

Yang Si

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198
papers

13,750
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112
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207
ext. papers

16,475
ext. citations

9.8
avg, IF

7.11
L-index

#	Paper	IF	Citations
198	Ultralight nanofibre-assembled cellular aerogels with superelasticity and multifunctionality. <i>Nature Communications</i> , 2014 , 5, 5802	17.4	675
197	Biomimetic electrospun nanofibrous structures for tissue engineering. <i>Materials Today</i> , 2013 , 16, 229-243	11.8	541
196	Superelastic and superhydrophobic nanofiber-assembled cellular aerogels for effective separation of oil/water emulsions. <i>ACS Nano</i> , 2015 , 9, 3791-9	16.7	522
195	Electrospun nanomaterials for ultrasensitive sensors. <i>Materials Today</i> , 2010 , 13, 16-27	21.8	502
194	Biomimetic and Superwetttable Nanofibrous Skins for Highly Efficient Separation of Oil-in-Water Emulsions. <i>Advanced Functional Materials</i> , 2018 , 28, 1705051	15.6	381
193	Electro-spinning/netting: A strategy for the fabrication of three-dimensional polymer nano-fiber/nets. <i>Progress in Materials Science</i> , 2013 , 58, 1173-1243	42.2	375
192	Engineering biomimetic superhydrophobic surfaces of electrospun nanomaterials. <i>Nano Today</i> , 2011 , 6, 510-530	17.9	366
191	Gas sensors based on electrospun nanofibers. <i>Sensors</i> , 2009 , 9, 1609-24	3.8	326
190	Ultralight Biomass-Derived Carbonaceous Nanofibrous Aerogels with Superelasticity and High Pressure-Sensitivity. <i>Advanced Materials</i> , 2016 , 28, 9512-9518	24	310
189	Electrospun nanofibrous materials: a versatile medium for effective oil/water separation. <i>Materials Today</i> , 2016 , 19, 403-414	21.8	304
188	Superhydrophilic and underwater superoleophobic nanofibrous membrane with hierarchical structured skin for effective oil-in-water emulsion separation. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 497-502	13	253
187	Ultralight and fire-resistant ceramic nanofibrous aerogels with temperature-invariant superelasticity. <i>Science Advances</i> , 2018 , 4, eaas8925	14.3	243
186	Direct fabrication of highly nanoporous polystyrene fibers via electrospinning. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 521-8	9.5	227
185	In situ polymerized superhydrophobic and superoleophilic nanofibrous membranes for gravity driven oil-water separation. <i>Nanoscale</i> , 2013 , 5, 11657-64	7.7	201
184	Subtle regulation of the micro- and nanostructures of electrospun polystyrene fibers and their application in oil absorption. <i>Nanoscale</i> , 2012 , 4, 176-82	7.7	168
183	Ultrahigh-Water-Content, Superelastic, and Shape-Memory Nanofiber-Assembled Hydrogels Exhibiting Pressure-Responsive Conductivity. <i>Advanced Materials</i> , 2017 , 29, 1700339	24	162
182	Fabrication of biomimetic superhydrophobic surfaces inspired by lotus leaf and silver ragwort leaf. <i>Nanoscale</i> , 2011 , 3, 1258-62	7.7	160

181	Daylight-driven rechargeable antibacterial and antiviral nanofibrous membranes for bioprotective applications. <i>Science Advances</i> , 2018 , 4, eaar5931	14.3	151
180	Anti-deformed Polyacrylonitrile/Polysulfone Composite Membrane with Binary Structures for Effective Air Filtration. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 8086-95	9.5	142
179	In situ cross-linked superwetting nanofibrous membranes for ultrafast oil/water separation. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 10137-10145	13	142
178	Carbon Nanotubes Enhanced Fluorinated Polyurethane Macroporous Membranes for Waterproof and Breathable Application. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 13538-46	9.5	139
177	Ultra-light 3D nanofibre-nets binary structured nylon 6/polyacrylonitrile membranes for efficient filtration of fine particulate matter. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 23946-23954	13	130
176	Hierarchically structured polysulfone/titania fibrous membranes with enhanced air filtration performance. <i>Journal of Colloid and Interface Science</i> , 2014 , 417, 18-26	9.3	128
175	Electreted polyetherimide-silica fibrous membranes for enhanced filtration of fine particles. <i>Journal of Colloid and Interface Science</i> , 2015 , 439, 12-20	9.3	124
174	Slip-Effect Functional Air Filter for Efficient Purification of PM. <i>Scientific Reports</i> , 2016 , 6, 35472	4.9	123
173	Continuous, Spontaneous, and Directional Water Transport in the Trilayered Fibrous Membranes for Functional Moisture Wicking Textiles. <i>Small</i> , 2018 , 14, e1801527	11	121
172	Fabrication of magnetic polybenzoxazine-based carbon nanofibers with Fe ₃ O ₄ inclusions with a hierarchical porous structure for water treatment. <i>Carbon</i> , 2012 , 50, 5176-5185	10.4	120
171	Co-axial electrospun polystyrene/polyurethane fibres for oil collection from water surface. <i>Nanoscale</i> , 2013 , 5, 2745-55	7.7	120
170	Supercapacitive Iontronic Nanofabric Sensing. <i>Advanced Materials</i> , 2017 , 29, 1700253	24	113
169	Superamphiphobic nanofibrous membranes for effective filtration of fine particles. <i>Journal of Colloid and Interface Science</i> , 2014 , 428, 41-8	9.3	112
168	Synthesis of mesoporous magnetic Fe ₃ O ₄ @carbon nanofibers utilizing in situ polymerized polybenzoxazine for water purification. <i>Journal of Materials Chemistry</i> , 2012 , 22, 4619		112
167	Amphiphobic Nanofibrous Silica Mats with Flexible and High-Heat-Resistant Properties. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 916-921	3.8	111
166	Highly Integrated Polysulfone/Polyacrylonitrile/Polyamide-6 Air Filter for Multilevel Physical Sieving Airborne Particles. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 29062-29072	9.5	110
165	Microwave structured polyamide-6 nanofiber/net membrane with embedded poly(m-phenylene isophthalamide) staple fibers for effective ultrafine particle filtration. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 6149-6157	13	108
164	Robust Fluorine-Free Superhydrophobic Amino-Silicone Oil/SiO ₂ Modification of Electrospun Polyacrylonitrile Membranes for Waterproof-Breathable Application. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 15139-15147	9.5	107

163	Silica nanofibrous membranes with robust flexibility and thermal stability for high-efficiency fine particulate filtration. <i>RSC Advances</i> , 2012 , 2, 12216	3.7	100
162	Low-Resistance Dual-Purpose Air Filter Releasing Negative Ions and Effectively Capturing PM. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 12054-12063	9.5	96
161	Polyacrylonitrile/polybenzoxazine-based Fe ₃ O ₄ @carbon nanofibers: hierarchical porous structure and magnetic adsorption property. <i>Journal of Materials Chemistry</i> , 2012 , 22, 15919		96
160	Facile control of intra-fiber porosity and inter-fiber voids in electrospun fibers for selective adsorption. <i>Nanoscale</i> , 2012 , 4, 5316-20	7.7	95
159	Cellular Structured CNTs@SiO Nanofibrous Aerogels with Vertically Aligned Vessels for Salt-Resistant Solar Desalination. <i>Advanced Materials</i> , 2020 , 32, e1908269	24	94
158	Scalable Fabrication of Electrospun Nanofibrous Membranes Functionalized with Citric Acid for High-Performance Protein Adsorption. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 11819-29	9.5	92
157	Tailoring Water-Resistant and Breathable Performance of Polyacrylonitrile Nanofibrous Membranes Modified by Polydimethylsiloxane. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 27218-27226	9.5	91
156	Optimized colorimetric sensor strip for mercury(II) assay using hierarchical nanostructured conjugated polymers. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 645-652	13	88
155	A Fluffy Dual-Network Structured Nanofiber/Net Filter Enables High-Efficiency Air Filtration. <i>Advanced Functional Materials</i> , 2019 , 29, 1904108	15.6	87
154	Multifunctional flexible membranes from sponge-like porous carbon nanofibers with high conductivity. <i>Nature Communications</i> , 2019 , 10, 5584	17.4	87
153	A Controlled Design of Ripple-Like Polyamide-6 Nanofiber/Nets Membrane for High-Efficiency Air Filter. <i>Small</i> , 2017 , 13, 1603151	11	86
152	Biomimicry via Electrospinning. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2012 , 37, 94-114	10.1	84
151	Cleanable Air Filter Transferring Moisture and Effectively Capturing PM. <i>Small</i> , 2017 , 13, 1603306	11	82
150	Free-Standing Polyurethane Nanofiber/Nets Air Filters for Effective PM Capture. <i>Small</i> , 2017 , 13, 1702139		80
149	Biomimetic Multilayer Nanofibrous Membranes with Elaborated Superwettability for Effective Purification of Emulsified Oily Wastewater. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 16183-16192	9.5	80
148	Environmentally Friendly and Breathable Fluorinated Polyurethane Fibrous Membranes Exhibiting Robust Waterproof Performance. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 29302-29310	9.5	80
147	Enhanced bone formation in electrospun poly(L-lactic-co-glycolic acid)-tussah silk fibroin ultrafine nanofiber scaffolds incorporated with graphene oxide. <i>Materials Science and Engineering C</i> , 2016 , 62, 823-34	8.3	79
146	Biomimetic Fibrous Murray Membranes with Ultrafast Water Transport and Evaporation for Smart Moisture-Wicking Fabrics. <i>ACS Nano</i> , 2019 , 13, 1060-1070	16.7	77

145	Tailoring Mechanically Robust Poly(m-phenylene isophthalamide) Nanofiber/nets for Ultrathin High-Efficiency Air Filter. <i>Scientific Reports</i> , 2017 , 7, 40550	4.9	76
144	Electrospun nanofibrous chitosan membranes modified with polyethyleneimine for formaldehyde detection. <i>Carbohydrate Polymers</i> , 2014 , 108, 192-9	10.3	74
143	Breathable and Colorful Cellulose Acetate-Based Nanofibrous Membranes for Directional Moisture Transport. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 22866-22875	9.5	72
142	Polymer Template Synthesis of Flexible BaTiO ₃ Crystal Nanofibers. <i>Advanced Functional Materials</i> , 2019 , 29, 1907919	15.6	72
141	Robust polyacrylonitrile nanofibrous membrane reinforced with jute cellulose nanowhiskers for water purification. <i>Desalination</i> , 2013 , 316, 120-126	10.3	72
140	Hydrophobic Fibrous Membranes with Tunable Porous Structure for Equilibrium of Breathable and Waterproof Performance. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600516	4.6	71
139	Highly flexible, core-shell heterostructured, and visible-light-driven titania-based nanofibrous membranes for antibiotic removal and E. coli inactivation. <i>Chemical Engineering Journal</i> , 2020 , 379, 122269	14.7	71
138	Soft Zr-doped TiO Nanofibrous Membranes with Enhanced Photocatalytic Activity for Water Purification. <i>Scientific Reports</i> , 2017 , 7, 1636	4.9	70
137	3D Superelastic Scaffolds Constructed from Flexible Inorganic Nanofibers with Self-Fitting Capability and Tailorable Gradient for Bone Regeneration. <i>Advanced Functional Materials</i> , 2019 , 29, 1901407	15.6	68
136	In situ synthesis of flexible hierarchical TiO ₂ nanofibrous membranes with enhanced photocatalytic activity. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 22136-22144	13	68
135	Hierarchical structured MnO@SiO nanofibrous membranes with superb flexibility and enhanced catalytic performance. <i>Journal of Hazardous Materials</i> , 2017 , 324, 203-212	12.8	68
134	Amphiphobic fluorinated polyurethane composite microfibrillar membranes with robust waterproof and breathable performances. <i>RSC Advances</i> , 2013 , 3, 2248-2255	3.7	68
133	Hierarchical Porous Structured SiO/SnO Nanofibrous Membrane with Superb Flexibility for Molecular Filtration. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 18966-18976	9.5	67
132	Polybenzoxazine-Functionalized Melamine Sponges with Enhanced Selective Capillarity for Efficient Oil Spill Cleanup. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 40274-40285	9.5	67
131	Highly carbonylated cellulose nanofibrous membranes utilizing maleic anhydride grafting for efficient lysozyme adsorption. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 15658-66	9.5	65
130	Hierarchical Cellular Structured Ceramic Nanofibrous Aerogels with Temperature-Invariant Superelasticity for Thermal Insulation. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 29056-29064	9.5	65
129	Fluorine-Free Waterborne Coating for Environmentally Friendly, Robustly Water-Resistant, and Highly Breathable Fibrous Textiles. <i>ACS Nano</i> , 2020 , 14, 1045-1054	16.7	65
128	Spider-Web-Inspired PM Filters Based on Self-Sustained Electrostatic Nanostructured Networks. <i>Advanced Materials</i> , 2020 , 32, e2002361	24	64

127	Direct electronetting of high-performance membranes based on self-assembled 2D nanoarchitected networks. <i>Nature Communications</i> , 2019 , 10, 1458	17.4	62
126	Electrospun Nanofibrous Materials for Wound Healing. <i>Advanced Fiber Materials</i> , 2020 , 2, 212-227	10.9	62
125	A biomimetic multilayer nanofiber fabric fabricated by electrospinning and textile technology from polylactic acid and Tussah silk fibroin as a scaffold for bone tissue engineering. <i>Materials Science and Engineering C</i> , 2016 , 67, 599-610	8.3	61
124	Flexible Hierarchical ZrO Nanoparticle-Embedded SiO Nanofibrous Membrane as a Versatile Tool for Efficient Removal of Phosphate. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 34668-34676	9.5	59
123	Investigation of silica nanoparticle distribution in nanoporous polystyrene fibers. <i>Soft Matter</i> , 2011 , 7, 8376	3.6	59
122	Ultrahigh Metal-Organic Framework Loading and Flexible Nanofibrous Membranes for Efficient CO Capture with Long-Term, Ultrastable Recyclability. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 34802-34810	8.5	58
121	Label-free ultrasensitive colorimetric detection of copper(II) ions utilizing polyaniline/polyamide-6 nano-fiber/net sensor strips. <i>Journal of Materials Chemistry</i> , 2011 , 21, 13345		56
120	Flexible and Washable Poly(Ionic Liquid) Nanofibrous Membrane with Moisture Proof Pressure Sensing for Real-Life Wearable Electronics. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 27200-27209	8.5	55
119	Waterproof and breathable membranes of waterborne fluorinated polyurethane modified electrospun polyacrylonitrile fibers. <i>RSC Advances</i> , 2014 , 4, 61068-61076	3.7	55
118	Biocidal and Rechargeable -Halamine Nanofibrous Membranes for Highly Efficient Water Disinfection. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 854-862	5.5	54
117	In situ Synthesis of Biomimetic Silica Nanofibrous Aerogels with Temperature-Invariant Superelasticity over One Million Compressions. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 8285-8292	16.4	54
116	Soft BiOBr@TiO ₂ nanofibrous membranes with hierarchical heterostructures as efficient and recyclable visible-light photocatalysts. <i>Environmental Science: Nano</i> , 2018 , 5, 2631-2640	7.1	52
115	Thermostable and nonflammable silica/polyetherimide/polyurethane nanofibrous separators for high power lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 10551-10558	13	51
114	Highly Efficient, Transparent, and Multifunctional Air Filters Using Self-Assembled 2D Nanoarchitected Fibrous Networks. <i>ACS Nano</i> , 2019 , 13, 13501-13512	16.7	51
113	Nanonet-structured poly(m-phenylene isophthalamide)/polyurethane membranes with enhanced thermostability and wettability for high power lithium ion batteries. <i>RSC Advances</i> , 2015 , 5, 55478-55485	3.7	49
112	Electrospun Nanofibrous Membranes: An Effective Arsenal for the Purification of Emulsified Oily Wastewater. <i>Advanced Functional Materials</i> , 2020 , 30, 2002192	15.6	49
111	Rechargeable Antibacterial N-Halamine Films with Antifouling Function for Food Packaging Applications. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 17814-17822	9.5	45
110	A general strategy for fabricating flexible magnetic silica nanofibrous membranes with multifunctionality. <i>Chemical Communications</i> , 2015 , 51, 12521-4	5.8	45

109	Elastic and hierarchical porous carbon nanofibrous membranes incorporated with NiFe ₂ O ₄ nanocrystals for highly efficient capacitive energy storage. <i>Nanoscale</i> , 2016 , 8, 2195-204	7.7	44
108	Human Skin-Like, Robust Waterproof, and Highly Breathable Fibrous Membranes with Short Perfluorobutyl Chains for Eco-Friendly Protective Textiles. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 30887-30894	9.5	44
107	Hydrophobic polyvinylidene fluoride fibrous membranes with simultaneously water/windproof and breathable performance. <i>RSC Advances</i> , 2016 , 6, 87820-87827	3.7	43
106	Novel Inorganic-Based N-Halamine Nanofibrous Membranes As Highly Effective Antibacterial Agent for Water Disinfection. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 44209-44215	9.5	42
105	Flexible and Highly Temperature Resistant Polynanocrystalline Zirconia Nanofibrous Membranes Designed for Air Filtration. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 2760-2768	3.8	40
104	CoO/carbon composite nanofibrous membrane enabled high-efficiency electromagnetic wave absorption. <i>Scientific Reports</i> , 2018 , 8, 12402	4.9	40
103	A reverse micelle strategy for fabricating magnetic lipase-immobilized nanoparticles with robust enzymatic activity. <i>Scientific Reports</i> , 2017 , 7, 9806	4.9	40
102	Free-standing, spider-web-like polyamide/carbon nanotube composite nanofibrous membrane impregnated with polyethyleneimine for CO ₂ capture. <i>Composites Communications</i> , 2017 , 6, 41-47	6.7	39
101	Novel fluorinated polyurethane decorated electrospun silica nanofibrous membranes exhibiting robust waterproof and breathable performances. <i>RSC Advances</i> , 2013 , 3, 7562	3.7	39
100	Conductive and Elastic TiO ₂ Nanofibrous Aerogels: A New Concept toward Self-Supported Electrocatalysts with Superior Activity and Durability. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 23252-23260	16.4	38
99	Balsam-Pear-Skin-Like Porous Polyacrylonitrile Nanofibrous Membranes Grafted with Polyethyleneimine for Postcombustion CO Capture. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 41087-41098	9.5	37
98	Biomimetic and Superelastic Silica Nanofibrous Aerogels with Rechargeable Bactericidal Function for Antifouling Water Disinfection. <i>ACS Nano</i> , 2020 , 14, 8975-8984	16.7	37
97	Flexible FeO@Carbon Nanofibers Hierarchically Assembled with MnO Particles for High-Performance Supercapacitor Electrodes. <i>Scientific Reports</i> , 2017 , 7, 15153	4.9	37
96	Ultrastrong, Superelastic, and Lamellar Multiarch Structured ZrO ₂ -AlO ₃ Nanofibrous Aerogels with High-Temperature Resistance over 1300 °C. <i>ACS Nano</i> , 2020 , 14, 15616-15625	16.7	37
95	Multilevel porous structured polyvinylidene fluoride/polyurethane fibrous membranes for ultrahigh waterproof and breathable application. <i>Composites Communications</i> , 2017 , 6, 63-67	6.7	36
94	Novel fluorinated polybenzoxazine-silica films: chemical synthesis and superhydrophobicity. <i>RSC Advances</i> , 2012 , 2, 12804	3.7	36
93	Silica nanofibrous membranes with ultra-softness and enhanced tensile strength for thermal insulation. <i>RSC Advances</i> , 2015 , 5, 6027-6032	3.7	35
92	Semi-Interpenetrating Polymer Network Biomimetic Structure Enables Superelastic and Thermostable Nanofibrous Aerogels for Cascade Filtration of PM _{2.5} . <i>Advanced Functional Materials</i> , 2020 , 30, 1910426	15.6	34

91	Nanofiber-Based Hydrogels: Controllable Synthesis and Multifunctional Applications. <i>Macromolecular Rapid Communications</i> , 2018 , 39, e1800058	4.8	34
90	Surface engineering of titanium alloy substrates with multilayered biomimetic hierarchical films to regulate the growth behaviors of osteoblasts. <i>Acta Biomaterialia</i> , 2014 , 10, 4525-36	10.8	34
89	Fluorinated polyurethane macroporous membranes with waterproof, breathable and mechanical performance improved by lithium chloride. <i>RSC Advances</i> , 2015 , 5, 79807-79814	3.7	33
88	Polybenzoxazine-based highly porous carbon nanofibrous membranes hybridized by tin oxide nanoclusters: durable mechanical elasticity and capacitive performance. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 7795-7804	13	33
87	Large-scale fabrication of highly aligned poly(m-phenylene isophthalamide) nanofibers with robust mechanical strength. <i>RSC Advances</i> , 2014 , 4, 45760-45767	3.7	32
86	Nickel Ferrite Nanoparticles Anchored onto Silica Nanofibers for Designing Magnetic and Flexible Nanofibrous Membranes. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 20200-7	9.5	31
85	Mechanically Robust and Transparent N-Halamine Grafted PVA-co-PE Films with Renewable Antimicrobial Activity. <i>Macromolecular Bioscience</i> , 2017 , 17, 1600304	5.5	29
84	Model derivation and validation for 2D polymeric nanonets: Origin, evolution, and regulation. <i>Polymer</i> , 2015 , 74, 182-192	3.9	29
83	Multi-functional flexible 2D carbon nanostructured networks. <i>Nature Communications</i> , 2020 , 11, 5134	17.4	29
82	Personalized Reusable Face Masks with Smart Nano-Assisted Destruction of Pathogens for COVID-19: A Visionary Road. <i>Chemistry - A European Journal</i> , 2021 , 27, 6112-6130	4.8	29
81	Reed Leaves Inspired Silica Nanofibrous Aerogels with Parallel-Arranged Vessels for Salt-Resistant Solar Desalination. <i>ACS Nano</i> , 2021 ,	16.7	28
80	A Biomimetic Transpiration Textile for Highly Efficient Personal Drying and Cooling. <i>Advanced Functional Materials</i> , 2021 , 31, 2008705	15.6	28
79	An ultrathin bacterial cellulose membrane with a Voronoi-net structure for low pressure and high flux microfiltration. <i>Nanoscale</i> , 2019 , 11, 17851-17859	7.7	27
78	Ultrafine Silk-Derived Nanofibrous Membranes Exhibiting Effective Lysozyme Adsorption. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 8777-8784	8.3	27
77	Polyvinyl Butyral Modified Polyvinylidene Fluoride Breathable/Waterproof Nanofibrous Membranes with Enhanced Mechanical Performance. <i>Macromolecular Materials and Engineering</i> , 2017 , 302,	3.9	27
76	Electrospinning: A versatile strategy for mimicking natural creatures. <i>Composites Communications</i> , 2018 , 10, 175-185	6.7	27
75	Environmentally benign modification of breathable nanofibrous membranes exhibiting superior waterproof and photocatalytic self-cleaning properties. <i>Nanoscale Horizons</i> , 2019 , 4, 867-873	10.8	26
74	Assembly of silica aerogels within silica nanofibers: towards a super-insulating flexible hybrid aerogel membrane. <i>RSC Advances</i> , 2015 , 5, 91813-91820	3.7	25

73	Temperature-invariant superelastic, fatigue resistant, and binary-network structured silica nanofibrous aerogels for thermal superinsulation. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 7775-7783	13	25
72	N-Halamine Functionalized Electrospun Poly(Vinyl Alcohol-co-Ethylene) Nanofibrous Membranes with Rechargeable Antibacterial Activity for Bioprotective Applications. <i>Advanced Fiber Materials</i> , 2019 , 1, 126-136	10.9	25
71	Free-standing zirconia nanofibrous membranes with robust flexibility for corrosive liquid filtration. <i>RSC Advances</i> , 2014 , 4, 2756-2763	3.7	25
70	Cobalt oxide nanoparticles embedded in flexible carbon nanofibers: attractive material for supercapacitor electrodes and CO ₂ adsorption. <i>RSC Advances</i> , 2016 , 6, 52171-52179	3.7	25
69	Brittle-flexible-brittle transition in nanocrystalline zirconia nanofibrous membranes. <i>CrystEngComm</i> , 2016 , 18, 1139-1146	3.3	24
68	Tailoring waterproof and breathable properties of environmentally friendly electrospun fibrous membranes by optimizing porous structure and surface wettability. <i>Composites Communications</i> , 2019 , 15, 40-45	6.7	23
67	Visible-light-driven, hierarchically heterostructured, and flexible silver/bismuth oxyiodide/titania nanofibrous membranes for highly efficient water disinfection. <i>Journal of Colloid and Interface Science</i> , 2019 , 555, 636-646	9.3	23
66	Highly flexible, mesoporous structured, and metallic Cu-doped C/SiO ₂ nanofibrous membranes for efficient catalytic oxidative elimination of antibiotic pollutants. <i>Nanoscale</i> , 2019 , 11, 14844-14856	7.7	23
65	A versatile method for fabricating ion-exchange hydrogel nanofibrous membranes with superb biomolecule adsorption and separation properties. <i>Journal of Colloid and Interface Science</i> , 2017 , 506, 442-451	9.3	23
64	In situ synthesis of flexible magnetic Fe ₂ O ₃ @SiO ₂ nanofibrous membranes. <i>Nanoscale</i> , 2014 , 6, 2102-57.7		21
63	Facile fabrication of fluorine-free breathable poly(methylhydrosiloxane)/polyurethane fibrous membranes with enhanced water-resistant capability. <i>Journal of Colloid and Interface Science</i> , 2019 , 556, 541-548	9.3	19
62	Hierarchical porous carbon nanofibrous membranes with an enhanced shape memory property for effective adsorption of proteins. <i>RSC Advances</i> , 2015 , 5, 64318-64325	3.7	19
61	In situ green synthesis of rechargeable antibacterial N-halamine grafted poly(vinyl alcohol) nanofibrous membranes for food packaging applications. <i>Composites Communications</i> , 2020 , 17, 147-153	6.7	19
60	Interweaved Cellular Structured Ceramic Nanofibrous Aerogels with Superior Bendability and Compressibility. <i>Advanced Functional Materials</i> , 2020 , 30, 2005928	15.6	19
59	Design and fabrication of a highly sensitive and naked-eye distinguishable colorimetric biosensor for chloramphenicol detection by using ELISA on nanofibrous membranes. <i>Talanta</i> , 2020 , 217, 121054	6.2	18
58	Photoactivities of Vitamin K Derivatives and Potential Applications as Daylight-Activated Antimicrobial Agents. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 18493-18504	8.3	18
57	Ultrathin Cellulose Voronoi-Nanonet Membranes Enable High-Flux and Energy-Saving Water Purification. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 31852-31862	9.5	17
56	A facile method of synthesizing size-controlled hollow cyanoacrylate nanoparticles for transparent superhydrophobic/oleophobic surfaces. <i>RSC Advances</i> , 2016 , 6, 15877-15883	3.7	17

55	Stable low resistance air filter under high humidity endowed by self-emission far-infrared for effective PM2.5 capture. <i>Composites Communications</i> , 2017 , 6, 29-33	6.7	17
54	Rechargeable polyamide-based N-halamine nanofibrous membranes for renewable, high-efficiency, and antibacterial respirators. <i>Nanoscale Advances</i> , 2019 , 1, 1948-1956	5.1	15
53	Stretchable PDMS Embedded Fibrous Membranes Based on an Ethanol Solvent System for Waterproof and Breathable Applications.. <i>ACS Applied Bio Materials</i> , 2019 , 2, 5949-5956	4.1	15
52	Antibiofilm Effect of Poly(Vinyl Alcohol--Ethylene) Halamine Film against <i>Listeria innocua</i> and <i>Escherichia coli</i> O157:H7. <i>Applied and Environmental Microbiology</i> , 2017 , 83,	4.8	15
51	Rechargeable Antibacterial Polysulfonamide-Based -Halamine Nanofibrous Membranes for Bioprotective Applications.. <i>ACS Applied Bio Materials</i> , 2019 , 2, 3668-3677	4.1	14
50	High-performance filters from biomimetic wet-adhesive nanoarchitected networks. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 18955-18962	13	14
49	Antibacterial and antiviral N-halamine nanofibrous membranes with nanonet structure for bioprotective applications. <i>Composites Communications</i> , 2021 , 24, 100668	6.7	14
48	Scalable fabrication of bimetal modified polyacrylonitrile (PAN) nanofibrous membranes for photocatalytic degradation of dyes. <i>Journal of Colloid and Interface Science</i> , 2020 , 559, 134-142	9.3	14
47	Self-Assembly of Perovskite Crystals Anchored Al O -La O Nanofibrous Membranes with Robust Flexibility and Luminescence. <i>Small</i> , 2018 , 14, e1801963	11	14
46	Sensitive metal ion sensors based on fibrous polystyrene membranes modified by polyethyleneimine. <i>RSC Advances</i> , 2012 , 2, 1373-1378	3.7	13
45	Stretchable and Superelastic Fibrous Sponges Tailored by "Stiff-Soft" Bicomponent Electrospun Fibers for Warmth Retention. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 27562-27571	9.5	13
44	Nanofibrous hydrogels embedded with phase-change materials: Temperature-responsive dressings for accelerating skin wound healing. <i>Composites Communications</i> , 2021 , 25, 100752	6.7	13
43	Flexible, mesoporous, and monodispersed metallic cobalt-embedded inorganic nanofibrous membranes enable ultra-fast and high-efficiency killing of bacteria. <i>Chemical Engineering Journal</i> , 2020 , 382, 122909	14.7	13
42	Shapeable, Underwater Superelastic, and Highly Phosphorylated Nanofibrous Aerogels for Large-Capacity and High-Throughput Protein Separation. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 44874-44885	9.5	12
41	Antibacterial Activity of Photoactive Silk Fibroin/Cellulose Acetate Blend Nanofibrous Membranes against <i>Escherichia coli</i> . <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 16775-16780	8.3	12
40	Rechargeable Photoactive Silk-Derived Nanofibrous Membranes for Degradation of Reactive Red 195. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 986-993	8.3	12
39	Nanoparticle-doped polystyrene/polyacrylonitrile nanofiber membrane with hierarchical structure as promising protein hydrophobic interaction chromatography media. <i>Composites Communications</i> , 2019 , 16, 33-40	6.7	11
38	Thorn-like flexible AgCO/TiO nanofibers as hierarchical heterojunction photocatalysts for efficient visible-light-driven bacteria-killing. <i>Journal of Colloid and Interface Science</i> , 2020 , 560, 681-689	9.3	11

37	Antibacterial N-halamine fibrous materials. <i>Composites Communications</i> , 2020 , 22, 100487	6.7	10
36	Functionalized nanofibrous nylon 6 membranes for efficient reusable and selective separation of laccase enzyme. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020 , 194, 111190	6	9
35	Interlocked Dual-Network and Superelastic Electrospun Fibrous Sponges for Efficient Low-Frequency Noise Absorption. <i>Small Structures</i> , 2020 , 1, 2000004	8.7	9
34	Breathable, stretchable and adhesive nanofibrous hydrogels as wound dressing materials. <i>Engineered Regeneration</i> , 2021 , 2, 63-63	5.2	9
33	Scalable fabrication of sulfated silk fibroin nanofibrous membranes for efficient lipase adsorption and recovery. <i>International Journal of Biological Macromolecules</i> , 2018 , 111, 738-745	7.9	8
32	Superelastic, lightweight, and flame-retardant 3D fibrous sponge fabricated by one-step electrospinning for heat retention. <i>Composites Communications</i> , 2021 , 25, 100681	6.7	8
31	Fabricating durable, fluoride-free, water repellency cotton fabrics with CPDMS. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 46396	2.9	7
30	Flexible ceramic nanofibrous sponges with hierarchically entangled graphene networks enable noise absorption. <i>Nature Communications</i> , 2021 , 12, 6599	17.4	7
29	Ultrathin Zirconium Hydroxide Nanosheet-Assembled Nanofibrous Membranes for Rapid Degradation of Chemical Warfare Agents. <i>Small</i> , 2021 , 17, e2101639	11	7
28	Tailoring Nanonets-Engineered Superflexible Nanofibrous Aerogels with Hierarchical Cage-Like Architecture Enables Renewable Antimicrobial Air Filtration. <i>Advanced Functional Materials</i> , 2107223	15.6	7
27	P-doped WO flowers fixed on a TiO nanofibrous membrane for enhanced electroreduction of N. <i>Chemical Communications</i> , 2020 , 56, 12937-12940	5.8	6
26	Asymmetric Wettable, Waterproof, and Breathable Nanofibrous Membranes for Wound Dressings.. <i>ACS Applied Bio Materials</i> , 2021 , 4, 3287-3293	4.1	6
25	Green and antimicrobial 5-bromosalicylic acid/polyvinyl butyral nanofibrous membranes enable interception-sterilization-integrated bioprotection. <i>Composites Communications</i> , 2021 , 25, 100720	6.7	6
24	Ultralight and superelastic fibrous sponges with effective heat preservation and photo-thermal conversion for personal cold protection. <i>Composites Communications</i> , 2021 , 25, 100766	6.7	6
23	In situ Synthesis of Biomimetic Silica Nanofibrous Aerogels with Temperature-Invariant Superelasticity over One Million Compressions. <i>Angewandte Chemie</i> , 2020 , 132, 8362-8369	3.6	5
22	Highly Dispersive Carbon Nanotube/Alumina Composites and their Electrospun Nanofibers. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 2583-2589	3.8	5
21	Leaf vein-inspired microfiltration membrane based on ultrathin nanonetworks. <i>Environmental Science: Nano</i> , 2020 , 7, 2644-2653	7.1	5
20	Ultralight and Mechanically Robust Fibrous Sponges Tailored by Semi-Interpenetrating Polymer Networks for Warmth Retention. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 18165-18174	9.5	5

19	Scalable fabrication of rechargeable photoactive cellulose nanofibrous membranes for efficient degradation of dyes. <i>Cellulose</i> , 2020 , 27, 5285-5296	5.5	5
18	2D gallium molybdenum selenide grown on a hollow carbon nanofibrous aerogel for high-efficiency electroreduction of nitrogen: Optimized basal plane activity via selenium vacancy modulation. <i>Applied Catalysis B: Environmental</i> , 2021 , 292, 120175	21.8	5
17	All-Ceramic and Elastic Aerogels with Nanofibrous-Granular Binary Synergistic Structure for Thermal Superinsulation.. <i>ACS Nano</i> , 2022 ,	16.7	5
16	Programmable Building of Radially Gradient Nanofibrous Patches Enables Deployment, Bursting Bearing Capability, and Stem Cell Recruitment. <i>Advanced Functional Materials</i> , 2109833	15.6	4
15	Elastic and highly fatigue resistant ZrO ₂ -SiO ₂ nanofibrous aerogel with low energy dissipation for thermal insulation. <i>Chemical Engineering Journal</i> , 2021 , 133628	14.7	4
14	Tailoring Nanoporous-Engineered Sponge Fiber Molecular Sieves with Ternary-Nested Architecture for Precise Molecular Separation. <i>ACS Nano</i> , 2021 ,	16.7	4
13	Fibrous Materials for Antimicrobial Applications 2020 , 927-951		2
12	Chlorine Rechargeable Halamine Biocidal Alginate/Polyacrylamide Hydrogel Beads for Improved Sanitization of Fresh Produce. <i>Journal of Agricultural and Food Chemistry</i> , 2021 , 69, 13323-13330	5.7	2
11	Amide-halamine/silica composite nanofibrous membranes with rechargeable chlorination function for mercaptan degradation. <i>Composites Communications</i> , 2021 , 25, 100729	6.7	2
10	Antibacterial and antiviral nanofibrous membranes with renewable oxidative function for high-efficiency and super-throughput water disinfection. <i>Composites Communications</i> , 2021 , 27, 100875	6.7	2
9	Direct synthesis of highly stretchable ceramic nanofibrous aerogels via 3D reaction electrospinning.. <i>Nature Communications</i> , 2022 , 13, 2637	17.4	2
8	Superelastic and Fire-Retardant Nano-/Microfibrous Sponges for High-Efficiency Warmth Retention. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 58027-58035	9.5	1
7	Super strong, shear resistant, and highly elastic lamellar structured ceramic nanofibrous aerogels for thermal insulation. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 27415-27423	13	1
6	Nanoflake-Engineered Zirconic Fibrous Aerogels with Parallel-Arrayed Conduits for Fast Nerve Agent Degradation. <i>Nano Letters</i> , 2021 , 21, 8839-8847	11.5	1
5	Diffusion of Protein Molecules through Microporous Nanofibrous Polyacrylonitrile Membranes. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 1618-1627	4.3	1
4	Molecular Cage-Mediated Radial Gradient Porous Sponge Nanofiber for Selective Adsorption of a Mustard Gas Simulant. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 47835-47844	9.5	1
3	Copper hydroxide nanosheets-assembled nanofibrous membranes for anti-biofouling water disinfection.. <i>Journal of Colloid and Interface Science</i> , 2021 , 611, 1-8	9.3	0
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- 1 Multiphase ceramic nanofibers with super-elasticity from [96]600]. *Nano Today*, **2022**, 44, 101455 17.9 ○