

Xianfeng Wang

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.

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	Biomimetic electrospun nanofibrous structures for tissue engineering. <i>Materials Today</i> , 2013 , 16, 229-244	21.8	541
73	Electrospun nanomaterials for ultrasensitive sensors. <i>Materials Today</i> , 2010 , 13, 16-27	21.8	502
72	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
71	Engineering biomimetic superhydrophobic surfaces of electrospun nanomaterials. <i>Nano Today</i> , 2011 , 6, 510-530	17.9	366
70	Electrospun nanofibrous materials: a versatile medium for effective oil/water separation. <i>Materials Today</i> , 2016 , 19, 403-414	21.8	304
69	A highly sensitive humidity sensor based on a nanofibrous membrane coated quartz crystal microbalance. <i>Nanotechnology</i> , 2010 , 21, 055502	3.4	140
68	Continuous, Spontaneous, and Directional Water Transport in the Trilayered Fibrous Membranes for Functional Moisture Wicking Textiles. <i>Small</i> , 2018 , 14, e1801527	11	121
67	Amino acid-functionalized ionic liquid solid sorbents for post-combustion carbon capture. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 8670-7	9.5	97
66	Immobilization of amino acid ionic liquids into nanoporous microspheres as robust sorbents for CO ₂ capture. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 2978	13	88
65	Biomimicry via Electrospinning. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2012 , 37, 94-114	10.1	84
64	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
63	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
62	Electrospun nanofibrous chitosan membranes modified with polyethyleneimine for formaldehyde detection. <i>Carbohydrate Polymers</i> , 2014 , 108, 192-9	10.3	74
61	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
60	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
59	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
58	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

57	Highly flexible NiCo ₂ O ₄ /CNTs doped carbon nanofibers for CO ₂ adsorption and supercapacitor electrodes. <i>Journal of Colloid and Interface Science</i> , 2016 , 476, 87-93	9.3	63
56	Investigation of silica nanoparticle distribution in nanoporous polystyrene fibers. <i>Soft Matter</i> , 2011 , 7, 8376	3.6	59
55	Large-scale fabrication of two-dimensional spider-web-like gelatin nano-nets via electro-netting. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011 , 86, 345-52	6	59
54	Ultrahigh Metal-Organic Framework Loading and Flexible Nanofibrous Membranes for Efficient CO ₂ Capture with Long-Term, Ultrastable Recyclability. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 34802-34810	8.5	50
53	Super hygroscopic nanofibrous membrane-based moisture pump for solar-driven indoor dehumidification. <i>Nature Communications</i> , 2020 , 11, 3302	17.4	53
52	Development of amino acid and amino acid-complex based solid sorbents for CO ₂ capture. <i>Applied Energy</i> , 2013 , 109, 112-118	10.7	49
51	Waterproof and Breathable Electrospun Nanofibrous Membranes. <i>Macromolecular Rapid Communications</i> , 2019 , 40, e1800931	4.8	46
50	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
49	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
48	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
47	Balsam-Pear-Skin-Like Porous Polyacrylonitrile Nanofibrous Membranes Grafted with Polyethyleneimine for Postcombustion CO ₂ Capture. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 41087-41098	9.5	37
46	Flexible FeO@Carbon Nanofibers Hierarchically Assembled with MnO Particles for High-Performance Supercapacitor Electrodes. <i>Scientific Reports</i> , 2017 , 7, 15153	4.9	37
45	Novel fluorinated polybenzoxazine-silica films: chemical synthesis and superhydrophobicity. <i>RSC Advances</i> , 2012 , 2, 12804	3.7	36
44	Tailoring Differential Moisture Transfer Performance of Nonwoven/Polyacrylonitrile-SiO ₂ Nanofiber Composite Membranes. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700062	4.6	35
43	Fluorescent sensor for indirect measurement of methyl parathion based on alkaline-induced hydrolysis using N-doped carbon dots. <i>Talanta</i> , 2019 , 192, 368-373	6.2	34
42	Multi-scaled interconnected inter- and intra-fiber porous janus membranes for enhanced directional moisture transport. <i>Journal of Colloid and Interface Science</i> , 2020 , 565, 426-435	9.3	31
41	Multifunctional, Waterproof, and Breathable Nanofibrous Textiles Based on Fluorine-Free, All-Water-Based Coatings. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 15911-15918	9.5	29
40	Polyaniline Enriched Flexible Carbon Nanofibers with Core-Shell Structure for High-Performance Wearable Supercapacitors. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700855	4.6	28

39	A Biomimetic Transpiration Textile for Highly Efficient Personal Drying and Cooling. <i>Advanced Functional Materials</i> , 2021 , 31, 2008705	15.6	28
38	Recent advances in the biotoxicity of metal oxide nanoparticles: Impacts on plants, animals and microorganisms. <i>Chemosphere</i> , 2019 , 237, 124403	8.4	27
37	In situ synthesis of carbon nanotube doped metal-organic frameworks for CO ₂ capture. <i>RSC Advances</i> , 2016 , 6, 4382-4386	3.7	26
36	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
35	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
34	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
33	Robust and Flexible Carbon Nanofibers Doped with Amine Functionalized Carbon Nanotubes for Efficient CO ₂ Capture. <i>Advanced Sustainable Systems</i> , 2017 , 1, 1600028	5.9	24
32	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
31	One-step fabrication of multi-scaled, inter-connected hierarchical fibrous membranes for directional moisture transport. <i>Journal of Colloid and Interface Science</i> , 2020 , 577, 207-216	9.3	21
30	Electrospun carbon nanofibers with multi-aperture/opening porous hierarchical structure for efficient CO adsorption. <i>Journal of Colloid and Interface Science</i> , 2020 , 561, 659-667	9.3	21
29	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
28	Corn-cob-like, Superhydrophobic, and Phase-Changeable Nanofibers for Intelligent Thermoregulating and Water-Repellent Fabrics. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 39324-39333	9.5	19
27	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> , 2020 , 560, 379-387	9.3	19
26	Electrospun bamboo-like FeC encapsulated Fe-Si-N co-doped nanofibers for efficient oxygen reduction. <i>Journal of Colloid and Interface Science</i> , 2019 , 546, 231-239	9.3	17
25	Integration of Janus Wettability and Heat Conduction in Hierarchically Designed Textiles for All-Day Personal Radiative Cooling. <i>Nano Letters</i> , 2022 ,	11.5	16
24	Amine-impregnated porous nanofiber membranes for CO ₂ capture. <i>Composites Communications</i> , 2018 , 10, 45-51	6.7	14
23	Nuclear Magnetic Resonance Studies of CO ₂ Absorption and Desorption in Aqueous Sodium Salt of Alanine. <i>Energy & Fuels</i> , 2015 , 29, 3780-3784	4.1	13
22	Spunbonded needle-punched nonwoven geotextiles for filtration and drainage applications: Manufacturing and structural design. <i>Composites Communications</i> , 2021 , 25, 100481	6.7	12

21	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> , 2020 , 187, 601	5.8	11
20	How do proteins response to common carbon nanomaterials?. <i>Advances in Colloid and Interface Science</i> , 2019 , 270, 101-107	14.3	10
19	Effects of parameters of the shell formation process on the performance of microencapsulated phase change materials based on melamine-formaldehyde. <i>Textile Reseach Journal</i> , 2017 , 87, 1848-1859	1.7	10
18	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> , 2021 , 288, 112388	7.9	7
17	Bifunctional Microcapsules with n-Octadecane/Thyme Oil Core and Polyurea Shell for High-Efficiency Thermal Energy Storage and Antibiosis. <i>Polymers</i> , 2020 , 12,	4.5	6
16	Lizard-Skin-Inspired Nanofibrous Capillary Network Combined with a Slippery Surface for Efficient Fog Collection. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 36587-36594	9.5	6
15	Comparative study on enhanced pectinase and alkali-oxygen degummings of sisal fibers. <i>Cellulose</i> , 2021 , 28, 8375-8386	5.5	6
14	Rapid Preparation of Activated Carbon Fiber Felt under Microwaves: Pore Structures, Adsorption of Tetracycline in Water, and Mechanism. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 146-153	3.9	5
13	Multi-bioinspired and Multistructural Integrated Patterned Nanofibrous Surface for Spontaneous and Efficient Fog Collection. <i>Nano Letters</i> , 2021 , 21, 7806-7814	11.5	5
12	Introduction and Historical Overview 2019 , 3-20		4
11	Tailoring high anti-UV performance polypropylene based geotextiles with homogeneous waterborne polyurethane-TiO ₂ composite emulsions. <i>Composites Communications</i> , 2020 , 22, 100529	6.7	4
10	High-Fidelity Determination and Tracing of Small Extracellular Vesicle Cargoes. <i>Small</i> , 2020 , 16, e2002800	10.1	4
9	Self-assembly of polyethylene oxide and its composite nanofibrous membranes with cellular network structure. <i>Composites Communications</i> , 2021 , 27, 100759	6.7	4
8	Preparation of Flexible Substrate Electrode for Supercapacitor With High-Performance MnO Stalagmite Nanorod Arrays. <i>Frontiers in Chemistry</i> , 2019 , 7, 338	5	3
7	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> , 2020 , 12,	4.5	3
6	Honeycomb-Inspired Robust Hygroscopic Nanofibrous Cellular Networks.. <i>Small Methods</i> , 2021 , 5, e2101018	10.18	3
5	Water electret charging based polypropylene/electret masterbatch composite melt-blown nonwovens with enhanced charge stability for efficient air filtration. <i>Journal of the Textile Institute</i> , 1-7	1.5	3
4	Electrospun Nanofibers for Carbon Dioxide Capture 2019 , 619-640		2

3	Designing Unidirectional Moisture Transport Fabric Based on PA/CA Membrane Fabricated by Electrospinning. <i>Fibers and Polymers</i> , 2021 , 22, 2404-2412	2	○
2	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> , 2022 , 273, 121044	4.4	○
1	Tailoring high efficiency polypropylene based composite geotextiles for dewatering fly ash slurries. <i>Composites Communications</i> , 2021 , 26, 100794	6.7	