Xupin Zhuang

List of Publications by Year in descending order

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84 papers	2,760 citations	172207 29 h-index	197535 49 g-index
84 all docs	84 docs citations	84 times ranked	2923 citing authors

#	Article	IF	Citations
1	A review on anode for lithium-sulfur batteries: Progress and prospects. Chemical Engineering Journal, 2018, 347, 343-365.	6.6	227
2	Solution blowing of chitosan/PVA hydrogel nanofiber mats. Carbohydrate Polymers, 2014, 101, 1116-1121.	5.1	143
3	Modification of Nafion membrane with biofunctional SiO2 nanofiber for proton exchange membrane fuel cells. Journal of Power Sources, 2017, 340, 201-209.	4.0	128
4	Electrospun chitosan/gelatin nanofibers containing silver nanoparticles. Carbohydrate Polymers, 2010, 82, 524-527.	5.1	116
5	Solution blowing of submicron-scale cellulose fibers. Carbohydrate Polymers, 2012, 90, 982-987.	5.1	106
6	Solution blowing of ZnO nanoflake-encapsulated carbon nanofibers as electrodes for supercapacitors. Journal of Materials Chemistry A, 2013, 1, 13779.	5.2	90
7	Hierarchical dual-nanonet of polymer nanofibers and supramolecular nanofibrils for air filtration with a high filtration efficiency, low air resistance and high moisture permeation. Journal of Materials Chemistry A, 2021, 9, 14093-14100.	5.2	84
8	Cellulose nanofiber-embedded sulfonated poly (ether sulfone) membranes for proton exchange membrane fuel cells. Carbohydrate Polymers, 2018, 184, 299-306.	5.1	82
9	Solution blown nanofibrous membrane for microfiltration. Journal of Membrane Science, 2013, 429, 66-70.	4.1	76
10	Proton Donor-Regulated Mechanically Robust Aramid Nanofiber Aerogel Membranes for High-Temperature Thermal Insulation. ACS Nano, 2022, 16, 5984-5993.	7.3	67
11	Solution blown sulfonated poly(ether ether ketone) nanofiberâ€“Nafion composite membranes for proton exchange membrane fuel cells. RSC Advances, 2015, 5, 4934-4940.	1.7	63
12	Solution blowing of continuous carbon nanofiber yarn and its electrochemical performance for supercapacitors. Chemical Engineering Journal, 2014, 237, 308-311.	6.6	62
13	In situ synthesis of ZnS nanoparticles onto cellulose/chitosan sponge for adsorptionâ€“photocatalytic removal of Congo red. Carbohydrate Polymers, 2022, 288, 119332.	5.1	61
14	Solution blowing nylon 6 nanofiber mats for air filtration. Fibers and Polymers, 2013, 14, 1485-1490.	1.1	58
15	Bio-inspired amino-acid-functionalized cellulose whiskers incorporated into sulfonated polysulfone for proton exchange membrane. Journal of Power Sources, 2019, 409, 123-131.	4.0	54
16	Exploration of Blood Coagulation of N-Alkyl Chitosan Nanofiber Membrane in Vitro. Biomacromolecules, 2018, 19, 731-739.	2.6	51
17	Polyvinyl Alcohol-derived carbon nanofibers/carbon nanotubes/sulfur electrode with honeycomb-like hierarchical porous structure for the stable-capacity lithium/sulfur batteries. Journal of Power Sources, 2017, 346, 1-12.	4.0	48
18	Nanofiber hybrid membranes: progress and application in proton exchange membranes. Journal of Materials Chemistry A, 2021, 9, 3729-3766.	5.2	48

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19	Amino acid-functionalized metal organic framework with excellent proton conductivity for proton exchange membranes. International Journal of Hydrogen Energy, 2021, 46, 1163-1173.	3.8	47
20	A comparative study of alumina fibers prepared by electro-blown spinning (EBS) and solution blowing spinning (SBS). Materials Letters, 2015, 160, 533-536.	1.3	41
21	Fabrication of ZrO2 ceramic fiber mats by solution blowing process. Ceramics International, 2014, 40, 15013-15018.	2.3	39
22	Solution Blown Silicon Carbide Porous Nanofiber Membrane as Electrode Materials for Supercapacitors. Electrochimica Acta, 2016, 207, 257-265.	2.6	39
23	Xanthated chitosan/cellulose sponges for the efficient removal of anionic and cationic dyes. Reactive and Functional Polymers, 2021, 160, 104840.	2.0	39
24	Chitin nanowhisker-supported sulfonated poly(ether sulfone) proton exchange for fuel cell applications. Carbohydrate Polymers, 2016, 140, 195-201.	5.1	38
25	Manufacture and properties of chitosan/N,O-carboxymethylated chitosan/viscose rayon antibacterial fibers. Journal of Applied Polymer Science, 2002, 84, 2049-2059.	1.3	33
26	Manufacture and properties of cellulose/O-hydroxyethyl chitosan blend fibers. Carbohydrate Polymers, 2010, 81, 541-544.	5.1	32
27	Solution blown biofunctionalized poly(vinylidene fluoride) nanofibers for application in proton exchange membrane fuel cells. Electrochimica Acta, 2017, 258, 24-33.	2.6	32
28	Proton-Conducting Poly-Î³-glutamic Acid Nanofiber Embedded Sulfonated Poly(ether sulfone) for Proton Exchange Membranes. ACS Applied Materials & Interfaces, 2019, 11, 21865-21873.	4.0	32
29	Zeolitic imidazolate framework decorated on 3D nanofiber network towards superior proton conduction for proton exchange membrane. Journal of Membrane Science, 2020, 601, 117914.	4.1	31
30	Solution blowing of chitosan/PLA/PEG hydrogel nanofibers for wound dressing. Fibers and Polymers, 2016, 17, 205-211.	1.1	30
31	Preparation and Properties of sc-PLA/PMMA Transparent Nanofiber Air Filter. Polymers, 2018, 10, 996.	2.0	30
32	Amino acid clusters supported by cellulose nanofibers for proton exchange membranes. Journal of Power Sources, 2019, 438, 227035.	4.0	30
33	Solution blown aligned carbon nanofiber yarn as supercapacitor electrode. Journal of Materials Science: Materials in Electronics, 2013, 24, 4769-4773.	1.1	29
34	Research progress of ultrafine alumina fiber prepared by sol-gel method: A review. Chemical Engineering Journal, 2021, 421, 127744.	6.6	29
35	Fabrication of electrospun sulfonated poly(ether sulfone) nanofibers with amino modified SiO2 nanosphere for optimization of nanochannels in proton exchange membrane. Solid State Ionics, 2020, 349, 115300.	1.3	27
36	Solution blowing of activated carbon nanofibers for phenol adsorption. RSC Advances, 2015, 5, 5801-5808.	1.7	26

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37	Embedding phosphoric acid-doped cellulose nanofibers into sulfonated poly (ether sulfone) for proton exchange membrane. Polymer, 2018, 156, 179-185.	1.8	26
38	Proton-conducting amino acid-modified chitosan nanofibers for nanocomposite proton exchange membranes. European Polymer Journal, 2019, 119, 327-334.	2.6	26
39	UiO-66-NH2 functionalized cellulose nanofibers embedded in sulfonated polysulfone as proton exchange membrane. International Journal of Hydrogen Energy, 2021, 46, 19106-19115.	3.8	26
40	Biofunctionalized nanofiber hybrid proton exchange membrane based on acid-base ion-nanochannels with superior proton conductivity. Journal of Power Sources, 2020, 452, 227839.	4.0	24
41	A highly efficient adsorbent constructed by the in situ assembly of Zeolitic imidazole framework-67 on 3D aramid nanofiber aerogel scaffold. Separation and Purification Technology, 2021, 274, 119054.	3.9	23
42	Hybrid nanofibrous aerogels for all-in-one solar-driven interfacial evaporation. Journal of Colloid and Interface Science, 2022, 624, 377-384.	5.0	23
43	Novel structure design of composite proton exchange membranes with continuous and through-membrane proton-conducting channels. Journal of Power Sources, 2017, 365, 92-97.	4.0	22
44	Adenosine triphosphate@graphene oxide proton channels for proton exchange membranes constructed via electrostatic layer-by-layer deposition. Journal of Membrane Science, 2021, 620, 118880.	4.1	21
45	Generation of nanofibers via electrostaticâ€Inductionâ€assisted solution blow spinning. Journal of Applied Polymer Science, 2015, 132, .	1.3	19
46	Facile construction of hierarchical porous ultrafine alumina fibers (HPAFs) and its application for dye adsorption. Microporous and Mesoporous Materials, 2020, 308, 110544.	2.2	19
47	Toward high-performance multifunctional electronics: Knitted fabric-based composite with electrically conductive anisotropy and self-healing capacity. Chemical Engineering Journal, 2021, 426, 131931.	6.6	19
48	Self-assembly of metal-organic framework onto nanofibrous mats to enhance proton conductivity for proton exchange membrane. International Journal of Hydrogen Energy, 2021, 46, 36415-36423.	3.8	18
49	Solution-blown coreâ€“shell hydrogel nanofibers for bovine serum albumin affinity adsorption. RSC Advances, 2015, 5, 83232-83238.	1.7	16
50	Ordered proton channels constructed from deoxyribonucleic acid-functionalized graphene oxide for proton exchange membranes via electrostatic layer-by-layer deposition. International Journal of Hydrogen Energy, 2020, 45, 27772-27778.	3.8	16
51	Blend films ofO-carboxymethyl chitosan and cellulose inN-methylmorpholine-N-oxide monohydrate. Journal of Applied Polymer Science, 2006, 102, 4601-4605.	1.3	15
52	Study on antibacterial activity of O-carboxymethyl chitosan sodium salt and spinnability of O-carboxymethyl chitosan sodium salt/cellulose polyblends in N-methylmorpholine-N-oxide system. Carbohydrate Polymers, 2012, 89, 104-110.	5.1	15
53	Novel proton-conductive nanochannel membranes with modified SiO2 nanospheres for direct methanol fuel cells. Journal of Solid State Electrochemistry, 2018, 22, 3475-3484.	1.2	14
54	Solution Blowing of Silicon Carbide nanofiber and its thermal stability. Science of Advanced Materials, 2013, 5, 209-215.	0.1	14

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55	Solution blown sulfonated poly(ether sulfone)/poly(ether sulfone) nanofiberâ€Nafion composite membranes for proton exchange membrane fuel cells. Journal of Applied Polymer Science, 2015, 132, .	1.3	13
56	Solution Blowing of Polyacrylonitrile Nanofiber Mats Containing Fluoropolymer for Protective Applications. Fibers and Polymers, 2018, 19, 775-781.	1.1	13
57	Hot-Pressed Wet-Laid Polyethylene Terephthalate Nonwoven as Support for Separation Membranes. Polymers, 2019, 11, 1547.	2.0	13
58	UV-crosslinked Solution Blown PVDF Nanofiber Mats for Protective Applications. Fibers and Polymers, 2020, 21, 489-497.	1.1	13
59	Cellulose/Chitosan Composite Sponge for Efficient Protein Adsorption. Industrial & Engineering Chemistry Research, 2021, 60, 9159-9166.	1.8	13
60	In situ loading MnO2 onto 3D Aramid nanofiber aerogel as High-Performance lead adsorbent. Journal of Colloid and Interface Science, 2021, 600, 403-411.	5.0	13
61	Banana Fiber Degumming by Alkali Treatment and Ultrasonic Methods. Journal of Natural Fibers, 2022, 19, 12911-12923.	1.7	12
62	Coaxial solution blown core-shell structure nanofibers for drug delivery. Macromolecular Research, 2013, 21, 346-348.	1.0	11
63	Preparation and BSA Adsorption Behavior of Chitosan-arginine Based Nanofiber Membranes. Fibers and Polymers, 2018, 19, 941-948.	1.1	11
64	Preparation and properties of 2-(2-aminoethoxy) ethyl chitosan/cellulose fiber using N-methylmorpholine-N-oxide process. Fibers and Polymers, 2008, 9, 400-404.	1.1	10
65	Preparation of Polyacrylonitrile Nanofibers by Solution Blowing Process. Journal of Engineered Fibers and Fabrics, 2013, 8, 155892501300800.	0.5	10
66	Solutionâ€blown SPEEK/POSS nanofiberâ€“nafion hybrid composite membranes for direct methanol fuel cells. Journal of Applied Polymer Science, 2015, 132, .	1.3	10
67	Solution Blown Nylon 6 Nanofibrous Membrane as Scaffold for Nanofiltration. Polymers, 2019, 11, 364.	2.0	10
68	In Situ Synthesis of Au Nanoparticles on Viscose Cellulose Sponges for Antibacterial Activities. Polymers, 2019, 11, 1281.	2.0	8
69	Enhancing proton conductivity of proton exchange membrane with SPES nanofibers containing porous organic cage. Polymers for Advanced Technologies, 2020, 31, 1571-1580.	1.6	8
70	Rheological study onO?carboxymethylated chitosan/cellulose polyblends from LiCl/N,N-dimethylacetamide solution. Journal of Applied Polymer Science, 2003, 88, 1719-1725.	1.3	7
71	Development of amino acid-modified PET/PA6 segmented pie bicomponent spunbonded microfiber nonwoven for bilirubin affinity adsorption. Fibers and Polymers, 2017, 18, 633-640.	1.1	7
72	Hierarchical fibrous microfiltration membranes by self-assembling DBS nanofibrils in solution-blown nanofibers. Soft Matter, 2018, 14, 8879-8882.	1.2	7

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73	Bio-analogue l-lysine lined arrangement on nanofibers with superior proton-conduction for proton exchange membrane. Solid State Ionics, 2020, 348, 115289.	1.3	7
74	Rheological behavior and spinnability of ethylamine hydroxyethyl chitosan/cellulose co-solution in N-methylmorpholine-N-oxide system. Fibers and Polymers, 2016, 17, 778-788.	1.1	6
75	Self-Assembly DBS Nanofibrils on Solution-Blown Nanofibers as Hierarchical Ion-Conducting Pathway for Direct Methanol Fuel Cells. Polymers, 2018, 10, 1037.	2.0	6
76	Study on pore size distribution and thermal conductivity of aramid nanofiber aerogels based on fractal theory. Journal of Applied Physics, 2021, 130, .	1.1	6
77	Antibacterial Finishing of Tencel/Cotton Nonwoven Fabric Using Ag Nanoparticles-Chitosan Composite. Journal of Engineered Fibers and Fabrics, 2012, 7, 155892501200700.	0.5	5
78	Preparation and characterization of proton exchange membranes with through-membrane proton conducting channels. Ionics, 2017, 23, 2359-2366.	1.2	5
79	Emulsion-Blow Spun Self-Sustained Crystalline Î²-Silicon Carbide (SiC) Fiber Mat and Its Conductivity Property. Transactions of the Indian Ceramic Society, 2017, 76, 159-164.	0.4	4
80	Manufacture and performance of O-carboxymethyl chitosan sodium salt/cellulose fibers in N-methylmorpholine-N-oxide system. Fibers and Polymers, 2014, 15, 1575-1582.	1.1	2
81	Fabrication of fibrous microfiltration membrane by pore filling of nanofibers into poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.1	2
82	Aramid fibril aerogel from steam-exploded PPTA pulp for thermal insulation. Journal of Polymer Research, 2022, 29, 1.	1.2	2
83	Homogeneous Composite Nonwoven Support for High Temperatureâ€Resistant Separation Membranes. Macromolecular Materials and Engineering, 2021, 306, 2000758.	1.7	1
84	Optimization of the preparation process of electrostatic-solution blow spinning nanofiber yarn using response surface methodology. Textile Reseach Journal, 0, , 0040517522110l1.	1.1	1