2015, 5, 19865-19873. Preparation and characterization of interconnected carbon nanofibers. Textile Reseach Journal, 2015, 85, 3-12. Preparation of Mesoporous Si@PAN Electrodes for Li-Ion Batteries via the In-Situ Polymerization of 78 1.9 8 PAN. ECS Electrochemistry Letters, 2015, 4, A33-A36. The Effect of Surfactant "2-[(3-Dodecanamidopropyl)dimethylaminio] Acetate―on Structural 79 Properties of Polyacrylonitrile Copolymer. Arabian Journal for Science and Engineering, 2015, 40, 1.1 2937-2943. Nanoporous structured carbon nanofiber–bioactive glass composites for skeletal tissue 80 5.8 19 regeneration. Journal of Materials Chemistry B, 2015, 3, 5300-5309. Electrospun MOF nanofibers as hydrogen storage media. International Journal of Hydrogen Energy, 7.1 58 2015, 40, 9382-9387. Macroscopically Aligned Graphite Films Prepared from Iodine-Doped Stretchable Polyacetylene Films 82 Using Morphology-Retaining Carbonization. Journal of the American Chemical Society, 2015, 137, 13.7 29 9077-9087. Facile fabrication of porous carbon nanofibers by electrospun PAN/dimethyl sulfone for capacitive 10.3 79 deionization. Journal of Materials Chemistry A, 2015, 3, 13827-13834. Electrospun Nanofibrous Membranes of Polyacrylonitrile/Halloysite with Superior Water Filtration 127 84 3.1 Ability. Journal of Physical Chemistry C, 2015, 119, 7949-7958. Study of the properties of nanocomposite cobalt-containing IR-pyrolyzed polyacrylonitrile films. Surface Engineering and Applied Electrochemistry, 2015, 51, 9-17. 0.8 Fabrication of CNFs/ZnO nanocomposites with enhanced photocatalytic activity and mechanical 86 2.18 properties. Fibers and Polymers, 2015, 16, 113-119. High-Quality Carbon Nanofiber-Based Chemically Preoxidized Electrospun Nanofiber. Fullerenes Nanotubes and Carbon Nanostructures, 2015, 23, 1008-1017. 87 2.1 Polyacrylonitrile-derived polyconjugated ladder structures for high performance all-organic 88 39 4.1 dielectric materials. Chemical Communications, 2015, 51, 10127-10130. Influence of spacer group on the structure and thermal properties of copolymers based on acrylonitrile and methacrylic 1,3-thiazole and 1,2,3-triazole derivatives. European Polymer Journal, 89 2015, 71, 401-411. Copolymers of acrylonitrile with quaternizable thiazole and triazole side-chain methacrylates as 90 8.3 22 potent antimicrobial and hemocompatible systems. Acta Biomaterialia, 2015, 25, 86-96. Self-standing, binder-free electrospun Co3O4/carbon nanofiber composites for non-aqueous Li-air batteries. Electrochimica Acta, 2015, 182, 289-296.

#	Article	IF	CITATIONS
92	Parameters affecting carbon nanofiber electrodes for measurement of cathodic current in electrochemical sensors: an investigation using artificial neural network. RSC Advances, 2015, 5, 81243-81252.	3.6	37
93	Electrospun Ultrafine Fiber Composites Containing Fumed Silica: From Solution Rheology to Materials with Tunable Wetting. Langmuir, 2015, 31, 12455-12463.	3.5	25
94	Sandwich structured polyamide-6/polyacrylonitrile nanonets/bead-on-string composite membrane for effective air filtration. Separation and Purification Technology, 2015, 152, 14-22.	7.9	144
95	A new fabrication of AgX (X = Br, I)–TiO <sub>2</sub> nanoparticles immobilized on polyacrylonitrile (PAN) nanofibers with high photocatalytic activity and renewable property. RSC Advances, 2015, 5, 91457-91465.	3.6	27
96	Novelly developed three-dimensional carbon scaffold anodes from polyacrylonitrile for microbial fuel cells. Journal of Materials Chemistry A, 2015, 3, 5110-5118.	10.3	63
97	A Facile Preparation of Flexible Alumina/Carbon Composite Nanofibers Film. Journal of Nano Research, 0, 35, 115-127.	0.8	5
98	Highly Efficient Phosphate Scavenger Based on Well-Dispersed La(OH) <sub>3</sub> Nanorods in Polyacrylonitrile Nanofibers for Nutrient-Starvation Antibacteria. ACS Nano, 2015, 9, 9292-9302.	14.6	177
99	Effect of Microstructure and Morphology of Electrospun Ultra-Small Carbon Nanofibers on Anode Performances for Lithium Ion Batteries. Journal of the Electrochemical Society, 2015, 162, A1085-A1093.	2.9	36
100	Fe-aminoclay-entrapping electrospun polyacrylonitrile nanofibers (FeAC-PAN NFs) for environmental engineering applications. Korean Journal of Chemical Engineering, 2015, 32, 1727-1732.	2.7	4
101	Shear and extensional rheological characterization of poly(acrylonitrile)/halloysite nanocomposite solutions. European Polymer Journal, 2015, 73, 17-25.	5.4	12
102	Performance of electrodes synthesized with polyacrylonitrile-based carbon nanofibers for application in electrochemical sensors and biosensors. Materials Science and Engineering C, 2015, 48, 673-678.	7.3	60
103	Preparation, characterization, and kinetic study of end opened carbon nanotubes incorporated polyacrylonitrile electrospun nanofibers for the adsorption of pyrene from aqueous solution. Chemical Engineering Journal, 2015, 259, 348-356.	12.7	37
104	Bioabsorbable engineered nanobiomaterials for antibacterial therapy. , 2016, , 77-117.		12
105	Synthesis and characterization of poly (acrylonitrileâ€coâ€acrylic acid) as precursor of carbon nanofibers. Polymers for Advanced Technologies, 2016, 27, 1383-1388.	3.2	28
106	Rheological behavior of poly(acrylonitrile) concentrated solutions: effect of Sb2O3 nanoparticles on shear and extensional flow. Colloid and Polymer Science, 2016, 294, 1463-1473.	2.1	9
107	Carbonized electrospun polyacrylonitrile nanofibers as highly sensitive sensors in structural health monitoring of composite structures. Journal of Applied Polymer Science, 2016, 133, .	2.6	16
108	PAN fibers with nanoprecipitated Ag and Au for use in textronics. Materials Science-Poland, 2016, 34, 564-570.	1.0	5
109	Optical and dielectrical properties of 2-hydroxy-1-naphthylideneaniline and its derivatives. Physica B: Condensed Matter, 2016, 495, 130-137.	2.7	5

#	Article	IF	CITATIONS
110	Optimization of electrospinning parameters for polyacrylonitrile-MgO nanofibers applied in air filtration. Journal of the Air and Waste Management Association, 2016, 66, 912-921.	1.9	63
111	Comparative study of the structure and microstructure of PAN-based nano- and micro-carbon fibers. Ceramics International, 2016, 42, 11603-11610.	4.8	40
112	Self-reduced VO/VO x /carbon nanofiber composite as binder-free electrode for supercapacitors. Electrochimica Acta, 2016, 209, 709-718.	5.2	33
113	TiO2-induced photo-cross-linked electrospun polyvinyl alcohol nanofibers microfiltration membranes. Polymer, 2016, 99, 642-653.	3.8	25
114	Spinning of polyacrylamidoximes by solution blowing technique: Synthesis and characterization. Fibers and Polymers, 2016, 17, 1456-1463.	2.1	1
115	Production of PEG grafted PAN copolymers and their electrospun nanowebs as novel thermal energy storage materials. Thermochimica Acta, 2016, 643, 83-93.	2.7	38
117	Electrospun nanofiber-supported carbon aerogel as a versatile platform toward asymmetric supercapacitors. Journal of Materials Chemistry A, 2016, 4, 15861-15869.	10.3	69
118	Facile fabrication of cross-linked carbon nanofiber via directly carbonizing electrospun polyacrylonitrile nanofiber as high performance scaffold for supercapacitors. Electrochimica Acta, 2016, 215, 29-35.	5.2	46
119	Functionalized polyacrylonitrileâ€nanofiber based immunosensor for <i>Vibrio cholerae</i> detection. Journal of Applied Polymer Science, 2016, 133, .	2.6	16
120	Silica decorated on porous activated carbon nanofiber composites for high-performance supercapacitors. Journal of Power Sources, 2016, 328, 219-227.	7.8	37
121	A novel nanofiber microfiltration membrane: Fabrication and characterization of tubular electrospun nanofiber (TuEN) membrane. Journal of Membrane Science, 2016, 520, 616-629.	8.2	59
122	Tailoring the surface of polymeric nanofibres generated by pressurised gyration. Surface Innovations, 2016, 4, 167-178.	2.3	14
123	Carbon nanofiber matrix with embedded LaCO <sub>3</sub> OH synchronously captures phosphate and organic carbon to starve bacteria. Journal of Materials Chemistry A, 2016, 4, 12799-12806.	10.3	36
124	Electrospun polyimide nanofibers and their applications. Progress in Polymer Science, 2016, 61, 67-103.	24.7	332
125	Electrospun membrane composed of poly[acrylonitrile-co-(methyl acrylate)-co-(itaconic acid)] terpolymer and ZVI nanoparticles and its application for the removal of arsenic from water. RSC Advances, 2016, 6, 110288-110300.	3.6	20
126	Activated Carbon Nanoadsorbents. , 2016, , 203-218.		2
127	Comprehensive stabilization mechanism of electron-beam irradiated polyacrylonitrile fibers to shorten the conventional thermal treatment. Scientific Reports, 2016, 6, 27330.	3.3	48
128	Synthesis, analysis and simulation of carbonized electrospun nanofibers infused carbon prepreg composites for improved mechanical and thermal properties. Fibers and Polymers, 2016, 17, 1449-1455.	2.1	20

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129	Electrospun functionalized polyacrylonitrile–chitosan Bi-layer membranes for water filtration applications. RSC Advances, 2016, 6, 53882-53893.	3.6	68
130	A facile method to fabricate carbon nanostructures via the self-assembly of polyacrylonitrile/poly(methyl methacrylate-b-polyacrylonitrile) AB/B′ type block copolymer/homopolymer blends. RSC Advances, 2016, 6, 55792-55799.	3.6	11
131	In Situ Enhancement of Flow-through Porous Electrodes with Carbon Nanotubes via Flowing Deposition. Electrochimica Acta, 2016, 206, 36-44.	5.2	21
132	Electrospun nanofibrous composite membranes of chitosan/polyvinyl alcohol-polyacrylonitrile: preparation, characterization, and performance. Desalination and Water Treatment, 2016, 57, 1959-1966.	1.0	7
133	Experimental design as a tool for the manufacturing of filtering media based on electrospun polyacrylonitrile/ \$\$upbeta \$\$ β -cyclodextrin fibers. International Journal on Interactive Design and Manufacturing, 2016, 10, 153-164.	2.2	6
134	Synergistic effect of polyaniline, nanosilver, and carbon nanotube mixtures on the structure and properties of polyacrylonitrile composite nanofiber. Journal of Composite Materials, 2016, 50, 2073-2086.	2.4	50
135	The comparative study of aerosol filtration by electrospun polyamide, polyvinyl acetate, polyacrylonitrile and cellulose acetate nanofiber media. Journal of Aerosol Science, 2016, 92, 27-37.	3.8	165
136	Electrospun carbon nanofibers and their hybrid composites as advanced materials for energy conversion and storage. Nano Energy, 2016, 22, 361-395.	16.0	248
137	Modification of electrospun polyacrylonitrile nanofibers with EDTA for the removal of Cd and Cr ions from water effluents. Applied Surface Science, 2016, 369, 19-28.	6.1	109
138	Nanostructured nitrogen-doped mesoporous carbon derived from polyacrylonitrile for advanced lithium sulfur batteries. Applied Surface Science, 2016, 380, 151-158.	6.1	45
139	Graphene-like membrane supported MnO2 nanospheres for supercapacitor. Journal of Materials Science: Materials in Electronics, 2016, 27, 5121-5127.	2.2	8
140	Palladium immobilized on aminated polyacrylonitrile nanofiber as an efficient heterogeneous catalyst for Heck reaction. Fibers and Polymers, 2016, 17, 194-198.	2.1	11
141	Functionalization of polyacrylonitrile nanofibers with $\hat{l}^2$ -cyclodextrin for the capture of formaldehyde. Materials and Design, 2016, 95, 632-640.	7.0	39
142	Preparation of heat-treated PAN/SiO2 hybrid hollow fiber membrane contactor for acetylene absorption. Separation and Purification Technology, 2016, 159, 116-123.	7.9	13
143	Polyacrylonitrile-Based Materials: Properties, Methods and Applications. Springer Proceedings in Physics, 2016, , 61-77.	0.2	7
144	Improving interfacial adhesion with epoxy matrix using hybridized carbon nanofibers containing calcium phosphate nanoparticles for bone repairing. Materials Science and Engineering C, 2016, 61, 174-179.	7.3	16
145	Crosslinking and carbonization processes in PAN films and nanofibers. Polymer Degradation and Stability, 2016, 123, 178-188.	5.8	73
146	Morphology-controlled carbonaceous and graphitic materials prepared from conjugated polymers as precursors through solid-state carbonization. Synthetic Metals, 2016, 216, 103-112.	3.9	11

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147	The Differentiation of Human Endometrial Stem Cells into Neuron-Like Cells on Electrospun PAN-Derived Carbon Nanofibers with Random and Aligned Topographies. Molecular Neurobiology, 2016, 53, 4798-4808.	4.0	52
148	Effect of aluminum doped iron oxide nanoparticles on magnetic properties of the polyacrylonitrile nanofibers. Journal of Polymer Engineering, 2017, 37, 135-141.	1.4	2
149	Synthesis of porous carbon nanofiber with bamboo-like carbon nanofiber branches by one-step carbonization process. Applied Surface Science, 2017, 402, 456-462.	6.1	16
150	Synthesis and photocatalytic application of TiO 2 nanoparticles immobilized on polyacrylonitrile nanofibers using EDTA chelatingÂagents. Materials Chemistry and Physics, 2017, 192, 108-124.	4.0	27
151	Fully conjugated ladder polymers. Chemical Science, 2017, 8, 2503-2521.	7.4	184
152	The electrochemical enhancement due to the aligned structural effect of carbon nanofibers in a supercapacitor electrode. Synthetic Metals, 2017, 226, 195-206.	3.9	4
153	Preparation and characterization of carbon nanofibrous/hydroxyapatite sheets for bone tissue engineering. Materials Science and Engineering C, 2017, 76, 1188-1195.	7.3	30
154	A low filtration resistance three-dimensional composite membrane fabricated via free surface electrospinning for effective PM <sub>2.5</sub> capture. Environmental Science: Nano, 2017, 4, 864-875.	4.3	131
155	Electrospun Nanofibrous Membranes for Water Purification. Polymer Reviews, 2017, 57, 467-504.	10.9	137
156	Fabrication of PAN-TCF-hydrazone nanofibers by solution blowing spinning technique: Naked-eye colorimetric sensor. Journal of Environmental Chemical Engineering, 2017, 5, 2515-2523.	6.7	44
157	Vacuum-assisted bilayer PEDOT:PSS/cellulose nanofiber composite film for self-standing, flexible, conductive electrodes. Carbohydrate Polymers, 2017, 173, 383-391.	10.2	49
158	Effect of alkaline hydrolysis on cyclization reaction of PAN nanofibers. Materials and Design, 2017, 124, 69-77.	7.0	98
159	Polyacrylonitrile/magnesium oxide-based activated carbon nanofibers with well-developed microporous structure and their adsorption performance for methane. Journal of Industrial and Engineering Chemistry, 2017, 51, 281-287.	5.8	41
160	A fineâ€ŧuned composition of protein nanofibrils yields an upgraded functionality of displayed antibody binding domains. Biotechnology Journal, 2017, 12, 1600672.	3.5	8
161	The preparation and properties of the flexible titanium oxide/carbon nanofibers film. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	4
162	Electrospinning Polyvinyl alcohol/silica-based nanofiber as highly efficient adsorbent for simultaneous and sequential removal of Bisphenol A and Cu(II) from water. Chemical Engineering Journal, 2017, 314, 714-726.	12.7	48
163	Highly anisotropic electric conductivity in PAN-based carbon nanofibers. Journal of Physics Condensed Matter, 2017, 29, 494002.	1.8	11
164	Recent advances in nanomaterials for water protection and monitoring. Chemical Society Reviews, 2017, 46, 6946-7020.	38.1	441

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165	Salt-templated porous carbon–carbon composite electrodes for application in vanadium redox flow batteries. Journal of Materials Chemistry A, 2017, 5, 25193-25199.	10.3	17
166	Emerging investigator series: development and application of polymeric electrospun nanofiber mats as equilibrium-passive sampler media for organic compounds. Environmental Sciences: Processes and Impacts, 2017, 19, 1445-1456.	3.5	12
167	Three-dimensional and ultralight sponges with tunable conductivity assembled from electrospun nanofibers for a highly sensitive tactile pressure sensor. Journal of Materials Chemistry C, 2017, 5, 10288-10294.	5.5	74
168	A statistical approach to evaluate the oxidative process of electrospun polyacrylonitrile ultrathin fibers. Journal of Applied Polymer Science, 2017, 134, 45458.	2.6	14
169	Fabrication of polyacrylonitrile-coated kapok hollow microtubes for adsorption of methyl orange and Cu(II) ions in aqueous solution. Journal of the Taiwan Institute of Chemical Engineers, 2017, 78, 359-369.	5.3	45
170	Electrospun Nanomaterials for Supercapacitor Electrodes: Designed Architectures and Electrochemical Performance. Advanced Energy Materials, 2017, 7, 1601301.	19.5	334
171	One-dimensional polymer nanofiber arrays with high aspect ratio obtained by thermal nanoimprint method. Polymer Engineering and Science, 2017, 57, 214-223.	3.1	19
172	Continuous lithium mining from aqueous resources by an adsorbent filter with a 3D polymeric nanofiber network infused with ion sieves. Chemical Engineering Journal, 2017, 309, 49-62.	12.7	62
173	Preparation and Characterization of Highly Aligned Carbon Nanotubes/Polyacrylonitrile Composite Nanofibers. Polymers, 2017, 9, 1.	4.5	428
174	Study of functional properties of gas-sensitive cobalt-containing polyacrylonitrile films. Journal of Physics: Conference Series, 2017, 929, 012050.	0.4	0
175	Study on the oxidative stabilization of polyacrylonitrile fibers by microwave heating. Polymer Degradation and Stability, 2018, 150, 86-91.	5.8	51
176	Development of heat storing poly(acrylonitrile) nanofibers by coaxial electrospinning. Thermochimica Acta, 2018, 662, 135-148.	2.7	26
177	Fabrication and characterization of electrospun cellulose/polyacrylonitrile nanofibers with Cu(II) ions. Cellulose, 2018, 25, 2955-2963.	4.9	16
178	Boosting Fast Sodium Storage of a Large calable Carbon Anode with an Ultralong Cycle Life. Advanced Energy Materials, 2018, 8, 1703159.	19.5	119
179	High speed water purification and efficient phosphate rejection by active nanofibrous membrane for microbial contamination and regrowth control. Chemical Engineering Journal, 2018, 337, 428-435.	12.7	36
180	Advances in carbon nanostructure–silica aerogel composites: a review. Journal of Materials Chemistry A, 2018, 6, 1340-1369.	10.3	149
181	Reduced graphene oxide-silver nanoparticles/nitrogen-doped carbon nanofiber composites with meso-microporous structure for high-performance symmetric supercapacitor application. Journal of Alloys and Compounds, 2018, 742, 769-779.	5.5	43
182	Electrospinning: a carbonized gold/graphene/PAN nanofiber for high performance biosensing. Analytical Methods, 2018, 10, 874-883.	2.7	17

щ		IF	CITATIONS
#	AKTICLE	IF	CHATIONS
183	Nonvolatile Rewritable Memory Device. Advanced Electronic Materials, 2018, 4, 1700397.	5.1	25
184	Negative electrode materials of molybdenum nitride/N-doped carbon nano-fiber via electrospinning method for high-performance supercapacitors. Electrochimica Acta, 2018, 277, 41-49.	5.2	60
185	High-performance inertial impaction filters for particulate matter removal. Scientific Reports, 2018, 8, 4757.	3.3	36
186	The effect of electrical stimulation on cortical cells in 3D nanofibrous scaffolds. RSC Advances, 2018, 8, 11027-11035.	3.6	22
187	The preparation of carboxylic-functional carbon-based nanofibers for the removal of cationic pollutants. Chemosphere, 2018, 202, 298-305.	8.2	35
188	Fabrication of Conductive Macroporous Structures Through Nano-phase Separation Method. Electronic Materials Letters, 2018, 14, 83-88.	2.2	1
189	Synthesis, optimization, and characterization of poly (Styrene oâ€Acrylonitrile) copolymer prepared via precipitation polymerization. Advances in Polymer Technology, 2018, 37, 2021-2029.	1.7	23
190	Electrospun PAN–GO composite nanofibers as water purification membranes. Journal of Applied Polymer Science, 2018, 135, 45858.	2.6	62
191	Studies of reaction mechanisms during stabilization of electrospun polyacrylonitrile carbon nanofibers. Polymer Engineering and Science, 2018, 58, 1315-1321.	3.1	19
192	Electrospun soyâ€proteinâ€based nanofibrous membranes for effective antimicrobial air filtration. Journal of Applied Polymer Science, 2018, 135, 45766.	2.6	60
193	Carbon nanofibers prepared by electrospinning accompanied with phase-separation method for supercapacitors: Effect of thermal treatment temperature. Journal of Materials Research, 2018, 33, 1120-1130.	2.6	22
194	Photocatalytic activity of ZnO nanoparticle encapsulated poly(acrylonitrile) nanofibers. Materials Chemistry and Physics, 2018, 204, 195-206.	4.0	38
195	Modified polyacrylonitrile fiber as a renewable heterogeneous base catalyst for Henry reaction and Gewald reaction in water. Journal of Applied Polymer Science, 2018, 135, 45992.	2.6	8
196	Influence of humidity, temperature, and annealing on microstructure and tensile properties of electrospun polyacrylonitrile nanofibers. Polymer Engineering and Science, 2018, 58, 998-1009.	3.1	29
197	Electrospun nanofibers, nanocomposites and characterization of art: Insight on establishing fibers as product. Nano Structures Nano Objects, 2018, 16, 45-58.	3.5	58
198	Constrained-volume assembly of organometal confined in polymer to fabricate multi-heteroatom doped carbon for oxygen reduction reaction. Science China Materials, 2018, 61, 1305-1313.	6.3	9
199	Electrospun carbon nanofibers/TiO2-PAN hybrid membranes for effective removal of metal ions and cationic dye. Environmental Nanotechnology, Monitoring and Management, 2018, 10, 366-376.	2.9	30
200	Preparation of TiO2 incorporated polyacrylonitrile electrospun nanofibers for adsorption of heavy metal ions. Journal of Polymer Research, 2018, 25, 1.	2.4	30

#	Article	IF	CITATIONS
201	Coupling effect of PVDF molar mass and carboxyl content in CNTs on microstructure and thermal properties of CNT/PVDF composites. Materials Research Express, 2018, 5, 065031.	1.6	3
202	Detailed Cyclization Pathways Identification of Polyacrylonitrile and Poly(acrylonitrile- <i>co</i> -itaconic acid) by in Situ FTIR and Two-Dimensional Correlation analysis. Industrial & Engineering Chemistry Research, 2018, 57, 8348-8359.	3.7	27
203	Current Advances on Nanofiber Membranes for Water Purification Applications. , 2018, , 25-46.		10
204	Electrospinning synthesis of high performance carbon nanofiber coated flower-like MoS2 nanosheets for dye-sensitized solar cells counter electrode. Electrochimica Acta, 2018, 280, 94-100.	5.2	44
205	Facile preparation of nitrogen-enriched hierarchical porous carbon nanofibers by Mg(OAc)2-assisted electrospinning for flexible supercapacitors. Applied Surface Science, 2018, 456, 827-834.	6.1	29
206	Highly Tunable and Facile Synthesis of Uniform Carbon Flower Particles. Journal of the American Chemical Society, 2018, 140, 10297-10304.	13.7	86
207	Pharmapolymers in the 21st century: Synthetic polymers in drug delivery applications. Progress in Polymer Science, 2018, 87, 107-164.	24.7	177
208	Electrospun nanofiber substrates that enhance polar solvent separation from organic compounds in thin-film composites. Journal of Materials Chemistry A, 2018, 6, 15047-15056.	10.3	125
209	Influence of boron content on the structure and capacitive properties of electrospun polyacrylonitrile/pitch-based carbon nanofiber composites. Synthetic Metals, 2018, 242, 1-7.	3.9	11
210	Comparison of microwave and conventional heating methods for oxidative stabilization of polyacrylonitrile fibers at different holding time and heating rate. Ceramics International, 2018, 44, 14377-14385.	4.8	35
211	Influence of Technological Modes on the Electrophysical Properties of Films of Polyacrylonitrile Doped with Metal Particles. Russian Microelectronics, 2018, 47, 112-117.	0.5	1
212	Activated carbon monoliths derived from bacterial cellulose/polyacrylonitrile composite as new generation electrode materials in EDLC. Carbohydrate Polymers, 2018, 200, 381-390.	10.2	31
213	Supercapacitor with superior electrochemical properties derived from symmetrical manganese oxide-carbon fiber coated with polypyrrole. International Journal of Hydrogen Energy, 2018, 43, 17328-17337.	7.1	42
214	Plasma deposited thin-film sandwich-like bifunctional electrocatalyst for oxygen reduction and evolution reactions. Thin Solid Films, 2018, 660, 161-165.	1.8	9
215	Electrospun one-dimensional graphitic carbon nitride-coated carbon hybrid nanofibers (GCN/CNFs) for photoelectrochemical applications. Current Applied Physics, 2018, 18, 1006-1012.	2.4	13
216	Preparation, characterization and performance of an electrospun carbon nanofiber mat applied in hexavalent chromium removal from aqueous solution. Journal of Environmental Sciences, 2019, 77, 75-84.	6.1	33
217	Polymeric and metal oxide structured nanofibrous composites fabricated by electrospinning as highly efficient hydrogen evolution catalyst. Journal of Colloid and Interface Science, 2019, 533, 82-94.	9.4	22
218	Fabrication and characterisation of novel nanofiltration polymeric membrane. Materials Today Communications, 2019, 20, 100580.	1.9	11

#	Article	IF	CITATIONS
219	Electrospun poly(acrylonitrile- <i>co</i> -itaconic acid) as a porous carbon precursor for high performance supercapacitor: study of the porosity induced by <i>in situ</i> porogen activity of itaconic acid. Nanotechnology, 2019, 30, 435401.	2.6	12
220	Study of electrospun polyacrylonitrile fibers with porous and ultrafine nanofibril structures: Effect of stabilization treatment on the resulting carbonized structure. Journal of Applied Polymer Science, 2019, 136, 48218.	2.6	8
221	Fabrication of macroporous carbon monoliths with controllable structure via supercritical CO2 foaming of polyacrylonitrile. Journal of CO2 Utilization, 2019, 33, 330-340.	6.8	14
222	A Large Scalable and Low ost Sulfur/Nitrogen Dualâ€Doped Hard Carbon as the Negative Electrode Material for Highâ€Performance Potassiumâ€Ion Batteries. Advanced Energy Materials, 2019, 9, 1901379.	19.5	195
223	Frequency-Dependent Effective Capacitance of Supercapacitors Using Electrospun Cobalt-Carbon Composite Nanofibers. Journal of the Electrochemical Society, 2019, 166, A2403-A2408.	2.9	6
224	Electrospun nanofiber filters for highly efficient PM2.5 capture. Korean Journal of Chemical Engineering, 2019, 36, 1565-1574.	2.7	27
226	Tailoring structural, morphological and mechanical characteristics of mono-crystalline diamond-reinforced polyacrylonitrile based electrospun fibers. Iranian Polymer Journal (English) Tj ETQq0 0 0 rgBT	/@. <i>w</i> erlock	2 110 Tf 50 49
227	Safety regulation of gel electrolytes in electrochemical energy storage devices. Science China Materials, 2019, 62, 1556-1573.	6.3	28
228	Experimental composites of polyacrilonitrile-electrospun nanofibers containing nanocrystal cellulose. Dental Materials, 2019, 35, e286-e297.	3.5	11
229	Pore engineering of nanoporous carbon nanofibers toward enhanced supercapacitor performance. Applied Surface Science, 2019, 497, 143693.	6.1	33
230	Improve in CO2 and CH4 Adsorption Capacity on Carbon Microfibers Synthesized by Electrospinning of PAN. Fibers, 2019, 7, 81.	4.0	16
231	Specific structure, morphology, and properties of polyacrylonitrile (PAN) membranes prepared by needleless electrospinning; Forming hollow fibers. Materials Science and Engineering C, 2019, 105, 110151.	7.3	29
232	Polyacrylonitrile nanocomposite with carbon nanostructures: a review. Polymer-Plastics Technology and Materials, 2019, 58, 707-731.	1.3	5
233	Synergistic effect of comonomers on the thermal oxidative stabilization of polyacrylonitrile copolymers for carbon materials. Polymer Degradation and Stability, 2019, 161, 191-197.	5.8	16
234	Stabilizing Pt Nanocrystals Encapsulated in N-Doped Carbon as Double-Active Sites for Catalyzing Oxygen Reduction Reaction. Langmuir, 2019, 35, 2580-2586.	3.5	47
235	Improving Supercapacitance of Electrospun Carbon Nanofibers through Increasing Micropores and Microporous Surface Area. Advanced Materials Interfaces, 2019, 6, 1801900.	3.7	16
236	Addition of carbon nanotubes to electrospun polyacrylonitrile as a way to obtain carbon nanofibers with desired properties. Polymer Degradation and Stability, 2019, 161, 260-276.	5.8	20
237	Electrospun MXene/carbon nanofibers as supercapacitor electrodes. Journal of Materials Chemistry A, 2019, 7, 269-277.	10.3	464

#	Article	IF	CITATIONS
238	Structure and Biological Properties of Surface-Engineered Carbon Nanofibers. Journal of Nanomaterials, 2019, 2019, 1-14.	2.7	9
239	Modified hydrous zirconium oxide/PAN nanofibers for efficient defluoridation from groundwater. Science of the Total Environment, 2019, 685, 401-409.	8.0	49
240	Binder free carbon nanofiber electrodes derived from polyacrylonitrile-lignin blends for high performance supercapacitors. Nanotechnology, 2019, 30, 355402.	2.6	51
241	Development of Carbon Nanofibers From Electrospinning. , 2019, , 867-878.		3
242	Free volumes introduced by fractures of CFRP probed using positron annihilation. Composites Part A: Applied Science and Manufacturing, 2019, 122, 54-58.	7.6	10
243	Carbon nanomaterials for implant dentistry and bone tissue engineering. , 2019, , 429-468.		5
244	Hydrogen production from sodium borohydride originated compounds: Fabrication of electrospun nano-crystalline Co3O4 catalyst and its activity. International Journal of Hydrogen Energy, 2019, 44, 9883-9895.	7.1	20
245	Synthesis of special acrylic nanofibers as an appropriate precursor for conductive carbon nanofibers. Journal of Materials Science: Materials in Electronics, 2019, 30, 7005-7017.	2.2	5
246	A stable polypyridinopyridine–red phosphorus composite as a superior anode material for long-cycle lifetime lithium-ion batteries. New Journal of Chemistry, 2019, 43, 6197-6204.	2.8	8
247	Polyacrylonitrile-based nanocomposite fibers: A review of current developments. Journal of Plastic Film and Sheeting, 2019, 35, 295-316.	2.2	38
248	Enhancing oxygen reduction reaction of supercapacitor microbial fuel cells with electrospun carbon nanofibers composite cathode. Chemical Engineering Journal, 2019, 371, 544-553.	12.7	65
249	Enhancement of C-phycocyanin purity using negative chromatography with chitosan-modified nanofiber membrane. International Journal of Biological Macromolecules, 2019, 132, 615-628.	7.5	17
250	Recent Advances in Bio-Based Flame Retardant Additives for Synthetic Polymeric Materials. Polymers, 2019, 11, 224.	4.5	117
251	Simultaneous cross-linking and pore-forming electrospun carbon nanofibers towards high capacitive performance. Applied Surface Science, 2019, 479, 128-136.	6.1	50
252	Degradation of methyl orange on Fe/Ag nanoparticles immobilized on polyacrylonitrile nanofibers using EDTA chelating agents. Journal of Environmental Management, 2019, 236, 481-489.	7.8	19
253	Electrospun polyacrylonitrile–lauric acid composite nanofiber webs as a thermal energy storage material. Journal of Engineered Fibers and Fabrics, 2019, 14, 155892501882489.	1.0	4
254	Urea-assisted template-less synthesis of heavily nitrogen-doped hollow carbon fibers for the anode material of lithium-ion batteries. New Journal of Chemistry, 2019, 43, 3821-3828.	2.8	11
255	Synthesis of amidoximated polyacrylonitrile fibers and its use as adsorbent for Cr (VI) ions removal from aqueous solutions. Environmental Progress and Sustainable Energy, 2019, 38, 13196.	2.3	8

		CITATION R	EPORT	
#	Article		IF	CITATIONS
256	Rapid adsorption of lead ions using porous carbon nanofibers. Chemosphere, 2019, 22	5, 360-367.	8.2	75
257	Superhydrophobic SiO2 micro/nanofibrous membranes with porous surface prepared b electrospinning for oil adsorption. Colloids and Surfaces A: Physicochemical and Engine Aspects, 2019, 568, 356-361.	y freeze ering	4.7	45
258	A novel double-layered polymeric nanofiber-based dressing with controlled drug deliver management in burn wounds. Polymer Bulletin, 2019, 76, 6387-6411.	y for pain	3.3	35
259	Electrical conductivity of silver nanoparticle doped carbon nanofibres measured by CS-/ Advances, 2019, 9, 4553-4562.	AFM. RSC	3.6	18
260	The Origins of the High Performance of Pd Catalysts Supported on Carbon Black-Ember Nanofiber for Formic Acid Oxidation. Applied Sciences (Switzerland), 2019, 9, 5542.	lded Carbon	2.5	2
261	Advances in Carbon Fiber Reinforced Polyamide-Based Composite Materials. Advances Science, 2019, 19, 67-82.	n Materials	1.0	35
262	Large-scale preparation of micro-gradient structured sub-micro fibrous membranes with diameter distributions for high-efficiency air purification. Environmental Science: Nano, 3560-3578.	1 narrow 2019, 6,	4.3	31
264	Effect of Pyrolysis Temperature on the Electrical Property and Photosensitivity of a PAN Derived Carbon Fiber. ChemEngineering, 2019, 3, 86.	-PMMA	2.4	5
265	Membrane-based separation of potential emerging pollutants. Separation and Purificat 2019, 210, 850-866.	ion Technology,	7.9	277
266	Cellulose/polyacrylonitrile electrospun composite fiber for effective separation of the surfactant-free oil-in-water mixture under a versatile condition. Separation and Purificat Technology, 2019, 210, 913-919.	ion	7.9	53
267	Callium Oxide Nanofibers for Hydrogen Evolution and Oxygen Reduction. ACS Applied 2019, 2, 64-74.	Nano Materials,	5.0	24
268	MnCo2O4@nitrogen-doped carbon nanofiber composites with meso-microporous stru high-performance symmetric supercapacitors. Journal of Alloys and Compounds, 2019,	cture for 782, 251-262.	5.5	68
269	Iron oxide and phosphide encapsulated within N,P-doped microporous carbon nanofibe tri-functional electrocatalyst toward oxygen reduction/evolution and hydrogen evolutic and zinc-air batteries. Journal of Power Sources, 2019, 413, 367-375.	rs as advanced on reactions	7.8	118
270	Synthesis, Characterization, and Applications Carbon Nanofibers. , 2019, , 243-257.			21
271	Enhancement of heavy metal ion adsorption using electrospun polyacrylonitrile nanofib with ZnO nanoparticles. Journal of Applied Polymer Science, 2019, 136, 47209.	vers loaded	2.6	45
272	Synthesis of Silver Nanoparticles Embedded Electrospun PAN Nanofiber Thin-Film Comp Osmosis Membrane to Enhance Performance and Antimicrobial Activity. Industrial &am Chemistry Research, 2019, 58, 984-993.	posite Forward p; Engineering	3.7	67
273	Conjugate Electrospinning Construction of Microyarns with Synchronous Color-Tuned Photoluminescence and Tunable Electrical Conductivity. Journal of Electronic Materials, 1511-1521.	2019, 48,	2.2	3
274	Piezoelectric electrospun polyacrylonitrile with various tacticities. Journal of Applied Po Science, 2019, 136, 47530.	lymer	2.6	14

#	Article	IF	CITATIONS
275	Nanocrystalline cellulose as a reinforcing agent for electrospun polyacrylonitrile (PAN) nanofibers. Journal of Oral Biosciences, 2019, 61, 37-42.	2.2	5
276	Simultaneous intercalated assembly of mesostructured hybrid carbon nanofiber/reduced graphene oxide and its use in electrochemical sensing. Nanotechnology, 2019, 30, 025601.	2.6	6
277	A novel controlled release system based on Tragacanth nanofibers loaded Peppermint oil. Carbohydrate Polymers, 2019, 205, 589-595.	10.2	27
278	Effects of Sodium Alginate on the Composition, Morphology, and Electrochemical Properties of Electrospun Carbon Nanofibers as Electrodes for Supercapacitors. ACS Sustainable Chemistry and Engineering, 2019, 7, 632-640.	6.7	30
279	Investigation of the Co/polyacrylonitrile nanocomposite electronic structure: X-ray spectroscopy analysis. Radiation Physics and Chemistry, 2020, 175, 108256.	2.8	3
280	Review of the use of transition-metal-oxide and conducting polymer-based fibres for high-performance supercapacitors. Materials and Design, 2020, 186, 108199.	7.0	424
281	Hierarchical porous carbon pellicles: Electrospinning synthesis and applications as anodes for sodium-ion batteries with an outstanding performance. Carbon, 2020, 157, 308-315.	10.3	32
282	Core–sheath nanofibrous membranes based on poly(acrylonitrileâ€butadieneâ€styrene), polyacrylonitrile, and zinc oxide nanoparticles for photoreduction of Cr(VI) ions in aqueous solutions. Journal of Applied Polymer Science, 2020, 137, 48429.	2.6	6
283	Tannic acid-assisted green exfoliation and functionalization of MoS2 nanosheets: Significantly improve the mechanical and flame-retardant properties of polyacrylonitrile composite fibers. Chemical Engineering Journal, 2020, 384, 123288.	12.7	98
284	Microporous Carbon Nanofibers Derived from Poly(acrylonitrileâ€ <i>co</i> â€acrylic acid) for Highâ€Performance Supercapacitors. Chemistry - A European Journal, 2020, 26, 3326-3334.	3.3	28
285	Fabrication of porous fibers via electrospinning: strategies and applications. Polymer Reviews, 2020, 60, 595-647.	10.9	77
286	Structure and electrochemical properties of highly conductive and porous carbon nanofiber derived from inclusion complex of cyclodextrin-phenylsilane. Journal of Electroanalytical Chemistry, 2020, 858, 113815.	3.8	9
287	Carbonization: A feasible route for reutilization of plastic wastes. Science of the Total Environment, 2020, 710, 136250.	8.0	110
288	Phthalonitrile prepolymer and PAN blends: New strategy for precursor stabilization and pyrolytic char yield enhancement. Polymer Degradation and Stability, 2020, 172, 109056.	5.8	9
289	Predicting cost-effective carbon fiber precursors: Unraveling the functionalities of oxygen and nitrogen-containing groups during carbonization from ReaxFF simulations. Carbon, 2020, 159, 25-36.	10.3	59
290	Photocatalytic zinc oxide on flexible polyacrylonitrile nanofibers via sol–gel coaxial electrospinning. Ceramics International, 2020, 46, 8287-8292.	4.8	10
291	Thermally Treated Graphene Oxide/Polyacrylonitrile Based Electrospun Carbon Nanofiber Precursor. Journal of Nanoscience and Nanotechnology, 2020, 20, 3448-3459.	0.9	10
293	Polyacrylonitrile Nanofiber Membrane Modified with Ag/GO Composite for Water Purification System. Polymers, 2020, 12, 2441.	4.5	22

ARTICLE IF CITATIONS Sustainable N-doped hierarchical porous carbons as efficient CO2 adsorbents and high-performance 294 6.8 84 supercapacitor electrodes. Journal of CO2 Utilization, 2020, 42, 101326. Multi-functional flexible 2D carbon nanostructured networks. Nature Communications, 2020, 11, 5134. 12.8 Discarded clothing acrylic yarns: Low-cost raw materials for deformable c nanofibers applied to 296 5.210 flexible sodium-ion batteries. Electrochimica Acta, 2020, 359, 136988. Anisotropic Characterizations of Electrospun PAN Nanofiber Mats Using Design of Experiments. Nanomaterials, 2020, 10, 2273. Dual crosslinked polyamidoxime/alginate sponge for robust and efficient uranium adsorption from 298 2.8 9 aqueous solution. New Journal of Chemistry, 2020, 44, 19445-19449. Production of polyacrylonitrile nanofibres modified with Cyanex 272 for recovery of gallium from 299 2.2 solution. Environmental Technology (United Kingdom), 2022, 43, 737-750. Combining Electrospinning and Vapor-Phase Polymerization for the Production of Polyacrylonitrile/ 300 Polypyrrole Core-Shell Nanofibers and Glucose Biosensor Application. Frontiers in Chemistry, 2020, 8, 3.6 18 678. Polyacrylonitrile (PAN)/TiO2 mixed matrix membrane synthesis by thermally induced self-crosslinking 301 3.8 for thermal and organic-solvent resistant filtration. Chémical Engineering Science, 2020, 228, 115993. In-situ annealing and characterization of superhydrophobic electrospun poly(acrylonitrile) ionized 302 2 1.7 nanofibre smart material properties. Bulletin of Materials Science, 2020, 43, 1. Assembly of Pt Nanoparticles on Graphitized Carbon Nanofibers as Hierarchically Structured Electrodes. ACS Applied Nano Materials, 2020, 3, 9880-9888. Mixed Dye Removal Efficiency of Electrospun Polyacrylonitrile–Graphene Oxide Composite 304 4.516 Membranes. Polymers, 2020, 12, 2009. Recent Advances of Producing Biobased N-Containing Compounds via Thermo-Chemical Conversion 306 5.1 with Ammonia Process. Energy & amp; Fuels, 2020, 34, 10441-10458. A Comprehensive Review of the Covalent Immobilization of Biomolecules onto Electrospun 307 4.1 103 Nanofibers. Nanomaterials, 2020, 10, 2142. Effect of different itaconic acid contents of poly(acrylonitrile-co-itaconic acid)s on their carbonization behaviors at elevated temperatures. Polymer Degradation and Stability, 2020, 181, 109373. 308 5.8 Investigation of the Cyclization Mechanism of Poly(acrylonitrile-<i>co</i>ethylenesulfonic acid) 309 Copolymer during Thérmal Oxidative Stabilization by <i>In Situ</i> Infrared Spectroscopy. Industrial 3.7 6 & amp; Engineering Chemistry Research, 2020, 59, 9519-9531. Electrospun carbon/iron nanofibers: The catalytic effects of iron and application in Cr(VI) removal. Carbon, 2020, 166, 227-244. Surface-modified electrospun polyacrylonitrile nano-membrane for a lithium-ion battery separator 311 12.7 49 based on phase separation mechanism. Chemical Engineering Journal, 2020, 398, 125646. Key issues facing electrospun carbon nanofibers in energy applications: on-going approaches and 5.6 challenges. Nanoscale, 2020, 12, 13225-13248.

#	Article	IF	CITATIONS
313	A C/V <sub>2</sub> O <sub>5</sub> core-sheath nanofibrous cathode with mixed-ion intercalation for aluminium-ion batteries. Nano Express, 2020, 1, 010016.	2.4	8
314	Review of polyacrylonitrile blends and application in manufacturing technology: recycling and environmental impact. Results in Engineering, 2020, 7, 100144.	5.1	54
315	A review on electrospun polymeric nanofibers: Production parameters and potential applications. Polymer Testing, 2020, 90, 106647.	4.8	183
316	Preparation of nanocomposite activated carbon nanofiber/manganese oxide and its adsorptive performance toward leads (II) from aqueous solution. Journal of Water Process Engineering, 2020, 37, 101430.	5.6	24
317	Thermal stabilization of poly(acrylonitrile-co-itaconic acid) nanofibers as carbon nanofiber precursor. Polymer Degradation and Stability, 2020, 175, 109142.	5.8	6
318	Carbon Nanofibrous Sponge Made from Hydrothermally Generated Biochar and Electrospun Polymer Nanofibers. Advanced Fiber Materials, 2020, 2, 74-84.	16.1	23
319	Influence of monomeric concentration on mechanical and electrical properties of poly(styrene―co) Tj ETQq0 0 C Polymer Science, 2020, 137, 49166.	) rgBT /Ov 2.6	erlock 10 Tf 5
320	Advances in Manufacturing Composite Carbon Nanofiber-Based Aerogels. Journal of Composites Science, 2020, 4, 73.	3.0	10
321	Polyacrylonitrile-based gel polymer electrolytes for dye-sensitized solar cells: a review. Ionics, 2020, 26, 4215-4238.	2.4	34
322	Hydrophobic silica-aerogel integrated polyacrylonitrile nanofibers. Journal of Industrial Textiles, 2022, 51, 4740S-4756S.	2.4	6
323	Multifractal Surface Characteristics of Thin, Gas-Sensitive, Copper-Containing Polyacrylonitrile Films. Surface Engineering and Applied Electrochemistry, 2020, 56, 311-318.	0.8	0
324	Hydrophilic/Hydrophobic Property Changes on Polyacrylonitrile/Cellulose Acetate Nanofiber Membrane. Materials Science Forum, 2020, 990, 215-219.	0.3	2
325	Graphene Nanoplatelet (GNPs) Doped Carbon Nanofiber (CNF) System: Effect of GNPs on the Graphitic Structure of Creep Stress and Non-Creep Stress Stabilized Polyacrylonitrile (PAN). Nanomaterials, 2020, 10, 351.	4.1	10
326	A novel methodology for designing thermal processes in order to optimize stabilization of polyacrylonitrile (PAN) fibers. Polymers for Advanced Technologies, 2020, 31, 1403-1413.	3.2	8
327	Solution-Processable Porous Nanoparticles of a Conjugated Ladder Polymer Network. Macromolecules, 2020, 53, 922-928.	4.8	11
328	Applications of Electrospun Nanofibers with Antioxidant Properties: A Review. Nanomaterials, 2020, 10, 175.	4.1	51
329	Robust light-driven interfacial water evaporator by electrospinning SiO2/MWCNTs-COOH/PAN photothermal fiber membrane. Separation and Purification Technology, 2020, 239, 116595.	7.9	55
330	Green synthesis of porous N-Carbon/Silica nanofibers by solution blow spinning and evaluation of their efficiency in dye adsorption. Journal of Materials Research and Technology, 2020, 9, 3038-3046.	5.8	19

#	Article	IF	CITATIONS
331	The synthesis of silver-nanoparticle-anchored electrospun polyacrylonitrile nanofibers and a comparison with as-spun silver/polyacrylonitrile nanocomposite membranes upon antibacterial activity. Polymer Bulletin, 2020, 77, 4197-4212.	3.3	23
332	Graphene reinforced carbon fibers. Science Advances, 2020, 6, eaaz4191.	10.3	87
333	Electrospun Nanofibrous Membranes: An Effective Arsenal for the Purification of Emulsified Oily Wastewater. Advanced Functional Materials, 2020, 30, 2002192.	14.9	116
334	Solid-Electrolyte Interphases (SEI) in Nonaqueous Aluminum-Ion Batteries. ACS Applied Energy Materials, 2020, 3, 3673-3683.	5.1	17
335	Electrospun Bilayer PAN/Chitosan Nanofiber Membranes Incorporated with Metal Oxide Nanoparticles for Heavy Metal Ion Adsorption. Coatings, 2020, 10, 285.	2.6	35
336	Using iron ion-loaded aminated polyacrylonitrile fiber to efficiently remove wastewater phosphate. Chemical Engineering Journal, 2021, 403, 126349.	12.7	69
337	Micro-meso porous structured carbon nanofibers with ultra-high surface area and large supercapacitor electrode capacitance. Journal of Power Sources, 2021, 482, 228986.	7.8	124
338	Membranes made from nonsolvent-thermally induced phase separation (N-TIPS) for decellularization of blood in dry plasma spot (DPS) applications. Chemical Engineering Science, 2021, 229, 116010.	3.8	9
339	High recovery, pointâ€ofâ€collection plasma separation from blood using electrospun polyacrylonitrile membranes. AICHE Journal, 2021, 67, e17088.	3.6	2
340	Electrospinning and in-situ hierarchical thermal treatment to tailor C–NiCo2O4 nanofibers for tunable microwave absorption. Carbon, 2021, 171, 953-962.	10.3	185
341	Enhanced phosphate removal from wastewater by recyclable fiber supported quaternary ammonium salts: Highlighting the role of surface polarity. Chemical Engineering Journal, 2021, 416, 127889.	12.7	11
342	A metal-free method for ultra-high molecular weight polyacrylonitrile under dimethyl sulfoxide. Polymer, 2021, 214, 123245.	3.8	4
343	Photocatalytic and antifouling properties of electrospun TiO2 polyacrylonitrile composite nanofibers under visible light. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 264, 114913.	3.5	60
344	A Nano-Micro Engineering Nanofiber for Electromagnetic Absorber, Green Shielding and Sensor. Nano-Micro Letters, 2021, 13, 27.	27.0	200
345	Preparation of electrospun polyvinylidene fluoride/amidoximized polyacrylonitrile nanofibers for trace metal ions removal from contaminated water. Journal of Porous Materials, 2021, 28, 383-392.	2.6	15
346	Rational design of electrospun nanofibrous materials for oil/water emulsion separation. Materials Chemistry Frontiers, 2021, 5, 97-128.	5.9	55
347	Recycling Nanofibers from Polyethylene Terephthalate Waste Using Electrospinning Technique. Topics in Mining, Metallurgy and Materials Engineering, 2021, , 805-821.	1.6	25
348	Conjugated cyclized-polyacrylonitrile encapsulated carbon nanotubes as core–sheath heterostructured anodes with favorable lithium storage. Journal of Materials Chemistry A, 2021, 9, 6962-6970.	10.3	21

#	Article	IF	CITATIONS
349	Electrochemical determination of T <sub>2</sub> toxin by graphite/polyacrylonitrile nanofiber electrode. Food Science and Nutrition, 2021, 9, 1171-1179.	3.4	15
350	Computational modeling of carbon nanofibers reinforced composites: A comparative study. Journal of Composite Materials, 2021, 55, 2315-2327.	2.4	0
351	Mechanical and Dielectric Properties of Aligned Electrospun Fibers. Fibers, 2021, 9, 4.	4.0	19
352	Obtenção de nanofios de carbono a partir de copolÃmero de PAN eletrofiados para aplicação como supercapacitores. Revista Materia, 2021, 26, .	0.2	0
353	In Situ Synthesis of Silver Nanoparticles on Amino-Grafted Polyacrylonitrile Fiber and Its Antibacterial Activity. Nanoscale Research Letters, 2021, 16, 36.	5.7	9
354	Characterization of multifunctional <scp>PAN</scp> / <scp>ZnO</scp> nanofibrous composite filter for fine dust capture and photocatalytic activity. Journal of Applied Polymer Science, 2021, 138, 50607.	2.6	8
355	Influence of pre-oxidation on mechanical properties of single electrospun polyacrylonitrile nanofiber. Materials Today Communications, 2021, 26, 102069.	1.9	12
356	Diazo Resin and Acidified Carbon Nanotube Modified Polyacrylonitrile Hollow Fiber Membrane. Integrated Ferroelectrics, 2021, 215, 195-202.	0.7	0
357	Polymer-based TiO <sub>2</sub> nanocomposite membrane: synthesis and organic pollutant removal. International Journal of Smart and Nano Materials, 2021, 12, 129-145.	4.2	16
359	Bottlebrush polymers: From controlled synthesis, self-assembly, properties to applications. Progress in Polymer Science, 2021, 116, 101387.	24.7	138
360	Advances in the design and fabrication of high-performance flow battery electrodes for renewable energy storage. Advances in Applied Energy, 2021, 2, 100016.	13.2	27
361	Silica nanoparticles-incorporated carbon nanofibers as bioactive biomaterial for bone tissue engineering. Diamond and Related Materials, 2021, 115, 108320.	3.9	24
362	Hierarchical Polyacrylonitrile-Derived Nitrogen Self-Doped 3D Carbon Superstructures Enabling Electrochemical Detection of Calcium Channel Blocker Nimodipine in Real Human Blood Serum. ACS Sustainable Chemistry and Engineering, 2021, 9, 6586-6598.	6.7	7
363	Nanofibers from chitosan/polyacrylonitrile/sepiolite nanocomposites. Polymer-Plastics Technology and Materials, 0, , 1-13.	1.3	2
364	Electrospun polyacrylonitrile nanofibers as graphene oxide quantum dot precursors with improved photoluminescent properties. Materials Science in Semiconductor Processing, 2021, 127, 105729.	4.0	9
365	Insights into pyrolysis behavior of polyacrylonitrile precursors using Py-GC/MS. Chemical Papers, 2021, 75, 5297-5311.	2.2	4
366	Global View and Trends in Electrospun Nanofiber Membranes for Particulate Matter Filtration: A Review. Macromolecular Materials and Engineering, 2021, 306, 2100278.	3.6	32
367	Removal of calcium ions from aqueous solution by bovine serum albumin (BSA)-modified nanofiber membrane: Dynamic adsorption performance and breakthrough analysis. Biochemical Engineering Journal, 2021, 171, 108016.	3.6	21

#	Article	IF	CITATIONS
368	Synthesis of hierarchically porous 3D polymeric carbon superstructures with nitrogen-doping by self-transformation: a robust electrocatalyst for the detection of herbicide bentazone. Mikrochimica Acta, 2021, 188, 271.	5.0	1
369	SiO <sub>2</sub> -Coated Fe <sub>3</sub> O <sub>4</sub> Nanoparticle/Polyacrylonitrile Beads for One-Step Lipase Immobilization. ACS Applied Nano Materials, 2021, 4, 7856-7869.	5.0	17
370	Electrospun polyacrylonitrile nanofibrous membranes supported with montmorillonite for efficient <scp>PM2</scp> .5 filtration and adsorption of Cu ( <scp>II</scp> ) ions. Journal of Applied Polymer Science, 2022, 139, 51582.	2.6	7
371	Electrospun composite membrane based on polyarylene sulfide sulfone/Ag/ <scp>ZnO</scp> nanofibers for antibacterial effective <scp>PM<sub>2</sub></scp> <sub>.5</sub> filtration. Journal of Applied Polymer Science, 2022, 139, 51693.	2.6	12
372	Preparation of high-temperature resistant poly (m-phenylene isophthalamide)/polyacrylonitrile composite nanofibers membrane for air filtration. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 624, 126831.	4.7	24
373	Integrated Treatment of Mining Dam Wastewater with Quaternized Chitosan and PAN/HPMC/AgNo3 Nanostructured Hydrophylic Membranes. Journal of Polymers and the Environment, 2022, 30, 1228-1243.	5.0	4
374	Efficient nitrate adsorbent applicable to wide pH range derived from polyacrylonitrile (PAN) fiber. Results in Engineering, 2021, 11, 100276.	5.1	5
375	A review on the processing–morphology–property relationship in biodegradable polymer composites containing carbon nanotubes and nanofibers. Polymer Engineering and Science, 2021, 61, 2719-2756.	3.1	14
376	Adsorption and purification performance of lysozyme from chicken egg white using ion exchange nanofiber membrane modified by ethylene diamine and bromoacetic acid. Food Chemistry, 2021, 358, 129914.	8.2	13
377	Battery-type MnCo2O4@carbon nanofibers composites with mesoporous structure for high performance asymmetric supercapacitor. Diamond and Related Materials, 2021, 119, 108586.	3.9	20
378	Fabrication of polyphenylene sulfide nanofibrous membrane via sacrificial templated-electrospinning for fast gravity-driven water-in-oil emulsion separation. Separation and Purification Technology, 2021, 275, 119124.	7.9	31
379	Facilely cyclization-modified PAN nanofiber substrate of thin film composite membrane for ultrafast polar solvent separation. Journal of Membrane Science, 2022, 641, 119911.	8.2	31
380	Electrospun Nanofibers Withstandable to High-Temperature Reactions: Synergistic Effect of Polymer Relaxation and Solvent Removal. Advanced Fiber Materials, 2021, 3, 14-25.	16.1	14
381	Unidirectionally aligned and randomly oriented electrospun nanofibrous polyacrylonitrile membranes. , 2021, , 361-381.		2
382	Polymers of vinylphosphonic acid, acrylonitrile, and methyl acrylate and their nanofibers. Journal of Applied Polymer Science, 2020, 137, 49023.	2.6	10
383	Nafion® reinforced with polyacrylonitrile/ <scp>ZrO<sub>2</sub></scp> nanofibers for direct methanol fuel cell application. Journal of Applied Polymer Science, 2021, 138, 49978.	2.6	13
384	Polyacrylonitrile/polyimide composite sub-micro fibrous membranes for precise filtration of PM0.26 pollutants. Journal of Colloid and Interface Science, 2020, 578, 195-206.	9.4	33
385	Porous carbon–carbon composite electrodes for vanadium redox flow batteries synthesized by twin polymerization. RSC Advances, 2020, 10, 41926-41935.	3.6	8

#	ARTICLE	IF	CITATIONS
386	The Effect of Styrene Monomer in the Graft Copolymerization of Arcylonitrile onto Deproteinized Natural Rubber. International Journal of Technology, 2015, 6, 1164.	0.8	5
387	Structure and Properties of Polyacrylonitrile/Polystyrene and Carbon Nanoparticle-Based Nanocomposite Foams. Advances in Materials Science, 2019, 19, 5-20.	1.0	4
388	Multifunctional e-spun colloidal nanofiber structures from various dispersed blends of PVA/ODA-MMT with PVP/ODA-MMT, poly(VP-alt-MA) and AgNPs incorporated polymer complexes as electro-active platforms. EXPRESS Polymer Letters, 2016, 10, 598-616.	2.1	11
389	Fabrication of Ru Nanoparticles Decorated Porous Carbon Nanofibers for Electrochemical Capacitors. Korean Journal of Materials Research, 2014, 24, 37-42.	0.2	4
390	Modification of Natural Rubber as a Resistant Material to Dimethyl Ether. Journal of Applied Sciences, 2017, 17, 53-60.	0.3	7
391	Plastic Pollution and Its Effect on the Environment. Advances in Environmental Engineering and Green Technologies Book Series, 2020, , 1-28.	0.4	3
392	Photocatalytic Activity of Electrospun PAN/TiO <sub>2</sub> Nanofibers in Dye Photodecomposition. Textile Coloration and Finishing, 2013, 25, 94-101.	0.0	9
393	Efficient Photocatalytic Degradation of Organic Pollutant in Wastewater by Electrospun Functionally Modified Polyacrylonitrile Nanofibers Membrane Anchoring TiO2 Nanostructured. Membranes, 2021, 11, 785.	3.0	16
394	Surface Modification of Carbon Nanofibers to Improve Their Biocompatibility in Contact with Osteoblast and Chondrocytes Cell Lines. Materials, 2021, 14, 6370.	2.9	6
395	Nitrogen doped CuCo2O4 nanoparticles anchored on beaded-like carbon nanofibers as an efficient bifunctional oxygen catalyst toward zinc-air battery. Journal of Colloid and Interface Science, 2022, 608, 1105-1115.	9.4	28
396	Influence of Carbon Nanotubes Concentration on Mechanical and Electrical Properties of Poly(styrene-co-acrylonitrile) Composite Yarns Electrospun. Polymers, 2021, 13, 3655.	4.5	1
397	Development of Porous Polyacrylonitrile Composite Fibers: New Precursor Fibers with High Thermal Stability. Electronic Materials, 2021, 2, 454-465.	1.9	8
398	A Perspective Review on the Application of Polyacrylonitrileâ€Based Supports for Laccase Immobilization. Chemical Record, 2022, 22, .	5.8	5
399	HMO-incorporated electrospun nanofiber recyclable membranes: Characterization and adsorptive performance for Pb(II) and As(V). Journal of Environmental Chemical Engineering, 2021, 9, 106507.	6.7	10
400	Carbon in Korea. Tanso, 2013, 2013, 145-148.	0.1	0
402	The Application of Thermal Building Nano-Insulation Materials Based on the Diffusivity Characteristic of Polyurethane Nanocomposite. International Journal of Chemical Engineering and Applications (IJCEA), 2014, 5, 69-72.	0.3	0
403	SÃntesis y caracterización de materiales nanoestructurados basados en carbono CuO y ZnO con potencial aplicación como un sensor de glucosa. QuÃmica Hoy Chemistry Sciences \$b, 2014, 4, 12.	0.1	0
404	Preliminary Study of Polyacrylonitrile (PAN)/Manganese Oxide Activated Carbon Nanofibers for Cd (II) Adsorption. Journal of Applied Membrane Science & Technology, 2017, 18, .	0.6	0

#	Article	IF	CITATIONS
405	Elektroeğirme Yöntemiyle Ag Katkılı Karbon Nanoliflerin Sentezi. Nevşehir Bilim Ve Teknoloji Dergisi, 0, , 88-97.	0.1	0
406	Study on Graphene Oxide-Modified Polyacrylonitrile Hollow Fiber Membrane. Integrated Ferroelectrics, 2020, 207, 62-74.	0.7	0
407	Superwetting Electrospun PDMS/PMMA Membrane for PM <sub>2.5</sub> Capture and Microdroplet Transfer. Langmuir, 2021, 37, 12972-12980.	3.5	12
408	X-ray Spectroscopy Study of theÂAtomic and Electronic StructureÂof Polyacrylonitrile-Based Nanocomposites at Different Stages of Formation. Springer Proceedings in Materials, 2020, , 33-39.	0.3	0
409	Free Volume in Epoxy Resins for CFRP Studied by Means of Positron Annihilation. Journal of the Japan Society for Precision Engineering, 2020, 86, 206-209.	0.1	0
410	Stimuli responsive graphene-based materials. , 2022, , 117-144.		0
411	Fabrication of polyacrylonitrile-Li1.6Mn1.6O4 composite nanofiber flat-sheet membranes via electrospinning method as effective adsorbents for Li+ recovery from salt-lake brine. Separation and Purification Technology, 2022, 284, 120242.	7.9	13
412	Facile Fabrication of Reinforced Sub-Micron Fibrous Media with Hierarchical Structure Compounded Thermally for Effective Air Purification In Application. SSRN Electronic Journal, 0, , .	0.4	0
413	COMPARISON OF FILTRATION PERFORMANCE BETWEEN NEAT AND PLASMA-TREATED PAN / MGO NANOFIBERS IN THE REMOVAL OF 10 TO 1000 NM PARTICLES. , 2021, 18, 45-62.		0
414	Versatile Graphitized Carbon Nanofibers in Energy Applications. ACS Sustainable Chemistry and Engineering, 2022, 10, 1334-1360.	6.7	18
415	Shape memory polymer/graphene nanocomposites: State-of-the-art. E-Polymers, 2022, 22, 165-181.	3.0	25
416	Aminated Polyacrylonitrile Nanofiber Membranes for the Removal of Organic Dyes. ACS Applied Nano Materials, 2022, 5, 1131-1140.	5.0	30
417	Advance modification of polyacrylonitrile nanofibers for enhanced removal of hexavalent chromium from water. Journal of Applied Polymer Science, 2022, 139, .	2.6	4
418	Onâ€Chip Direct Laser Writing of PANâ€Based Carbon Supercapacitor Electrodes. Macromolecular Rapid Communications, 2022, 43, e2100731.	3.9	5
419	Electrospun polyacrylonitrile (PAN) nanofiber: preparation, experimental characterization, organic vapor sensing ability and theoretical simulations of binding energies. Applied Physics A: Materials Science and Processing, 2022, 128, 1.	2.3	6
420	Modification strategies of polyacrylonitrile ultrafiltration membrane using TiO2 for enhanced antifouling performance in water treatment. Separation and Purification Technology, 2022, 286, 120500.	7.9	31
421	Efficient Phosphate Removal and Recovery from Wastewater by Using a Cheap and Flexible Zn(OH) <sub>2</sub> @Aminated Polyacrylonitrile Fiber. SSRN Electronic Journal, 0, , .	0.4	0
422	Surface-mediated twin polymerisation of 2,2′-spirobi[4 <i>H</i> -1,3,2-benzodioxasiline] on multi-walled carbon nanotubes, polyacrylonitrile particles and copper particles. Materials Advances, 2022, 3, 3925-3937.	5.4	3

		CITATION REPORT		
#	Article		IF	Citations
423	Anionic polymerizations in a microreactor. Reaction Chemistry and Engineering, 2022, 7	', 1026-1036.	3.7	3
424	Improving Nonenzymatic Biosensing Performance of Electrospun Carbon Nanofibers de Ni/Co Particles via Oxidation. Applied Biochemistry and Biotechnology, 2022, 194, 2542	corated with 2-2564.	2.9	10
426	Fabrication of GO/PAN Nanofiber Membrane Grafted with Chitosan as Efficient Adsorbe Removal. Journal of Polymers and the Environment, 2022, 30, 2943-2954.	nt for Dye	5.0	7
427	Recent Progress in Microfiltration/Ultrafiltration Membranes for Separation of Oil and V Emulsions. Chemical Record, 2022, 22, e202100320.	Vater	5.8	25
428	Electrospinning organic solvent resistant preoxidized poly(acrylonitrile) nanofiber meml properties. Chinese Journal of Chemical Engineering, 2023, 53, 289-299.	orane and its	3.5	4
429	A High Flux Electrochemical Filtration System Based on Electrospun Carbon Nanofiber N Efficient Tetracycline Degradation. Water (Switzerland), 2022, 14, 910.	1embrane for	2.7	1
430	Launching deep eutectic solvents (DESs) and natural deep eutectic solvents (NADESs), with different harmless co-solvents, for the preparation of more sustainable membranes Membrane Science, 2022, 649, 120387.	in combination Journal of	8.2	25
431	Sol-gel derived silica: A review of polymer-tailored properties for energy and environmer applications. Microporous and Mesoporous Materials, 2022, 336, 111874.	tal	4.4	31
432	Electrospun carbon nanofibres: Preparation, characterization and application for adsorp pollutants from water and air. Separation and Purification Technology, 2022, 288, 1206	tion of 966.	7.9	18
433	Nafion reinforced with polyacrylonitrile nanofibers/zirconium-graphene oxide composite for direct methanol fuel cell application. Journal of Polymer Research, 2022, 29, 1.	membrane	2.4	1
434	Efficient lamellar twoâ€dimensional proton channels derived from dipole interactions in polyelectrolyte membrane. AICHE Journal, 2022, 68, .	а	3.6	8
435	Polyphenol modified natural collagen fibrous network towards sustainable and antibact microfiltration membrane for efficient water disinfection. Water Research, 2022, 218, 1	erial 18469.	11.3	22
437	Carbon fibers derived from commodity polymers: A review. Carbon, 2022, 196, 422-439	۱.	10.3	24
438	Tunable multi-doped carbon nanofiber air cathodes based on a poly(ionic liquid) for sod batteries with diglyme/ionic liquid-based hybrid electrolytes. Journal of Materials Chemis 10, 11742-11754.	ium oxygen ttry A, 2022,	10.3	6
439	Nanofibrous membranes with antibacterial and thermoregulatory functions fabricated b electrospinning. Journal of Industrial and Engineering Chemistry, 2022, 113, 373-379.	y coaxial	5.8	7
440	Fabrication of hydrophilic special sandwich structure of PAN/GO/SiO2 electrospun mem decorated with SiO2 nanoparticles for oil/water separation. Journal of Water Process Er 2022, 48, 102926.	brane gineering,	5.6	24
441	Recovery of Ag(I) from aqueous solution by hyperbranched polyethyleneimine grafted polyacrylonitrile/graphene oxide electrospun nanocomposite fiber membrane for catalys of toxic P-nitrophenol. Diamond and Related Materials, 2022, 127, 109161.	ic reduction	3.9	5
442	Traceâ€Level Phenolics Detection Based on Composite PANâ€MWCNTs Nanofibers. Ch	emBioChem, 2022, 23, .	2.6	2

		CITATION REPORT		
#	Article		IF	CITATIONS
443	Cadmium-Rich Plant Powder/PAN/PU Foams with Low Thermal Conductivity. Polymers,	2022, 14, 2893.	4.5	0
444	Development of Recycled Expanded Polystyrene Nanofibers Modified by Chitosan for t Lead(II) from Water. Metals, 2022, 12, 1334.	he Removal of	2.3	8
445	Carbon Nanomaterials-Based Novel Hybrid Platforms for Electrochemical Sensor Applic Analysis. Critical Reviews in Analytical Chemistry, 0, , 1-16.	ations in Drug	3.5	8
446	Studies of Protein Wastes Adsorption by Chitosan-Modified Nanofibers Decorated with Batch and Continuous Flow Processes: Potential Environmental Applications. Membrai 759.	n Dye Wastes in nes, 2022, 12,	3.0	9
447	Dielectric Characterization of Al/PAN/nË—Si/Al Structure as a Function of Frequency ar Journal of Solid State Science and Technology, 2022, 11, 083001.	ıd Voltage. ECS	1.8	0
448	Facile fabrication of Ni nanoparticles embedded within highly N-Doped carbon nanofib outstanding catalyst for quinoline hydrogenation. Journal of Alloys and Compounds, 24 166703.	ers as an 022, 925,	5.5	1
449	Simultaneous boost of anodic electron transfer and exoelectrogens enrichment by dec electrospinning carbon nanofibers in microbial fuel cell. Chemosphere, 2022, 308, 136	corating 434.	8.2	6
450	Highly N-doped and flexible carbon nanofiber membrane as cathode host for Li-Se batt Alloys and Compounds, 2022, 927, 167014.	eries. Journal of	5.5	3
451	Electrospun composite nanofibers as novel high-performance and visible-light photoca removal of environmental pollutants: A review. Environmental Research, 2022, 215, 11	talysts for 14296.	7.5	8
452	Nature-inspired 3D hierarchical structured "vine―for efficient microwave attenuat electromagnetic energy conversion device. Chemical Engineering Journal, 2023, 452, 1	tion and .39042.	12.7	42
453	A Novel Triple Crosslinking Strategy on Carbon Nanofiber Membranes as Flexible Electr Lithium-Ion Batteries. Polymers, 2022, 14, 3528.	odes for	4.5	3
454	Multifunctional ultralight, recoverable, piezoresistive, and super thermal insulating SiC sponges. Journal of the American Ceramic Society, 2023, 106, 1299-1308.	nanowire	3.8	1
455	Hierarchical Design Strategies to Produce Internally Structured Nanofibers. Polymer Re 63, 679-714.	eviews, 2023,	10.9	1
456	Recent progress on freestanding carbon electrodes for flexible supercapacitors. New C Materials, 2022, 37, 875-897.	arbon	6.1	13
457	Predicting char yield of high-temperature resins. Carbon, 2023, 202, 336-347.		10.3	5
458	Oxidative stabilization of pitchâ€polyacrylonitrile composite nanofibers electrospun by highâ€percentage inexpensive pitch. Journal of Applied Polymer Science, 0, , .	/ incorporating	2.6	0
459	A Review on Non-Enzymatic Electrochemical Biosensors of Glucose Using Carbon Nand Nanocomposites. Biosensors, 2022, 12, 1004.	ofiber	4.7	13
460	Poly(vinyl alcohol) (PVA)-based nanofibers materials for azo dye adsorption: an overvie International Journal of Environmental Science and Technology, 2023, 20, 7029-7054.	w.	3.5	4

#	Article	IF	CITATIONS
461	Nonsteroidal anti-inflammatory drug monitoring in serum: a Tb-MOF-based luminescent mixed matrix membrane detector with high sensitivity and reliability. Dalton Transactions, 2023, 52, 644-651.	3.3	2
462	A comparative investigation of the synergistic correlation (mechanical-hydrophobicity/hydrophilicity) Tj ETQq1 1 nanoparticles (AgPAN): An in-situ surface metallization protocol. Journal of Industrial Textiles, 2022, 52, 152808372211404	0.784314 2.4	rgBT /Over 0
463	Super-hydrophilic electrospun PAN nanofibrous membrane modified with alkaline treatment and ultrasonic-assisted PANI in-situ polymerization for highly efficient gravity-driven oil/water separation. Separation and Purification Technology, 2023, 309, 123032.	7.9	19
464	Aminated polyacrylonitrile fibers for the removal of hydrogen sulfide from natural gas at room temperature. Research on Chemical Intermediates, 2023, 49, 701-716.	2.7	2
465	Electrospun carbon nanofibers for use in the capacitive desalination of water. New Carbon Materials, 2022, 37, 1066-1084.	6.1	3
466	MXene/Fluoropolymerâ€Derived Laser arbonaceous Allâ€Fibrous Nanohybrid Patch for Soft Wearable Bioelectronics. Advanced Functional Materials, 2023, 33, .	14.9	8
467	From waste to wearable: an alternative waste stream for unusable textiles turned into piezoelectric textiles. , 2023, 1, 326-334.		2
468	The highly absorbent polyurethane/polylactic acid blend electrospun tissue scaffold for dermal wound dressing. Polymer Bulletin, 2023, 80, 12787-12813.	3.3	3
469	Nature-Inspired Photoactive Metal–Organic Framework Nanofiber Filters for Oil–Water Separation: Conserving Successive Flux, Rejection, and Antifouling. Industrial & Engineering Chemistry Research, 2023, 62, 1085-1098.	3.7	1
470	Mechanics – Microstructure relations in 1D, 2D and mixed dimensional carbon nanomaterials. Carbon, 2023, 204, 162-190.	10.3	8
471	Preparation of hierarchical micro-meso porous carbon and carbon nanofiber from polyacrylonitrile/polysulfone polymer via one-step carbonization for supercapacitor electrodes. Electrochimica Acta, 2023, 441, 141827.	5.2	15
472	Encroachments in stimuli-responsive polymer/C60 systems. , 2023, , 131-152.		1
473	Principles of electrospinning and nanofiber membranes. , 2023, , 3-25.		1
474	Efficient removal of high- or low-concentration copper ions using diethylenetriamine-grafted electrospun polyacrylonitrile fibers. New Journal of Chemistry, 2023, 47, 5639-5649.	2.8	9
475	Future perspectives and market of the electrospun and nanofibrous membranes. , 2023, , 625-635.		0
476	Roles of molecular structure of carbon-based materials in energy storage. Materials Today Sustainability, 2023, 22, 100375.	4.1	3
477	Porous Carbon Nanofiber Flexible Membranes via a Bottlebrush Copolymer Template for Enhanced High-Performance Supercapacitors. ACS Applied Materials & Interfaces, 2023, 15, 5644-5656.	8.0	2
478	Improving Cycling Performance of Vanadium-Based Electrode Deposited with Poly(3,4-Ethylenedioxythiophene) for Lithium-Ion Battery Application. ACS Applied Energy Materials, 2023 6, 1605-1620	5.1	3

ARTICLE IF CITATIONS # Synthesis and Characterization of Electrospun Sorbent for the Solid-Phase Extraction of 479 2.4 0 Fluoroquinolones in Human Plasma and Their UHPLC-PDA Determination. Separations, 2023, 10, 104. Tyrosinase Immobilization Strategies for the Development of Electrochemical Biosensors—A Review. 480 4.1 Nanomaterials, 2023, 13, 760. Controlling the physical properties of polyacrylonitrile by strontium hexaferrite nanoparticles. 481 3.3 1 Polymer Bulletin, 2024, 81, 697-718. Chemically activated carbon nanofibers for adsorptive removal of bisphenol-A: Batch adsorption and breakthrough curve study. Chinese Journal of Chemical Engineering, 2023, 61, 248-259. Molecular Understanding of Adhesion of Epoxy Resin to Graphene and Graphene Oxide Surfaces in 483 3.5 4 Terms of Orbital Interactions. Langmuir, 2023, 39, 5514-5526. Functionalized nanofibers for remediation of organic pollutants and catalytic applications., 2023, 484 483-501. Polyacrylonitrile in the Preparation of Separation Membranes: A Review. Industrial & amp; Engineering 485 3.7 7 Chémistry Research, 2023, 62, 6537-6558. Effect of wire and needle spinning on the direct manufacturing PAN/amine nanofibrous membranes 486 2.4 for CO<sub>2</sub> sorption. Journal of Industrial Textiles, 2023, 53, 152808372311760. Mesoscale Simulations of Structure Formation in Polyacrylonitrile Nascent Fibers Induced by Binary 487 0 4.1 Solvent Mixture. International Journal of Molecular Sciences, 2023, 24, 9312. Trash to treasure: electrocatalytic upcycling of polyethylene terephthalate (PET) microplastic to value-added products by MnO.1NiO.9Co2O4-1 RSFs spinel. Journal of Hazardous Materials, 2023, 457, 12.4 131743. Gamma radiation-induced synthesis of TiO2 immobilized on polyacrylonitrile nanocomposite for gallium, strontium and rubidium ions separation from aqueous solutions. Radiation Physics and 489 2 2.8 Chemistry, 2023, 212, 111085. Uniform doping of onion-like carbon nanofillers in carbon nanofibers via functionalization and in-situ polymerization for improved fiber graphitic structure and mechanical properties. Colloids and 490 4.7 Surfaces Á: Physicochemical and Engineering Aspects, 2023, 674, 131874. Non-polyamide nanofiltration (NPA-NF) membrane: A non-mainstream but indispensable member of the 491 8.2 2 "membrane family― Desalination, 2023, 564, 116772. Progress and perspectives of in situ polymerization method for lithiumâ€based batteries. , 2023, 2, 609-634. Fiber Spinning of Polyacrylonitrile Terpolymers Containing Acrylic Acid and Alkyl Acrylates. Fibers, 493 4.0 1 2023, 11, 65. Mechanical and Thermal Characterization of Annealed Oriented PAN Nanofibers. Polymers, 2023, 15, 494 3287. A Three-Dimensional Fiber-Network-Reinforced Composite Solid-State Electrolyte from Waste Acrylic Fibers for Flexible All-Solid-State Lithium Metal Batteries. ACS Applied Materials & amp; Interfaces, 2023, 495 8.0 1 15, 38507-38521. Electrochemical immunosensor based on carbon nanofibers and gold nanoparticles for detecting anti-Toxoplasma gondii IgG antibodies. Mikrochimica Acta, 2023, 190, .

#	Article	IF	CITATIONS
497	Assessing the Effect of Stabilization and Carbonization Temperatures on Electrochemical Performance of Electrospun Carbon Nanofibers from Polyacrylonitrile. Advanced Energy and Sustainability Research, 2023, 4, .	5.8	0
498	Well-dispersed NiFe nanoalloy embedded on N-doped carbon nanofibers as free-standing air cathode for all-solid-state flexible zinc-air battery. Journal of Energy Storage, 2023, 72, 108743.	8.1	4
499	Efficient Gallium Recovery from Aqueous Solutions Using Polyacrylonitrile Nanofibers Loaded with D2EHPA. Metals, 2023, 13, 1545.	2.3	0
500	Tunable 1D and 2D Polyacrylonitrile Nanosheet Superstructures. ACS Nano, 2023, 17, 18392-18401.	14.6	0
501	Sustainable Production of Nitriles from Biomass. Biofuels and Biorefineries, 2023, , 143-162.	0.5	0
503	In situ construction of fluorine-containing modified gel polymer electrolyte with high interfacial stability for high-rate lithium metal battery. Journal of Power Sources, 2023, 584, 233612.	7.8	2
505	One-dimensional electrospinning nanomaterials toward capacitive deionization: Fundamentals, development, and perspectives. Desalination, 2023, 567, 117010.	8.2	5
506	Critical Electrospinning Parameters for Synthesis Control of Stabilized Polyacrylonitrile Nanofibers. Nanomaterials, 2023, 13, 2648.	4.1	0
507	Dense NiCo <sub>2</sub> O <sub>4</sub> Nanoneedles Grown on Carbon Foam Showing Excellent Electrochemical and Microwave Absorption Properties. Chemistry - A European Journal, 2023, 29, .	3.3	1
508	A hierarchical multiscale modelling approach to characterize the elastic response of layered graphene-reinforced 4D-carbon carbon composite. International Journal on Interactive Design and Manufacturing, 0, , .	2.2	1
509	A review: Polyacrylonitrile as high-performance piezoelectric materials. Nano Energy, 2023, 118, 108987.	16.0	2
510	Relationship Between Solution Concentration and Nanofiber Diameter. Northwestern Medical Journal, 2023, 38, 775-786.	0.2	0
511	Review of the recent advances on the fabrication, modification and application of electrospun TiO2 and ZnO nanofibers for the treatment of organic pollutants in wastewater. Frontiers in Chemical Engineering, 0, 5, .	2.7	0
512	A Comprehensive Review of Performance of Polyacrylonitrile-Based Membranes for Forward Osmosis Water Separation and Purification Process. Membranes, 2023, 13, 872.	3.0	0
513	Freestanding Carbon Nanofibers Derived from Biopolymer (Kraft Lignin) as Ultra-Microporous Electrodes for Supercapacitors. Batteries, 2023, 9, 566.	4.5	0
514	Novel piezoelectric properties of electrospun polyamide-imide nanofiber membranes. Journal of Materials Chemistry A, 2023, 11, 26230-26241.	10.3	1
515	Fabrication of multi-functional gelatin/deep eutectic solvent/polyacrylonitrile nanofiber membranes <i>via</i> electrospinning. Soft Matter, 2023, 19, 9315-9324.	2.7	0
517	Fabrication and characterization of modified POD membranes with ultra-high tensile strength through hydrogen bonding functioning and copolymerization. High Performance Polymers, 2024, 36, 71-81	1.8	0

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518	Fabrication of porous carbon nanofiber webs from polyacrylonitrile and cellulose acetate for NaCl removal from water using capacitive deionization. Water Science and Technology: Water Supply, 0, , .	2.1	1		
519	Batch fabrication and characterization of aligned PAN-based nanofiber membranes for lithium-ion battery separators. Journal of Energy Storage, 2024, 79, 110230.	8.1	ο		

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521	Advancements in Dendrite Suppression for Enhanced Energy Storage Technologies. , 0, 73, 225-231.		0
522	Progress and prospects of electrospun nanofibrous membranes for water filtration: A comprehensive review. Desalination, 2024, 574, 117285.	8.2	0
523	Porous carbon from polyvinylidene chloride or polyvinylidene fluoride with ZnO, Mg(OH)2, and KOH for supercapacitor. Carbon Letters, 2024, 34, 677-690.	5.9	0
524	Targeted elimination of molybdenum ions from a leaching solution with the ability of radiated grafting GMA-PAN nanofibers. Scientific Reports, 2024, 14, .	3.3	0
525	Polyurethane in shape memory nanomaterials. , 2024, , 41-62.		0
526	Shape memory polystyrene and trans-1,4-polyisoprene-derived nanocomposites. , 2024, , 111-131.		0
527	Tunable electrospun scaffolds of polyacrylonitrile loaded with carbon nanotubes: from synthesis to biological applications. ChemBioChem, 2024, 25, .	2.6	0
528	Polyelectrolyte electrostatically self-assembled modified porous polyacrylonitrile nanofibers as adsorbents for anionic dye removal. Journal of Water Process Engineering, 2024, 59, 105027.	5.6	0
530	Developments in conducting polymer-, metal oxide-, and carbon nanotube-based composite electrode materials for supercapacitors: a review. RSC Advances, 2024, 14, 9406-9439.	3.6	0