

Bin Ding

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

328
papers

18,387
citations

75
h-index

120
g-index

348
ext. papers

22,921
ext. citations

9.9
avg, IF

7.52
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 328 | Ultralight nanofibre-assembled cellular aerogels with superelasticity and multifunctionality. <i>Nature Communications</i> , 2014 , 5, 5802 | 17.4 | 675 |
| 327 | 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 |
| 326 | Electrospun nanomaterials for ultrasensitive sensors. <i>Materials Today</i> , 2010 , 13, 16-27 | 21.8 | 502 |
| 325 | 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 |
| 324 | 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 |
| 323 | Engineering biomimetic superhydrophobic surfaces of electrospun nanomaterials. <i>Nano Today</i> , 2011 , 6, 510-530 | 17.9 | 366 |
| 322 | Ultralight Biomass-Derived Carbonaceous Nanofibrous Aerogels with Superelasticity and High Pressure-Sensitivity. <i>Advanced Materials</i> , 2016 , 28, 9512-9518 | 24 | 310 |
| 321 | Electrospun nanofibrous materials: a versatile medium for effective oil/water separation. <i>Materials Today</i> , 2016 , 19, 403-414 | 21.8 | 304 |
| 320 | 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 |
| 319 | Ultralight and fire-resistant ceramic nanofibrous aerogels with temperature-invariant superelasticity. <i>Science Advances</i> , 2018 , 4, eaas8925 | 14.3 | 243 |
| 318 | An in situ polymerization approach for the synthesis of superhydrophobic and superoleophilic nanofibrous membranes for oil-water separation. <i>Nanoscale</i> , 2012 , 4, 7847-54 | 7.7 | 234 |
| 317 | Direct fabrication of highly nanoporous polystyrene fibers via electrospinning. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 521-8 | 9.5 | 227 |
| 316 | Porous materials for sound absorption. <i>Composites Communications</i> , 2018 , 10, 25-35 | 6.7 | 215 |
| 315 | In situ polymerized superhydrophobic and superoleophilic nanofibrous membranes for gravity driven oil-water separation. <i>Nanoscale</i> , 2013 , 5, 11657-64 | 7.7 | 201 |
| 314 | Formation of novel 2D polymer nanowebs via electrospinning. <i>Nanotechnology</i> , 2006 , 17, 3685-3691 | 3.4 | 195 |
| 313 | Multilevel structured polyacrylonitrile/silica nanofibrous membranes for high-performance air filtration. <i>Separation and Purification Technology</i> , 2014 , 126, 44-51 | 8.3 | 170 |
| 312 | 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 |

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|-----------------|---|------|-----|
| 3 ¹¹ | Electret Polyvinylidene Fluoride Nanofibers Hybridized by Polytetrafluoroethylene Nanoparticles for High-Efficiency Air Filtration. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 23985-94 | 9.5 | 167 |
| 3 ¹⁰ | Ultra-high-Water-Content, Superelastic, and Shape-Memory Nanofiber-Assembled Hydrogels Exhibiting Pressure-Responsive Conductivity. <i>Advanced Materials</i> , 2017 , 29, 1700339 | 24 | 162 |
| 3 ⁰⁹ | Sandwich-structured PVdF/PMIA/PVdF nanofibrous separators with robust mechanical strength and thermal stability for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 14511-14518 | 13 | 162 |
| 3 ⁰⁸ | Fabrication of biomimetic superhydrophobic surfaces inspired by lotus leaf and silver ragwort leaf. <i>Nanoscale</i> , 2011 , 3, 1258-62 | 7.7 | 160 |
| 3 ⁰⁷ | Tunable fabrication of three-dimensional polyamide-66 nano-fiber/nets for high efficiency fine particulate filtration. <i>Journal of Materials Chemistry</i> , 2012 , 22, 1445-1452 | | 153 |
| 3 ⁰⁶ | Daylight-driven rechargeable antibacterial and antiviral nanofibrous membranes for bioprotective applications. <i>Science Advances</i> , 2018 , 4, eaar5931 | 14.3 | 151 |
| 3 ⁰⁵ | Gravity driven separation of emulsified oil/water mixtures utilizing in situ polymerized superhydrophobic and superoleophilic nanofibrous membranes. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 14071 | 13 | 149 |
| 3 ⁰⁴ | Super-hydrophobic surfaces of layer-by-layer structured film-coated electrospun nanofibrous membranes. <i>Nanotechnology</i> , 2007 , 18, 165607 | 3.4 | 144 |
| 3 ⁰³ | 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 |
| 3 ⁰² | 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 |
| 3 ⁰¹ | A highly sensitive humidity sensor based on a nanofibrous membrane coated quartz crystal microbalance. <i>Nanotechnology</i> , 2010 , 21, 055502 | 3.4 | 140 |
| 3 ⁰⁰ | 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 |
| 299 | Nanofibrous membrane constructed wearable triboelectric nanogenerator for high performance biomechanical energy harvesting. <i>Nano Energy</i> , 2017 , 36, 341-348 | 17.1 | 134 |
| 298 | 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 |
| 297 | Efficient and reusable polyamide-56 nanofiber/nets membrane with bimodal structures for air filtration. <i>Journal of Colloid and Interface Science</i> , 2015 , 457, 203-11 | 9.3 | 124 |
| 296 | 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 |
| 295 | Slip-Effect Functional Air Filter for Efficient Purification of PM. <i>Scientific Reports</i> , 2016 , 6, 35472 | 4.9 | 123 |
| 294 | Continuous, Spontaneous, and Directional Water Transport in the Trilayered Fibrous Membranes for Functional Moisture Wicking Textiles. <i>Small</i> , 2018 , 14, e1801527 | 11 | 121 |

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|-----|---|------|-----|
| 293 | 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 |
| 292 | Co-axial electrospun polystyrene/polyurethane fibres for oil collection from water surface. <i>Nanoscale</i> , 2013 , 5, 2745-55 | 7.7 | 120 |
| 291 | Tortuously structured polyvinyl chloride/polyurethane fibrous membranes for high-efficiency fine particulate filtration. <i>Journal of Colloid and Interface Science</i> , 2013 , 398, 240-6 | 9.3 | 119 |
| 290 | Highly flexible, breathable, tailorable and washable power generation fabrics for wearable electronics. <i>Nano Energy</i> , 2019 , 58, 750-758 | 17.1 | 112 |
| 289 | Superamphiphobic nanofibrous membranes for effective filtration of fine particles. <i>Journal of Colloid and Interface Science</i> , 2014 , 428, 41-8 | 9.3 | 112 |
| 288 | 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 |
| 287 | 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 |
| 286 | Sandwich structured polyamide-6/polyacrylonitrile nanonets/bead-on-string composite membrane for effective air filtration. <i>Separation and Purification Technology</i> , 2015 , 152, 14-22 | 8.3 | 109 |
| 285 | 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 |
| 284 | 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 |
| 283 | Electrospun flexible nanofibrous membranes for oil/water separation. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 20075-20102 | 13 | 105 |
| 282 | A Highly Stretchable Nanofiber-Based Electronic Skin with Pressure-, Strain-, and Flexion-Sensitive Properties for Health and Motion Monitoring. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 42951-42960 | 9.5 | 104 |
| 281 | Highly sensitive, self-powered and wearable electronic skin based on pressure-sensitive nanofiber woven fabric sensor. <i>Scientific Reports</i> , 2017 , 7, 12949 | 4.9 | 103 |
| 280 | Titanium dioxide nanofibers prepared by using electrospinning method. <i>Fibers and Polymers</i> , 2004 , 5, 105-109 | 2 | 101 |
| 279 | Humidity-resisting triboelectric nanogenerator for high performance biomechanical energy harvesting. <i>Nano Energy</i> , 2017 , 40, 282-288 | 17.1 | 100 |
| 278 | 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 |
| 277 | All-Fiber Structured Electronic Skin with High Elasticity and Breathability. <i>Advanced Functional Materials</i> , 2020 , 30, 1908411 | 15.6 | 99 |
| 276 | 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 |

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|-----|--|------|----|
| 275 | 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 |
| 274 | Cellular Structured CNTs@SiO Nanofibrous Aerogels with Vertically Aligned Vessels for Salt-Resistant Solar Desalination. <i>Advanced Materials</i> , 2020 , 32, e1908269 | 24 | 94 |
| 273 | 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 |
| 272 | Multilayered fiber-based triboelectric nanogenerator with high performance for biomechanical energy harvesting. <i>Nano Energy</i> , 2018 , 53, 726-733 | 17.1 | 92 |
| 271 | 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 |
| 270 | 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 |
| 269 | A Fluffy Dual-Network Structured Nanofiber/Net Filter Enables High-Efficiency Air Filtration. <i>Advanced Functional Materials</i> , 2019 , 29, 1904108 | 15.6 | 87 |
| 268 | Highly shape adaptive fiber based electronic skin for sensitive joint motion monitoring and tactile sensing. <i>Nano Energy</i> , 2020 , 69, 104429 | 17.1 | 87 |
| 267 | Multifunctional flexible membranes from sponge-like porous carbon nanofibers with high conductivity. <i>Nature Communications</i> , 2019 , 10, 5584 | 17.4 | 87 |
| 266 | A Controlled Design of Ripple-Like Polyamide-6 Nanofiber/Nets Membrane for High-Efficiency Air Filter. <i>Small</i> , 2017 , 13, 1603151 | 11 | 86 |
| 265 | Electro-netting: fabrication of two-dimensional nano-nets for highly sensitive trimethylamine sensing. <i>Nanoscale</i> , 2011 , 3, 911-5 | 7.7 | 83 |
| 264 | Cleanable Air Filter Transferring Moisture and Effectively Capturing PM. <i>Small</i> , 2017 , 13, 1603306 | 11 | 82 |
| 263 | Layer-by-layer structured films of TiO ₂ nanoparticles and poly(acrylic acid) on electrospun nanofibres. <i>Nanotechnology</i> , 2004 , 15, 913-917 | 3.4 | 82 |
| 262 | Stable Confinement of Black Phosphorus Quantum Dots on Black Tin Oxide Nanotubes: A Robust, Double-Active Electrocatalyst toward Efficient Nitrogen Fixation. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 16439-16444 | 16.4 | 81 |
| 261 | Free-Standing Polyurethane Nanofiber/Nets Air Filters for Effective PM Capture. <i>Small</i> , 2017 , 13, 1702139 | 11 | 80 |
| 260 | 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 |
| 259 | Carbon-Nanoplated CoS@TiO Nanofibrous Membrane: An Interface-Engineered Heterojunction for High-Efficiency Electrocatalytic Nitrogen Reduction. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 18903-18907 | 16.4 | 80 |
| 258 | Superwetting hierarchical porous silica nanofibrous membranes for oil/water microemulsion separation. <i>Nanoscale</i> , 2014 , 6, 12445-9 | 7.7 | 80 |

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| 257 | 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 |
| 256 | Synthesis of superamphiphobic breathable membranes utilizing SiO ₂ nanoparticles decorated fluorinated polyurethane nanofibers. <i>Nanoscale</i> , 2012 , 4, 7549-56 | 7.7 | 77 |
| 255 | 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 |
| 254 | 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 |
| 253 | Elastic and well-aligned ceramic LLZO nanofiber based electrolytes for solid-state lithium batteries. <i>Energy Storage Materials</i> , 2019 , 23, 306-313 | 19.4 | 75 |
| 252 | Electrospun nanofibers for high-performance air filtration. <i>Composites Communications</i> , 2019 , 15, 6-19 | 6.7 | 74 |
| 251 | Nanoporous ultra-high specific surface inorganic fibres. <i>Nanotechnology</i> , 2007 , 18, 315602 | 3.4 | 73 |
| 250 | 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 |
| 249 | Polymer Template Synthesis of Flexible BaTiO ₃ Crystal Nanofibers. <i>Advanced Functional Materials</i> , 2019 , 29, 1907919 | 15.6 | 72 |
| 248 | Robust polyacrylonitrile nanofibrous membrane reinforced with jute cellulose nanowhiskers for water purification. <i>Desalination</i> , 2013 , 316, 120-126 | 10.3 | 72 |
| 247 | 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 |
| 246 | One-step electro-spinning/netting technique for controllably preparing polyurethane nano-fiber/net. <i>Macromolecular Rapid Communications</i> , 2011 , 32, 1729-34 | 4.8 | 71 |
| 245 | Highly flexible, core-shell heterostructured, and visible-light-driven titania-based nanofibrous membranes for antibiotic removal and E. coil inactivation. <i>Chemical Engineering Journal</i> , 2020 , 379, 122269 | 14.7 | 71 |
| 244 | Soft Zr-doped TiO Nanofibrous Membranes with Enhanced Photocatalytic Activity for Water Purification. <i>Scientific Reports</i> , 2017 , 7, 1636 | 4.9 | 70 |
| 243 | 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 |
| 242 | 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 |
| 241 | Mixed Ionic and Electronic Conductor for Li-Metal Anode Protection. <i>Advanced Materials</i> , 2018 , 30, 1705105 | 14 | 68 |
| 240 | 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 |

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| 239 | Amphiphobic fluorinated polyurethane composite microfibrrous membranes with robust waterproof and breathable performances. <i>RSC Advances</i> , 2013 , 3, 2248-2255 | 3.7 | 68 |
| 238 | Hierarchically Rough Structured and Self-Powered Pressure Sensor Textile for Motion Sensing and Pulse Monitoring. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 1597-1605 | 9.5 | 68 |
| 237 | 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 |
| 236 | Fabrication of polymer/layered silicate intercalated nanofibrous mats and their bacterial inhibition activity. <i>Carbohydrate Polymers</i> , 2011 , 83, 973-978 | 10.3 | 67 |
| 235 | Highly Wearable, Breathable, and Washable Sensing Textile for Human Motion and Pulse Monitoring. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 19965-19973 | 9.5 | 67 |
| 234 | 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 |
| 233 | Simultaneous visual detection and removal of lead(II) ions with pyromellitic dianhydride-grafted cellulose nanofibrous membranes. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 18180-18189 | 13 | 66 |
| 232 | Thermal inter-fiber adhesion of the polyacrylonitrile/fluorinated polyurethane nanofibrous membranes with enhanced waterproof-breathable performance. <i>Separation and Purification Technology</i> , 2016 , 158, 53-61 | 8.3 | 66 |
| 231 | 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 |
| 230 | 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 |
| 229 | Functional modification of breathable polyacrylonitrile/polyurethane/TiO nanofibrous membranes with robust ultraviolet resistant and waterproof performance. <i>Journal of Colloid and Interface Science</i> , 2017 , 508, 508-516 | 9.3 | 65 |
| 228 | 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 |
| 227 | Spider-Web-Inspired PM Filters Based on Self-Sustained Electrostatic Nanostructured Networks. <i>Advanced Materials</i> , 2020 , 32, e2002361 | 24 | 64 |
| 226 | Highly flexible NiCo2O4/CNTs doped carbon nanofibers for CO2 adsorption and supercapacitor electrodes. <i>Journal of Colloid and Interface Science</i> , 2016 , 476, 87-93 | 9.3 | 63 |
| 225 | Direct electronetting of high-performance membranes based on self-assembled 2D nanoarchitected networks. <i>Nature Communications</i> , 2019 , 10, 1458 | 17.4 | 62 |
| 224 | Electrospun Nanofibrous Materials for Wound Healing. <i>Advanced Fiber Materials</i> , 2020 , 2, 212-227 | 10.9 | 62 |
| 223 | Nanoparticle decorated fibrous silica membranes exhibiting biomimetic superhydrophobicity and highly flexible properties. <i>RSC Advances</i> , 2011 , 1, 1482 | 3.7 | 61 |
| 222 | A hybrid comprised of porous carbon nanofibers and rGO for efficient electromagnetic wave absorption. <i>Carbon</i> , 2020 , 157, 703-713 | 10.4 | 60 |

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| 221 | 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 |
| 220 | 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 |
| 219 | Highly Carboxylated, Cellular Structured, and Underwater Superelastic Nanofibrous Aerogels for Efficient Protein Separation. <i>Advanced Functional Materials</i> , 2019 , 29, 1808234 | 15.6 | 58 |
| 218 | Waterproof and breathable membranes of waterborne fluorinated polyurethane modified electrospun polyacrylonitrile fibers. <i>RSC Advances</i> , 2014 , 4, 61068-61076 | 3.7 | 55 |
| 217 | 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 |
| 216 | Super hygroscopic nanofibrous membrane-based moisture pump for solar-driven indoor dehumidification. <i>Nature Communications</i> , 2020 , 11, 3302 | 17.4 | 53 |
| 215 | 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 |
| 214 | 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 |
| 213 | Polyoxometalate nanotubes from layer-by-layer coating and thermal removal of electrospun nanofibres. <i>Nanotechnology</i> , 2005 , 16, 785-790 | 3.4 | 50 |
| 212 | 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 |
| 211 | Electrospun Nanofibrous Membranes: An Effective Arsenal for the Purification of Emulsified Oily Wastewater. <i>Advanced Functional Materials</i> , 2020 , 30, 2002192 | 15.6 | 49 |
| 210 | Preparation and characterization of H ₄ SiMo ₁₂ O ₄₀ /poly(vinyl alcohol) fiber mats produced by an electrospinning method. <i>Journal of Applied Polymer Science</i> , 2003 , 89, 1573-1578 | 2.9 | 48 |
| 209 | Direct Magnetic Reinforcement of Electrocatalytic ORR/OER with Electromagnetic Induction of Magnetic Catalysts. <i>Advanced Materials</i> , 2021 , 33, e2007525 | 24 | 48 |
| 208 | Electrospun polyvinylidene fluoride/SiO ₂ nanofibrous membranes with enhanced electret property for efficient air filtration. <i>Composites Communications</i> , 2019 , 13, 57-62 | 6.7 | 47 |
| 207 | Waterproof and Breathable Electrospun Nanofibrous Membranes. <i>Macromolecular Rapid Communications</i> , 2019 , 40, e1800931 | 4.8 | 46 |
| 206 | Preparation and characterization of self-assembled polyelectrolyte multilayered films on electrospun nanofibers. <i>Thin Solid Films</i> , 2005 , 491, 23-28 | 2.2 | 46 |
| 205 | Self-organized growth of flower-like SnS ₂ and forest-like ZnS nanoarrays on nickel foam for synergistic superiority in electrochemical ammonia synthesis. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 22235-22241 | 13 | 46 |
| 204 | A general strategy for fabricating flexible magnetic silica nanofibrous membranes with multifunctionality. <i>Chemical Communications</i> , 2015 , 51, 12521-4 | 5.8 | 45 |

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| 203 | High-Performance PM0.3 Air Filters Using Self-Polarized Electret Nanofiber/Nets. <i>Advanced Functional Materials</i> , 2020 , 30, 1909554 | 15.6 | 45 |
| 202 | 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 |
| 201 | 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 |
| 200 | Hydrophobic polyvinylidene fluoride fibrous membranes with simultaneously water/windproof and breathable performance. <i>RSC Advances</i> , 2016 , 6, 87820-87827 | 3.7 | 43 |
| 199 | Energy autonomous hybrid electronic skin with multi-modal sensing capabilities. <i>Nano Energy</i> , 2020 , 78, 105208 | 17.1 | 42 |
| 198 | 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 |
| 197 | Thermoconductive, Moisture-Permeable, and Superhydrophobic Nanofibrous Membranes with Interpenetrated Boron Nitride Network for Personal Cooling Fabrics. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 32078-32089 | 9.5 | 41 |
| 196 | Synthesis of superhydrophobic silica nanofibrous membranes with robust thermal stability and flexibility via in situ polymerization. <i>Nanoscale</i> , 2012 , 4, 6581-7 | 7.7 | 41 |
| 195 | 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 |
| 194 | CoO/carbon composite nanofibrous membrane enabled high-efficiency electromagnetic wave absorption. <i>Scientific Reports</i> , 2018 , 8, 12402 | 4.9 | 40 |
| 193 | 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 |
| 192 | Novel fluorinated polyurethane decorated electrospun silica nanofibrous membranes exhibiting robust waterproof and breathable performances. <i>RSC Advances</i> , 2013 , 3, 7562 | 3.7 | 39 |
| 191 | Equipment-free chromatic determination of formaldehyde by utilizing paraosaniline-functionalized cellulose nanofibrous membranes. <i>Sensors and Actuators B: Chemical</i> , 2014 , 203, 333-339 | 8.5 | 38 |
| 190 | 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 |
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