

# Xianfeng Wang

## List of Publications by Year in Descending Order

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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.

74  
papers

4,393  
citations

32  
h-index

66  
g-index

83  
ext. papers

5,185  
ext. citations

9  
avg, IF

5.99  
L-index

#	Paper	IF	Citations
74	Integration of Janus Wettability and Heat Conduction in Hierarchically Designed Textiles for All-Day Personal Radiative Cooling.. <i>Nano Letters</i> , <b>2022</b> ,	11.5	16
73	Novel nitrogen-doped carbon dots for "turn-on" sensing of ATP based on aggregation induced emission enhancement effect.. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2022</b> , 273, 121044	4.4	0
72	Honeycomb-Inspired Robust Hygroscopic Nanofibrous Cellular Networks.. <i>Small Methods</i> , <b>2021</b> , 5, e2101018	10.18	3
71	Designing Unidirectional Moisture Transport Fabric Based on PA/CA Membrane Fabricated by Electrospinning. <i>Fibers and Polymers</i> , <b>2021</b> , 22, 2404-2412	2	0
70	Comparative research on selective adsorption of Pb(II) by biosorbents prepared by two kinds of modifying waste biomass: Highly-efficient performance, application and mechanism. <i>Journal of Environmental Management</i> , <b>2021</b> , 288, 112388	7.9	7
69	Lizard-Skin-Inspired Nanofibrous Capillary Network Combined with a Slippery Surface for Efficient Fog Collection. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 36587-36594	9.5	6
68	Comparative study on enhanced pectinase and alkali-oxygen degummings of sisal fibers. <i>Cellulose</i> , <b>2021</b> , 28, 8375-8386	5.5	6
67	Spunbonded needle-punched nonwoven geotextiles for filtration and drainage applications: Manufacturing and structural design. <i>Composites Communications</i> , <b>2021</b> , 25, 100481	6.7	12
66	A Biomimetic Transpiration Textile for Highly Efficient Personal Drying and Cooling. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2008705	15.6	28
65	Tailoring high efficiency polypropylene based composite geotextiles for dewatering fly ash slurries. <i>Composites Communications</i> , <b>2021</b> , 26, 100794	6.7	
64	Multi-bioinspired and Multistructural Integrated Patterned Nanofibrous Surface for Spontaneous and Efficient Fog Collection. <i>Nano Letters</i> , <b>2021</b> , 21, 7806-7814	11.5	5
63	Self-assembly of polyethylene oxide and its composite nanofibrous membranes with cellular network structure. <i>Composites Communications</i> , <b>2021</b> , 27, 100759	6.7	4
62	Multifunctional, Waterproof, and Breathable Nanofibrous Textiles Based on Fluorine-Free, All-Water-Based Coatings. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 15911-15918	9.5	29
61	Thermoconductive, Moisture-Permeable, and Superhydrophobic Nanofibrous Membranes with Interpenetrated Boron Nitride Network for Personal Cooling Fabrics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 32078-32089	9.5	41
60	Super hygroscopic nanofibrous membrane-based moisture pump for solar-driven indoor dehumidification. <i>Nature Communications</i> , <b>2020</b> , 11, 3302	17.4	53
59	Multi-scaled interconnected inter- and intra-fiber porous janus membranes for enhanced directional moisture transport. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 565, 426-435	9.3	31
58	A Feasible Method Applied to One-Bath Process of Wool/Acrylic Blended Fabrics with Novel Heterocyclic Reactive Dyes and Application Properties of Dyed Textiles. <i>Polymers</i> , <b>2020</b> , 12,	4.5	3

57	One-step fabrication of multi-scaled, inter-connected hierarchical fibrous membranes for directional moisture transport. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 577, 207-216	9.3	21
56	Fluorine-Free Waterborne Coating for Environmentally Friendly, Robustly Water-Resistant, and Highly Breathable Fibrous Textiles. <i>ACS Nano</i> , <b>2020</b> , 14, 1045-1054	16.7	65
55	Electrospun carbon nanofibers with multi-aperture/opening porous hierarchical structure for efficient CO adsorption. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 561, 659-667	9.3	21
54	Rapid Preparation of Activated Carbon Fiber Felt under Microwaves: Pore Structures, Adsorption of Tetracycline in Water, and Mechanism. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 146-153	3.9	5
53	Bifunctional Microcapsules with n-Octadecane/Thyme Oil Core and Polyurea Shell for High-Efficiency Thermal Energy Storage and Antibiosis. <i>Polymers</i> , <b>2020</b> , 12,	4.5	6
52	Tailoring high anti-UV performance polypropylene based geotextiles with homogeneous waterborne polyurethane-TiO <sub>2</sub> composite emulsions. <i>Composites Communications</i> , <b>2020</b> , 22, 100529	6.7	4
51	Colorimetric and fluorescent dual-identification of glutathione based on its inhibition on the 3D ball-flower shaped Cu-hemin-MOFs peroxidase-like activity. <i>Mikrochimica Acta</i> , <b>2020</b> , 187, 601	5.8	11
50	High-Fidelity Determination and Tracing of Small Extracellular Vesicle Cargoes. <i>Small</i> , <b>2020</b> , 16, e20028001	1	4
49	Porous, flexible, and core-shell structured carbon nanofibers hybridized by tin oxide nanoparticles for efficient carbon dioxide capture. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 560, 379-387	9.3	19
48	Facile fabrication of fluorine-free breathable poly(methylhydrosiloxane)/polyurethane fibrous membranes with enhanced water-resistant capability. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 556, 541-548	9.3	19
47	Corncoblike, Superhydrophobic, and Phase-Changeable Nanofibers for Intelligent Thermoregulating and Water-Repellent Fabrics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 39324-39333	9.5	19
46	Introduction and Historical Overview <b>2019</b> , 3-20		4
45	Tailoring waterproof and breathable properties of environmentally friendly electrospun fibrous membranes by optimizing porous structure and surface wettability. <i>Composites Communications</i> , <b>2019</b> , 15, 40-45	6.7	23
44	How do proteins response to common carbon nanomaterials?. <i>Advances in Colloid and Interface Science</i> , <b>2019</b> , 270, 101-107	14.3	10
43	Preparation of Flexible Substrate Electrode for Supercapacitor With High-Performance MnO Stalagmite Nanorod Arrays. <i>Frontiers in Chemistry</i> , <b>2019</b> , 7, 338	5	3
42	Electrospun bamboo-like FeC encapsulated Fe-Si-N co-doped nanofibers for efficient oxygen reduction. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 546, 231-239	9.3	17
41	Waterproof and Breathable Electrospun Nanofibrous Membranes. <i>Macromolecular Rapid Communications</i> , <b>2019</b> , 40, e1800931	4.8	46
40	Electrospun Nanofibers for Carbon Dioxide Capture <b>2019</b> , 619-640		2

39	Recent advances in the biotoxicity of metal oxide nanoparticles: Impacts on plants, animals and microorganisms. <i>Chemosphere</i> , <b>2019</b> , 237, 124403	8.4	27
38	Environmentally benign modification of breathable nanofibrous membranes exhibiting superior waterproof and photocatalytic self-cleaning properties. <i>Nanoscale Horizons</i> , <b>2019</b> , 4, 867-873	10.8	26
37	Fluorescent sensor for indirect measurement of methyl parathion based on alkaline-induced hydrolysis using N-doped carbon dots. <i>Talanta</i> , <b>2019</b> , 192, 368-373	6.2	34
36	Biomimetic Fibrous Murray Membranes with Ultrafast Water Transport and Evaporation for Smart Moisture-Wicking Fabrics. <i>ACS Nano</i> , <b>2019</b> , 13, 1060-1070	16.7	77
35	Continuous, Spontaneous, and Directional Water Transport in the Trilayered Fibrous Membranes for Functional Moisture Wicking Textiles. <i>Small</i> , <b>2018</b> , 14, e1801527	11	121
34	Human Skin-Like, Robust Waterproof, and Highly Breathable Fibrous Membranes with Short Perfluorobutyl Chains for Eco-Friendly Protective Textiles. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 30887-30894	9.5	44
33	Breathable and Colorful Cellulose Acetate-Based Nanofibrous Membranes for Directional Moisture Transport. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 22866-22875	9.5	72
32	Ultrahigh Metal-Organic Framework Loading and Flexible Nanofibrous Membranes for Efficient CO <sub>2</sub> Capture with Long-Term, Ultrastable Recyclability. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 34802-34810	8.5	50
31	Amine-impregnated porous nanofiber membranes for CO <sub>2</sub> capture. <i>Composites Communications</i> , <b>2018</b> , 10, 45-51	6.7	14
30	Robust and Flexible Carbon Nanofibers Doped with Amine Functionalized Carbon Nanotubes for Efficient CO <sub>2</sub> Capture. <i>Advanced Sustainable Systems</i> , <b>2017</b> , 1, 1600028	5.9	24
29	Polyaniline Enriched Flexible Carbon Nanofibers with Core-Shell Structure for High-Performance Wearable Supercapacitors. <i>Advanced Materials Interfaces</i> , <b>2017</b> , 4, 1700855	4.6	28
28	Balsam-Pear-Skin-Like Porous Polyacrylonitrile Nanofibrous Membranes Grafted with Polyethyleneimine for Postcombustion CO Capture. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 41087-41098	9.5	37
27	Free-standing, spider-web-like polyamide/carbon nanotube composite nanofibrous membrane impregnated with polyethyleneimine for CO <sub>2</sub> capture. <i>Composites Communications</i> , <b>2017</b> , 6, 41-47	6.7	39
26	Tailoring Differential Moisture Transfer Performance of Nonwoven/Polyacrylonitrile-SiO <sub>2</sub> Nanofiber Composite Membranes. <i>Advanced Materials Interfaces</i> , <b>2017</b> , 4, 1700062	4.6	35
25	Environmentally Friendly and Breathable Fluorinated Polyurethane Fibrous Membranes Exhibiting Robust Waterproof Performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 29302-29310	9.5	80
24	Flexible FeO@Carbon Nanofibers Hierarchically Assembled with MnO Particles for High-Performance Supercapacitor Electrodes. <i>Scientific Reports</i> , <b>2017</b> , 7, 15153	4.9	37
23	Effects of parameters of the shell formation process on the performance of microencapsulated phase change materials based on melamine-formaldehyde. <i>Textile Research Journal</i> , <b>2017</b> , 87, 1848-1859	1.7	10
22	Thermal inter-fiber adhesion of the polyacrylonitrile/fluorinated polyurethane nanofibrous membranes with enhanced waterproof-breathable performance. <i>Separation and Purification Technology</i> , <b>2016</b> , 158, 53-61	8.3	66

21	In situ synthesis of carbon nanotube doped metalorganic frameworks for CO2 capture. <i>RSC Advances</i> , <b>2016</b> , 6, 4382-4386	3.7	26
20	Electrospun nanofibrous materials: a versatile medium for effective oil/water separation. <i>Materials Today</i> , <b>2016</b> , 19, 403-414	21.8	304
19	Cobalt oxide nanoparticles embedded in flexible carbon nanofibers: attractive material for supercapacitor electrodes and CO2 adsorption. <i>RSC Advances</i> , <b>2016</b> , 6, 52171-52179	3.7	25
18	Highly flexible NiCo2O4/CNTs doped carbon nanofibers for CO2 adsorption and supercapacitor electrodes. <i>Journal of Colloid and Interface Science</i> , <b>2016</b> , 476, 87-93	9.3	63
17	Nuclear Magnetic Resonance Studies of CO2 Absorption and Desorption in Aqueous Sodium Salt of Alanine. <i>Energy &amp; Fuels</i> , <b>2015</b> , 29, 3780-3784	4.1	13
16	Assembly of silica aerogels within silica nanofibers: towards a super-insulating flexible hybrid aerogel membrane. <i>RSC Advances</i> , <b>2015</b> , 5, 91813-91820	3.7	25
15	Electrospun nanofibrous chitosan membranes modified with polyethyleneimine for formaldehyde detection. <i>Carbohydrate Polymers</i> , <b>2014</b> , 108, 192-9	10.3	74
14	Biomimetic electrospun nanofibrous structures for tissue engineering. <i>Materials Today</i> , <b>2013</b> , 16, 229-241	11.8	541
13	Amino acid-functionalized ionic liquid solid sorbents for post-combustion carbon capture. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 8670-7	9.5	97
12	Immobilization of amino acid ionic liquids into nanoporous microspheres as robust sorbents for CO2 capture. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 2978	13	88
11	Development of amino acid and amino acid-complex based solid sorbents for CO2 capture. <i>Applied Energy</i> , <b>2013</b> , 109, 112-118	10.7	49
10	Electro-spinning/netting: A strategy for the fabrication of three-dimensional polymer nano-fiber/nets. <i>Progress in Materials Science</i> , <b>2013</b> , 58, 1173-1243	42.2	375
9	Novel fluorinated polybenzoxazine silica films: chemical synthesis and superhydrophobicity. <i>RSC Advances</i> , <b>2012</b> , 2, 12804	3.7	36
8	Biomimicry via Electrospinning. <i>Critical Reviews in Solid State and Materials Sciences</i> , <b>2012</b> , 37, 94-114	10.1	84
7	Investigation of silica nanoparticle distribution in nanoporous polystyrene fibers. <i>Soft Matter</i> , <b>2011</b> , 7, 8376	3.6	59
6	Engineering biomimetic superhydrophobic surfaces of electrospun nanomaterials. <i>Nano Today</i> , <b>2011</b> , 6, 510-530	17.9	366
5	Large-scale fabrication of two-dimensional spider-web-like gelatin nano-nets via electro-netting. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2011</b> , 86, 345-52	6	59
4	One-step electro-spinning/netting technique for controllably preparing polyurethane nano-fiber/net. <i>Macromolecular Rapid Communications</i> , <b>2011</b> , 32, 1729-34	4.8	71

- 3 A highly sensitive humidity sensor based on a nanofibrous membrane coated quartz crystal microbalance. *Nanotechnology*, **2010**, 21, 055502 3.4 140
- 2 Electrospun nanomaterials for ultrasensitive sensors. *Materials Today*, **2010**, 13, 16-27 21.8 502
- 1 Water electret charging based polypropylene/electret masterbatch composite melt-blown nonwovens with enhanced charge stability for efficient air filtration. *Journal of the Textile Institute*, 1-7 1.5 3