

Xuefen Wang

List of Publications by Year in descending order

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70
papers

4,927
citations

87723

38
h-index

98622

67
g-index

70
all docs

70
docs citations

70
times ranked

5080
citing authors

#	ARTICLE	IF	CITATIONS
1	High flux ultrafiltration membranes based on electrospun nanofibrous PAN scaffolds and chitosan coating. <i>Polymer</i> , 2006, 47, 2434-2441.	1.8	503
2	High Flux Filtration Medium Based on Nanofibrous Substrate with Hydrophilic Nanocomposite Coating. <i>Environmental Science & Technology</i> , 2005, 39, 7684-7691.	4.6	348
3	Micro-nano structure poly(ether sulfones)/poly(ethyleneimine) nanofibrous affinity membranes for adsorption of anionic dyes and heavy metal ions in aqueous solution. <i>Chemical Engineering Journal</i> , 2012, 197, 88-100.	6.6	250
4	High performance ultrafiltration composite membranes based on poly(vinyl alcohol) hydrogel coating on crosslinked nanofibrous poly(vinyl alcohol) scaffold. <i>Journal of Membrane Science</i> , 2006, 278, 261-268.	4.1	225
5	Electrospun nanofiber membranes. <i>Current Opinion in Chemical Engineering</i> , 2016, 12, 62-81.	3.8	200
6	Electrospun Superhydrophobic Organic/Inorganic Composite Nanofibrous Membranes for Membrane Distillation. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 21919-21930.	4.0	186
7	Facile Immobilization of Ag Nanocluster on Nanofibrous Membrane for Oil/Water Separation. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 15272-15282.	4.0	152
8	Continuous polymer nanofiber yarns prepared by self-bundling electrospinning method. <i>Polymer</i> , 2008, 49, 2755-2761.	1.8	150
9	Dual-Biomimetic Superhydrophobic Electrospun Polystyrene Nanofibrous Membranes for Membrane Distillation. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 2423-2430.	4.0	141
10	Formation of water-resistant hyaluronic acid nanofibers by blowing-assisted electro-spinning and non-toxic post treatments. <i>Polymer</i> , 2005, 46, 4853-4867.	1.8	136
11	Development of hydrophilic barrier layer on nanofibrous substrate as composite membrane via a facile route. <i>Journal of Membrane Science</i> , 2010, 356, 110-116.	4.1	111
12	High performance thin-film nanofibrous composite hemodialysis membranes with efficient middle-molecule uremic toxin removal. <i>Journal of Membrane Science</i> , 2017, 523, 173-184.	4.1	111
13	Nanofibrous polydopamine complex membranes for adsorption of Lanthanum (III) ions. <i>Chemical Engineering Journal</i> , 2014, 244, 307-316.	6.6	106
14	Poly(ethyleneimine) nanofibrous affinity membrane fabricated via one step wet-electrospinning from poly(vinyl alcohol)-doped poly(ethyleneimine) solution system and its application. <i>Journal of Membrane Science</i> , 2011, 379, 191-199.	4.1	93
15	High performance polyamide composite nanofiltration membranes via reverse interfacial polymerization with the synergistic interaction of gelatin interlayer and trimesoyl chloride. <i>Journal of Membrane Science</i> , 2019, 588, 117192.	4.1	91
16	Electrospun Poly(acrylic acid)/Silica Hydrogel Nanofibers Scaffold for Highly Efficient Adsorption of Lanthanide Ions and Its Photoluminescence Performance. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 23995-24007.	4.0	89
17	Enhanced Mechanical Performance of Self-Bundled Electrospun Fiber Yarns via Post-Treatments. <i>Macromolecular Rapid Communications</i> , 2008, 29, 826-831.	2.0	87
18	Biodegradable PLA Nonwoven Fabric with Controllable Wettability for Efficient Water Purification and Photocatalysis Degradation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 2445-2452.	3.2	87

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19	Robust construction of a graphene oxide barrier layer on a nanofibrous substrate assisted by the flexible poly(vinylalcohol) for efficient pervaporation desalination. <i>Journal of Materials Chemistry A</i> , 2017, 5, 3558-3568.	5.2	86
20	Hierarchically structural PAN/Uio-66-(COOH) ₂ nanofibrous membranes for effective recovery of Terbium(III) and Europium(III) ions and their photoluminescence performances. <i>Chemical Engineering Journal</i> , 2019, 370, 729-741.	6.6	83
21	Self-roughened omniphobic coatings on nanofibrous membrane for membrane distillation. <i>Separation and Purification Technology</i> , 2018, 206, 14-25.	3.9	82
22	High recovery of lead ions from aminated polyacrylonitrile nanofibrous affinity membranes with micro/nano structure. <i>Journal of Hazardous Materials</i> , 2015, 295, 161-169.	6.5	80
23	Eco-friendly poly(acrylic acid)-sodium alginate nanofibrous hydrogel: A multifunctional platform for superior removal of Cu(II) and sustainable catalytic applications. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 558, 228-241.	2.3	74
24	Anionic Surfactant-Triggered Steiner Geometrical Poly(vinylidene fluoride) Nanofiber/Nanonet Air Filter for Efficient Particulate Matter Removal. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 42891-42904.	4.0	73
25	High flux low pressure thin film nanocomposite ultrafiltration membranes based on nanofibrous substrates. <i>Separation and Purification Technology</i> , 2013, 108, 143-151.	3.9	70
26	Silver Nanoparticle-Enabled Photothermal Nanofibrous Membrane for Light-Driven Membrane Distillation. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 3269-3281.	1.8	70
27	Integrated polyamide thin-film nanofibrous composite membrane regulated by functionalized interlayer for efficient water/isopropanol separation. <i>Journal of Membrane Science</i> , 2018, 553, 70-81.	4.1	67
28	Salt-tuned fabrication of novel polyamide composite nanofiltration membranes with three-dimensional turing structures for effective desalination. <i>Journal of Membrane Science</i> , 2020, 607, 118153.	4.1	63
29	Low pressure UV-cured CS/PEO/PTEGDMA/PAN thin film nanofibrous composite nanofiltration membranes for anionic dye separation. <i>Journal of Materials Chemistry A</i> , 2016, 4, 15575-15588.	5.2	62
30	Low pressure high flux thin film nanofibrous composite membranes prepared by electrospaying technique combined with solution treatment. <i>Journal of Membrane Science</i> , 2012, 394-395, 241-247.	4.1	61
31	High permeability composite nanofiltration membrane assisted by introducing TpPa covalent organic frameworks interlayer with nanorods for desalination and NaCl/dye separation. <i>Separation and Purification Technology</i> , 2021, 270, 118802.	3.9	53
32	Robust superhydrophobic dual layer nanofibrous composite membranes with a hierarchically structured amorphous polypropylene skin for membrane distillation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 11282-11297.	5.2	52
33	High filtration performance thin film nanofibrous composite membrane prepared by electrospaying technique and hot-pressing treatment. <i>Journal of Membrane Science</i> , 2016, 499, 470-479.	4.1	49
34	Highly sensitive and selective Cu ²⁺ sensor based on electrospun rhodamine dye doped poly(ether) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	4.0	45
35	Novel thin-film nanofibrous composite membranes containing directional toxin transport nanochannels for efficient and safe hemodialysis application. <i>Journal of Membrane Science</i> , 2019, 582, 151-163.	4.1	43
36	3D Porous poly(lactic acid)/regenerated cellulose composite scaffolds based on electrospun nanofibers for biomineralization. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 585, 124048.	2.3	43

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37	A novel profiled core-shell nanofibrous membrane for wastewater treatment by direct contact membrane distillation. <i>Journal of Materials Chemistry A</i> , 2016, 4, 14453-14463.	5.2	42
38	Facile Fabrication of Environmentally Friendly, Waterproof, and Breathable Nanofibrous Membranes with High UV-Resistant Performance by One-Step Electrospinning. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 4447-4458.	1.8	42
39	Engineering construction of robust superhydrophobic two-tier composite membrane with interlocked structure for membrane distillation. <i>Journal of Membrane Science</i> , 2020, 598, 117813.	4.1	41
40	In-Situ X-ray Deformation Study of Fluorinated Multiwalled Carbon Nanotube and Fluorinated Ethylene Propylene Nanocomposite Fibers. <i>Macromolecules</i> , 2006, 39, 5427-5437.	2.2	40
41	A durable thin-film nanofibrous composite nanofiltration membrane prepared by interfacial polymerization on a double-layer nanofibrous scaffold. <i>RSC Advances</i> , 2017, 7, 18001-18013.	1.7	39
42	Enhanced pervaporation performance of polyamide membrane with synergistic effect of porous nanofibrous support and trace graphene oxide lamellae. <i>Chemical Engineering Science</i> , 2019, 196, 265-276.	1.9	33
43	Micro-nano structure nanofibrous p-sulfonatocalix[8]arene complex membranes for highly efficient and selective adsorption of lanthanum(La^{3+}) ions in aqueous solution. <i>RSC Advances</i> , 2015, 5, 21178-21188.	1.7	30
44	High-performance TFNC membrane with adsorption assisted for removal of Pb(II) and other contaminants. <i>Journal of Hazardous Materials</i> , 2022, 424, 127742.	6.5	30
45	Control of structure and morphology of highly aligned PLLA ultrafine fibers via linear-jet electrospinning. <i>Polymer</i> , 2013, 54, 6045-6051.	1.8	28
46	PPy nanotubes-enabled in-situ heating nanofibrous composite membrane for solar-driven membrane distillation. <i>Separation and Purification Technology</i> , 2022, 281, 119995.	3.9	27
47	Hierarchical CuO-ZnO/SiO ₂ Fibrous Membranes for Efficient Removal of Congo Red and 4-Nitrophenol from Water. <i>Advanced Fiber Materials</i> , 2022, 4, 1069-1080.	7.9	27
48	Aligned and molecularly oriented semihollow ultrafine polymer fiber yarns by a facile method. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 1118-1125.	2.4	25
49	Heparinized thin-film composite membranes with sub-micron ridge structure for efficient hemodialysis. <i>Journal of Membrane Science</i> , 2020, 599, 117706.	4.1	25
50	High-performance polyamide composite membranes via double-interfacial polymerizations on a nanofibrous substrate for pervaporation dehydration. <i>Separation and Purification Technology</i> , 2021, 257, 117927.	3.9	25
51	Constructing zwitterionic coatings on thin-film nanofibrous composite membrane substrate for multifunctionality. <i>Applied Surface Science</i> , 2019, 483, 979-990.	3.1	24
52	Eco-friendly construction of dye-fouled loose CS/PAN nanofibrous composite membranes for permeability-selectivity anti-trade-off property. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 569, 145-155.	2.3	24
53	Dialysis/adsorption bifunctional thin-film nanofibrous composite membrane for creatinine clearance in portable artificial kidney. <i>Journal of Membrane Science</i> , 2021, 636, 119550.	4.1	21
54	Protein-resistant surface based on zwitterion-functionalized nanoparticles for marine antifouling applications. <i>New Journal of Chemistry</i> , 2020, 44, 2059-2069.	1.4	19

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55	High-performance nanofiltration membrane prepared by dopamine-assisted interfacial polymerization on PES nanofibrous scaffolds. <i>Desalination and Water Treatment</i> , 2016, 57, 9549-9557.	1.0	18
56	Ionic Cross-Linked Poly(acrylonitrile-co-acrylic acid)/Polyacrylonitrile Thin Film Nanofibrous Composite Membrane with High Ultrafiltration Performance. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 3077-3090.	1.8	17
57	Superelastic three-dimensional nanofiber-reconfigured spongy hydrogels with superior adsorption of lanthanide ions and photoluminescence. <i>Chemical Engineering Journal</i> , 2018, 348, 95-108.	6.6	17
58	A novel cost-effective PAN/CNS nanofibrous membranes with rich carboxyl groups for high efficient adsorption of Lanthanum(III) ions. <i>Separation and Purification Technology</i> , 2021, 259, 118216.	3.9	17
59	Nanofibrous composite hemodiafiltration membrane: A facile approach towards tuning the barrier layer for enhanced performance. <i>Applied Surface Science</i> , 2019, 465, 950-963.	3.1	16
60	Enhancing Dehydration Performance of Isopropanol by Introducing Intermediate Layer into Sodium Alginate Nanofibrous Composite Pervaporation Membrane. <i>Advanced Fiber Materials</i> , 2019, 1, 137-151.	7.9	15
61	Biomimetic sulfated silk nanofibrils for constructing rapid mid-molecule toxins removal nanochannels. <i>Journal of Membrane Science</i> , 2020, 598, 117667.	4.1	11
62	Customizing versatile polyamide nanofiltration membrane by the incorporation of a novel glycolic acid inhibitor. <i>Separation and Purification Technology</i> , 2021, 255, 117632.	3.9	11
63	Highly permeable composite nanofiltration membrane via β -cyclodextrin modulation for multiple applications. <i>Separation and Purification Technology</i> , 2022, 297, 121541.	3.9	11
64	Fabrication of Micro-Nano Structure Nanofibers by Solvent Etching. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 6919-6925.	0.9	10
65	Sulfonylcalix[4]arene functionalized nanofiber membranes for effective removal and selective fluorescence recognition of terbium(ⁱⁱⁱ) ions. <i>New Journal of Chemistry</i> , 2018, 42, 6191-6202.	1.4	7
66	Coordination of Copper Ion Crosslinked Composite Beads with Enhanced Toxins Adsorption and Thin-Film Nanofibrous Composite Membrane for Realizing the Lightweight Hemodialysis. <i>Advanced Fiber Materials</i> , 2022, 4, 556-570.	7.9	6
67	Coordination of thin-film nanofibrous composite dialysis membrane and reduced graphene oxide aerogel adsorbents for elimination of indoxyl sulfate. <i>Chinese Journal of Chemical Engineering</i> , 2022, 49, 111-121.	1.7	5
68	Electrospun Nanofibers for Water Treatment. , 2019, , 419-453.		2
69	Novel gelatin/polyacrylonitrile thin film nanofibrous composite membranes with high filtration performance. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020, 565, 012066.	0.2	0
70	Development of high-flux aciduric ultra-thin nanofibrous pervaporation composite membrane for acetic acid dehydration. <i>Journal of Applied Polymer Science</i> , 0, , .	1.3	0