Xianfeng Wang

List of Publications by Year
in descending order

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82 papers	6,161 citations	87723 38 h-index	69108 77 g-index
83 all docs	83 docs citations	83 times ranked	6785 citing authors

#	Article	IF	Citations
1	Transformation of Fibrous Membranes from Opaque to Transparent under Mechanical Pressing. Engineering, 2022, 19, 84-92.	3.2	11
2	Water electret charging based polypropylene/electret masterbatch composite melt-blown nonwovens with enhanced charge stability for efficient air filtration. Journal of the Textile Institute, 2022, 113, 2128-2134.	1.0	9
3	Integration of Janus Wettability and Heat Conduction in Hierarchically Designed Textiles for All-Day Personal Radiative Cooling. Nano Letters, 2022, 22, 680-687.	4.5	93
4	Environmentally Friendly, Durably Waterproof, and Highly Breathable Fibrous Fabrics Prepared by One-Step Fluorine-Free Waterborne Coating. ACS Applied Materials & Interfaces, 2022, 14, 8613-8622.	4.0	41
5	Novel nitrogen-doped carbon dots for â€œturn-onâ€•sensing of ATP based on aggregation induced emission enhancement effect. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 273, 121044.	2.0	5
6	Biomimetic Aligned Micro-/Nanofibrous Composite Membranes with Ultrafast Water Transport and Evaporation for Efficient Indoor Humidification. ACS Applied Materials & Interfaces, 2022, 14, 1983-1993.	4.0	16
7	Highly Transparent Nanofibrous Membranes Used as Transparent Masks for Efficient PM_{0.3} Removal. ACS Nano, 2022, 16, 119-128.	7.3	25
8	A Trilayered Composite Fabric with Directional Water Transport and Resistance to Blood Penetration for Medical Protective Clothing. ACS Applied Materials & Interfaces, 2022, 14, 18944-18953.	4.0	26
9	Sandwich-Structured textiles with hierarchically nanofibrous network and Janus wettability for outdoor personal thermal and moisture management. Chemical Engineering Journal, 2022, 450, 138012.	6.6	37
10	Spunbonded needle-punched nonwoven geotextiles for filtration and drainage applications: Manufacturing and structural design. Composites Communications, 2021, 25, 100481.	3.3	25
11	A Biomimetic Transpiration Textile for Highly Efficient Personal Drying and Cooling. Advanced Functional Materials, 2021, 31, 2008705.	7.8	98
12	Designing Unidirectional Moisture Transport Fabric Based on PA/CA Membrane Fabricated by Electrospinning. Fibers and Polymers, 2021, 22, 2404-2412.	1.1	3
13	Comparative research on selective adsorption of Pb(II) by biosorbents prepared by two kinds of modifying waste biomass: Highly-efficient performance, application and mechanism. Journal of Environmental Management, 2021, 288, 112388.	3.8	25
14	Lizard-Skin-Inspired Nanofibrous Capillary Network Combined with a Slippery Surface for Efficient Fog Collection. ACS Applied Materials & Interfaces, 2021, 13, 36587-36594.	4.0	18
15	Comparative study on enhanced pectinase and alkali-oxygen degummings of sisal fibers. Cellulose, 2021, 28, 8375-8386.	2.4	17
16	Tailoring high efficiency polypropylene based composite geotextiles for dewatering fly ash slurries. Composites Communications, 2021, 26, 100794.	3.3	3
17	Multi-bioinspired and Multistructural Integrated Patterned Nanofibrous Surface for Spontaneous and Efficient Fog Collection. Nano Letters, 2021, 21, 7806-7814.	4.5	33
18	Self-assembly of polyethylene oxide and its composite nanofibrous membranes with cellular network structure. Composites Communications, 2021, 27, 100759.	3.3	5

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19	Honeycombâ€inspired Robust Hygroscopic Nanofibrous Cellular Networks. Small Methods, 2021, 5, e2101011.	4.6	11
20	Porous, flexible, and core-shell structured carbon nanofibers hybridized by tin oxide nanoparticles for efficient carbon dioxide capture. Journal of Colloid and Interface Science, 2020, 560, 379-387.	5.0	34
21	Fluorine-Free Waterborne Coating for Environmentally Friendly, Robustly Water-Resistant, and Highly Breathable Fibrous Textiles. ACS Nano, 2020, 14, 1045-1054.	7.3	131
22	Electrospun carbon nanofibers with multi-aperture/opening porous hierarchical structure for efficient CO2 adsorption. Journal of Colloid and Interface Science, 2020, 561, 659-667.	5.0	48
23	Rapid Preparation of Activated Carbon Fiber Felt under Microwaves: Pore Structures, Adsorption of Tetracycline in Water, and Mechanism. Industrial & Engineering Chemistry Research, 2020, 59, 146-153.	1.8	11
24	Bifunctional Microcapsules with n-Octadecane/Thyme Oil Core and Polyurea Shell for High-Efficiency Thermal Energy Storage and Antibiosis. Polymers, 2020, 12, 2226.	2.0	13
25	Tailoring high anti-UV performance polypropylene based geotextiles with homogeneous waterborne polyurethane-TiO2 composite emulsions. Composites Communications, 2020, 22, 100529.	3.3	11
26	Colorimetric and fluorescent dual-identification of glutathione based on its inhibition on the 3D ball-flower shaped Cu-hemin-MOFâ€™s peroxidase-like activity. Mikrochimica Acta, 2020, 187, 601.	2.5	19
27	Highâ€Fidelity Determination and Tracing of Small Extracellular Vesicle Cargoes. Small, 2020, 16, e2002800.	5.2	21
28	Multifunctional, Waterproof, and Breathable Nanofibrous Textiles Based on Fluorine-Free, All-Water-Based Coatings. ACS Applied Materials & Interfaces, 2020, 12, 15911-15918.	4.0	57
29	Thermoconductive, Moisture-Permeable, and Superhydrophobic Nanofibrous Membranes with Interpenetrated Boron Nitride Network for Personal Cooling Fabrics. ACS Applied Materials & Interfaces, 2020, 12, 32078-32089.	4.0	90
30	Super hygroscopic nanofibrous membrane-based moisture pump for solar-driven indoor dehumidification. Nature Communications, 2020, 11, 3302.	5.8	143
31	Multi-scaled interconnected inter- and intra-fiber porous janus membranes for enhanced directional moisture transport. Journal of Colloid and Interface Science, 2020, 565, 426-435.	5.0	65
32	A Feasible Method Applied to One-Bath Process of Wool/Acrylic Blended Fabrics with Novel Heterocyclic Reactive Dyes and Application Properties of Dyed Textiles. Polymers, 2020, 12, 285.	2.0	9
33	One-step fabrication of multi-scaled, inter-connected hierarchical fibrous membranes for directional moisture transport. Journal of Colloid and Interface Science, 2020, 577, 207-216.	5.0	35
34	Biomimetic Fibrous Murray Membranes with Ultrafast Water Transport and Evaporation for Smart Moisture-Wicking Fabrics. ACS Nano, 2019, 13, 1060-1070.	7.3	120
35	Recent advances in the biotoxicity of metal oxide nanoparticles: Impacts on plants, animals and microorganisms. Chemosphere, 2019, 237, 124403.	4.2	53
36	Facile fabrication of fluorine-free breathable poly(methylhydrosiloxane)/polyurethane fibrous membranes with enhanced water-resistant capability. Journal of Colloid and Interface Science, 2019, 556, 541-548.	5.0	40

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37	Corncoblike, Superhydrophobic, and Phase-Changeable Nanofibers for Intelligent Thermoregulating and Water-Repellent Fabrics. ACS Applied Materials & Interfaces, 2019, 11, 39324-39333.	4.0	39
38	Introduction and Historical Overview. , 2019, , 3-20.		4
39	Tailoring waterproof and breathable properties of environmentally friendly electrospun fibrous membranes by optimizing porous structure and surface wettability. Composites Communications, 2019, 15, 40-45.	3.3	38
40	How do proteins â€˜responseâ€™ to common carbon nanomaterials?. Advances in Colloid and Interface Science, 2019, 270, 101-107.	7.0	13
41	Preparation of Flexible Substrate Electrode for Supercapacitor With High-Performance MnO2 Stalagmite Nanorod Arrays. Frontiers in Chemistry, 2019, 7, 338.	1.8	5
42	Electrospun bamboo-like Fe3C encapsulated Fe-Si-N co-doped nanofibers for efficient oxygen reduction. Journal of Colloid and Interface Science, 2019, 546, 231-239.	5.0	25
43	Waterproof and Breathable Electrospun Nanofibrous Membranes. Macromolecular Rapid Communications, 2019, 40, e1800931.	2.0	70
44	Electrospun Nanofibers for Carbon Dioxide Capture. , 2019, , 619-640.		4
45	Environmentally benign modification of breathable nanofibrous membranes exhibiting superior waterproof and photocatalytic self-cleaning properties. Nanoscale Horizons, 2019, 4, 867-873.	4.1	41
46	Fluorescent sensor for indirect measurement of methyl parathion based on alkaline-induced hydrolysis using N-doped carbon dots. Talanta, 2019, 192, 368-373.	2.9	54
47	Ultrahigh Metalâ€“Organic Framework Loading and Flexible Nanofibrous Membranes for Efficient CO₂ Capture with Long-Term, Ultrastable Recyclability. ACS Applied Materials & Interfaces, 2018, 10, 34802-34810.	4.0	87
48	Amine-impregnated porous nanofiber membranes for CO2 capture. Composites Communications, 2018, 10, 45-51.	3.3	21
49	Continuous, Spontaneous, and Directional Water Transport in the Trilayered Fibrous Membranes for Functional Moisture Wicking Textiles. Small, 2018, 14, e1801527.	5.2	213
50	Human Skin-Like, Robust Waterproof, and Highly Breathable Fibrous Membranes with Short Perfluorobutyl Chains for Eco-Friendly Protective Textiles. ACS Applied Materials & Interfaces, 2018, 10, 30887-30894.	4.0	63
51	Breathable and Colorful Cellulose Acetate-Based Nanofibrous Membranes for Directional Moisture Transport. ACS Applied Materials & Interfaces, 2018, 10, 22866-22875.	4.0	100
52	Robust and Flexible Carbon Nanofibers Doped with Amine Functionalized Carbon Nanotubes for Efficient CO₂ Capture. Advanced Sustainable Systems, 2017, 1, 1600028.	2.7	34
53	Polyaniline Enriched Flexible Carbon Nanofibers with Coreâ€“Shell Structure for Highâ€Performance Wearable Supercapacitors. Advanced Materials Interfaces, 2017, 4, 1700855.	1.9	36
54	Balsam-Pear-Skin-Like Porous Polyacrylonitrile Nanofibrous Membranes Grafted with Polyethyleneimine for Postcombustion CO₂ Capture. ACS Applied Materials & Interfaces, 2017, 9, 41087-41098.	4.0	60

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55	Free-standing, spider-web-like polyamide/carbon nanotube composite nanofibrous membrane impregnated with polyethyleneimine for CO2 capture. Composites Communications, 2017, 6, 41-47.	3.3	51
56	Tailoring Differential Moisture Transfer Performance of Nonwoven/Polyacrylonitrileâ€“SiO₂ Nanofiber Composite Membranes. Advanced Materials Interfaces, 2017, 4, 1700062.	1.9	46
57	Moisture Transport: Tailoring Differential Moisture Transfer Performance of Nonwoven/Polyacrylonitrileâ€“SiO₂ Nanofiber Composite Membranes (Adv. Mater. Interfaces) Tj ETQq1 1 0.784314 rgBT /O	1.9	31
58	Environmentally Friendly and Breathable Fluorinated Polyurethane Fibrous Membranes Exhibiting Robust Waterproof Performance. ACS Applied Materials & Interfaces, 2017, 9, 29302-29310.	4.0	101
59	Flexible Fe3O4@Carbon Nanofibers Hierarchically Assembled with MnO2 Particles for High-Performance Supercapacitor Electrodes. Scientific Reports, 2017, 7, 15153.	1.6	56
60	Effects of parameters of the shell formation process on the performance of microencapsulated phase change materials based on melamine-formaldehyde. Textile Reseach Journal, 2017, 87, 1848-1859.	1.1	15
61	Cobalt oxide nanoparticles embedded in flexible carbon nanofibers: attractive material for supercapacitor electrodes and CO₂ adsorption. RSC Advances, 2016, 6, 52171-52179.	1.7	33
62	Highly flexible NiCo 2 O 4 /CNTs doped carbon nanofibers for CO 2 adsorption and supercapacitor electrodes. Journal of Colloid and Interface Science, 2016, 476, 87-93.	5.0	74
63	Thermal inter-fiber adhesion of the polyacrylonitrile/fluorinated polyurethane nanofibrous membranes with enhanced waterproof-breathable performance. Separation and Purification Technology, 2016, 158, 53-61.	3.9	93
64	In situ synthesis of carbon nanotube doped metalâ€“organic frameworks for CO₂ capture. RSC Advances, 2016, 6, 4382-4386.	1.7	32
65	Electrospun nanofibrous materials: a versatile medium for effective oil/water separation. Materials Today, 2016, 19, 403-414.	8.3	369
66	Nuclear Magnetic Resonance Studies of CO₂ Absorption and Desorption in Aqueous Sodium Salt of Alanine. Energy & Fuels, 2015, 29, 3780-3784.	2.5	20
67	Assembly of silica aerogels within silica nanofibers: towards a super-insulating flexible hybrid aerogel membrane. RSC Advances, 2015, 5, 91813-91820.	1.7	38
68	Electrospun nanofibrous chitosan membranes modified with polyethyleneimine for formaldehyde detection. Carbohydrate Polymers, 2014, 108, 192-199.	5.1	86
69	Biomimetic electrospun nanofibrous structures for tissue engineering. Materials Today, 2013, 16, 229-241.	8.3	645
70	Amino Acid-Functionalized Ionic Liquid Solid Sorbents for Post-Combustion Carbon Capture. ACS Applied Materials & Interfaces, 2013, 5, 8670-8677.	4.0	107
71	Immobilization of amino acid ionic liquids into nanoporous microspheres as robust sorbents for CO2 capture. Journal of Materials Chemistry A, 2013, 1, 2978.	5.2	104
72	Development of amino acid and amino acid-complex based solid sorbents for CO2 capture. Applied Energy, 2013, 109, 112-118.	5.1	57

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73	Electro-spinning/netting: A strategy for the fabrication of three-dimensional polymer nano-fiber/nets. Progress in Materials Science, 2013, 58, 1173-1243.	16.0	440
74	Novel fluorinated polybenzoxazineâ€“silica films: chemical synthesis and superhydrophobicity. RSC Advances, 2012, 2, 12804.	1.7	39
75	Biomimicry via Electrospinning. Critical Reviews in Solid State and Materials Sciences, 2012, 37, 94-114.	6.8	100
76	Investigation of silica nanoparticle distribution in nanoporous polystyrene fibers. Soft Matter, 2011, 7, 8376.	1.2	63
77	Engineering biomimetic superhydrophobic surfaces of electrospun nanomaterials. Nano Today, 2011, 6, 510-530.	6.2	417
78	Large-scale fabrication of two-dimensional spider-web-like gelatin nano-nets via electro-netting. Colloids and Surfaces B: Biointerfaces, 2011, 86, 345-352.	2.5	65
79	Oneâ€step Electroâ€spinning/netting Technique for Controllably Preparing Polyurethane Nanoâ€fiber/net. Macromolecular Rapid Communications, 2011, 32, 1729-1734.	2.0	87
80	Macromol. Rapid Commun. 21/2011. Macromolecular Rapid Communications, 2011, 32, .	2.0	0
81	Electrospun nanomaterials for ultrasensitive sensors. Materials Today, 2010, 13, 16-27.	8.3	562
82	A highly sensitive humidity sensor based on a nanofibrous membrane coated quartz crystal microbalance. Nanotechnology, 2010, 21, 055502.	1.3	153