

Hongxia 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.

110 papers	6,521 citations	41 h-index	80 g-index
112 ext. papers	7,392 ext. citations	8.2 avg, IF	6.05 L-index

#	Paper	IF	Citations
110	Thermoacoustic energy harvesting using thermally-stabilized polyacrylonitrile nanofibers. <i>Nano Energy</i> , 2022 , 95, 106995	17.1	1
109	A novel Janus fabric with stable amphibious directional oil transport function. <i>Chemical Engineering Journal</i> , 2022 , 427, 131936	14.7	3
108	Improvement of Air Filtration Performance Using Nanofibrous Membranes with a Periodic Variation in Packing Density. <i>Advanced Materials Interfaces</i> , 2022 , 9, 2101848	4.6	0
107	Competitive Wetting: A New Approach to Prevent Liquid Penetration through Porous Materials with Superior Synergistic Effect. <i>Small</i> , 2021 , 17, e2103695	11	
106	Super-robust self-healing superhydrophobic coating with triboelectrification induced liquid self-repellency. <i>Materials and Design</i> , 2021 , 211, 110145	8.1	2
105	Energy generation from airborne noise: Improving electrical outputs of single-layer polyvinylidene difluoride nanofiber membranes by incorporating a small number of nylon-6 nanofibers. <i>Nano Energy</i> , 2021 , 90, 106618	17.1	4
104	High-Performance Voice Recognition Based on Piezoelectric Polyacrylonitrile Nanofibers. <i>Advanced Electronic Materials</i> , 2021 , 7, 2100206	6.4	8
103	Fabrics with Novel Air-Oil Amphibious, Spontaneous One-Way Water-Transport Capability for Oil/Water Separation. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 29150-29157	9.5	5
102	A novel and efficient catalyst system composed of detonation nanodiamond and potassium iodide for chemical fixation of carbon dioxide. <i>Diamond and Related Materials</i> , 2021 , 116, 108430	3.5	
101	Micro-meso porous structured carbon nanofibers with ultra-high surface area and large supercapacitor electrode capacitance. <i>Journal of Power Sources</i> , 2021 , 482, 228986	8.9	41
100	High-precision detection of ordinary sound by electrospun polyacrylonitrile nanofibers. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 3477-3485	7.1	6
99	High-temperature piezoelectric conversion using thermally stabilized electrospun polyacrylonitrile membranes. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 20395-20404	13	5
98	Schottky DC generators with considerable enhanced power output and energy conversion efficiency based on polypyrrole-TiO ₂ nanocomposite. <i>Nano Energy</i> , 2021 , 89, 106367	17.1	3
97	Single-layer piezoelectric nanofiber membrane with substantially enhanced noise-to-electricity conversion from endogenous triboelectricity. <i>Nano Energy</i> , 2021 , 89, 106427	17.1	5
96	Efficient conversion of sound noise into electric energy using electrospun polyacrylonitrile membranes. <i>Nano Energy</i> , 2020 , 75, 104956	17.1	30
95	Substantial Improvement of Oil Aerosol Filtration Performance Using In-Plane Asymmetric Wettability. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 28852-28860	9.5	5
94	Highly Efficient Solvent-free Conversion of CO ₂ into Cyclic Carbonates by Acrylamide. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 8136-8144	3.9	6

93	A versatile, highly effective nanofibrous separation membrane. <i>Nanoscale</i> , 2020 , 12, 2359-2365	7.7	6
92	Superoleophobic Filters: Improvement of Filtration Performance by Front Attachment of Oil-Guiding Fabric. <i>Advanced Materials Interfaces</i> , 2020 , 7, 1901808	4.6	4
91	Direct-current energy generators from polypyrrole-coated fabric/metal Schottky diodes with considerably improved output. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 24166-24174	13	10
90	Improving Supercapacitance of Electrospun Carbon Nanofibers through Increasing Micropores and Microporous Surface Area. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1801900	4.6	14
89	Novel Water Harvesting Fibrous Membranes with Directional Water Transport Capability. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1801529	4.6	25
88	Multifunctional Directional Water Transport Fabrics with Moisture Sensing Capability. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 22878-22884	9.5	18
87	Schottky direct-current energy harvesters with large current output density. <i>Nano Energy</i> , 2019 , 62, 171-180	18.0	20
86	Motion sensors achieved from a conducting polymer-metal Schottky contact.. <i>RSC Advances</i> , 2019 , 9, 6576-6582	3.7	3
85	Succinimide-KI: An efficient binary catalyst system for mild, solvent-free cycloaddition of CO ₂ to epoxides. <i>Molecular Catalysis</i> , 2019 , 469, 111-117	3.3	17
84	Superhydrophilic, Underwater Directional Oil-Transport Fabrics with a Novel Oil Trapping Function. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 27402-27409	9.5	10
83	Highly sensitive detection of subtle movement using a flexible strain sensor from helically wrapped carbon yarns. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 10049-10058	7.1	27
82	High-Efficiency Low-Resistance Oil-Mist Coalescence Filtration Using Fibrous Filters with Thickness-Direction Asymmetric Wettability. <i>Advanced Functional Materials</i> , 2019 , 29, 1806302	15.6	44
81	Doping Effect on Conducting Polymer-Metal Schottky DC Generators. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800675	6.4	22
80	Unexpectedly high piezoelectricity of electrospun polyacrylonitrile nanofiber membranes. <i>Nano Energy</i> , 2019 , 56, 588-594	17.1	70
79	Preparation of self-healing hydrophobic coating on AA6061 alloy surface and its anti-corrosion property. <i>Journal of Alloys and Compounds</i> , 2019 , 774, 495-501	5.7	17
78	Amphibious superamphiphilic fabrics with self-healing underwater superoleophilicity. <i>Materials Horizons</i> , 2019 , 6, 122-129	14.4	30
77	Multicolor Electrochromic Fibers with Helix-Patterned Electrodes. <i>Advanced Electronic Materials</i> , 2018 , 4, 1800104	6.4	27
76	Polyvinyl alcohol-potassium iodide: An efficient binary catalyst for cycloaddition of epoxides with CO ₂ . <i>Molecular Catalysis</i> , 2018 , 449, 25-30	3.3	13

75	High Performance Supercapacitor Electrode Materials from Electrospun Carbon Nanofibers in Situ Activated by High Decomposition Temperature Polymer. <i>ACS Applied Energy Materials</i> , 2018 , 1, 431-439	6.1	59
74	Efficient removal of aerosol oil-mists using superoleophobic filters. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 871-877	13	33
73	Magnet-responsive, superhydrophobic fabrics from waterborne, fluoride-free coatings.. <i>RSC Advances</i> , 2018 , 8, 717-723	3.7	28
72	Conversion of carbon dioxide into cyclic carbonates using wool powder-KI as catalyst. <i>Journal of CO2 Utilization</i> , 2018 , 24, 174-179	7.6	38
71	Electro-aerodynamic field aided needleless electrospinning. <i>Nanotechnology</i> , 2018 , 29, 235302	3.4	9
70	Durable superoleophobic-superhydrophilic fabrics with high anti-oil-fouling property.. <i>RSC Advances</i> , 2018 , 8, 26939-26947	3.7	14
69	Highly Permeable, Directional Water Transport Cotton Fabrics. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800815	4.6	12
68	Recent Progress in Durable and Self-Healing Super-Nonwetable Fabrics. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800461	4.6	35
67	Pore size effect on one-way water-transport cotton fabrics. <i>Applied Surface Science</i> , 2018 , 455, 924-930	6.7	12
66	Enhancement of Coil Electrospinning Using Two-Level Coil Structure. <i>Industrial & Engineering Chemistry Research</i> , 2018 ,	3.9	1
65	Mechanical Energy-to-Electricity Conversion of Electron/Hole-Transfer Agent-Doped Poly(Vinylidene Fluoride) Nanofiber Webs. <i>Macromolecular Materials and Engineering</i> , 2017 , 302, 1600451	3.9	10
64	A Waterborne Coating System for Preparing Robust, Self-healing, Superamphiphobic Surfaces. <i>Advanced Functional Materials</i> , 2017 , 27, 1604261	15.6	181
63	Direct current energy generators from a conducting polymer/inorganic oxide junction. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 8267-8273	13	27
62	Argon Plasma Treatment of Fluorine-Free Silane Coatings: A Facile, Environment-Friendly Method to Prepare Durable, Superhydrophobic Fabrics. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700027	4.6	43
61	High-output acoustoelectric power generators from poly(vinylidene fluoride-co-trifluoroethylene) electrospun nano-nonwovens. <i>Nano Energy</i> , 2017 , 35, 146-153	17.1	41
60	Improving Nanofiber Production and Application Performance by Electrospinning at Elevated Temperatures. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 12337-12343	3.9	9
59	Argon-Plasma Reinforced Superamphiphobic Fabrics. <i>Small</i> , 2017 , 13, 1701891	11	31
58	Wool powder: An efficient additive to improve mechanical and thermal properties of poly(propylene carbonate). <i>Composites Science and Technology</i> , 2017 , 153, 119-127	8.6	16

57	Durable, self-healing, superhydrophobic fabrics from fluorine-free, waterborne, polydopamine/alkyl silane coatings. <i>RSC Advances</i> , 2017 , 7, 33986-33993	3.7	48
56	Directional Fluid Transport in Thin Porous Materials and its Functional Applications. <i>Small</i> , 2017 , 13, 1601070	10.70	131
55	Effect Of Static Charges On Mechanical-To-Electrical Energy Conversion Of Electrospun PVDF Nanofiber Mats. <i>Advanced Materials Letters</i> , 2017 , 8, 418-422	2.4	3
54	One-Way Water-Transport Cotton Fabrics with Enhanced Cooling Effect. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600283	4.6	27
53	Recent Development in Durable Super-Liquid-Repellent Fabrics. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600402	4.6	26
52	High-performance supercapacitor electrode from cellulose-derived, inter-bonded carbon nanofibers. <i>Journal of Power Sources</i> , 2016 , 324, 302-308	8.9	100
51	Experimental and theoretical investigation on corrosion inhibition of AA5052 aluminium alloy by L-cysteine in alkaline solution. <i>Materials Chemistry and Physics</i> , 2016 , 169, 142-151	4.4	65
50	Fluorine-Free Superhydrophobic Coatings with pH-induced Wettability Transition for Controllable Oil-Water Separation. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 5661-7	9.5	158
49	Heat Transfer in Directional Water Transport Fabrics. <i>Fibers</i> , 2016 , 4, 26	3.7	2
48	Directional Water Transport Fabrics with Durable Ultra-High One-Way Transport Capacity. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600036	4.6	57
47	Polypyrrole-Coated PDMS Fibrous Membrane: Flexible Strain Sensor with Distinctive Resistance Responses at Different Strain Ranges. <i>Macromolecular Materials and Engineering</i> , 2016 , 301, 707-713	3.9	23
46	Polymer-Metal Schottky Contact with Direct-Current Outputs. <i>Advanced Materials</i> , 2016 , 28, 1461-6	24	67
45	Power Generation: Polymer-Metal Schottky Contact with Direct-Current Outputs (Adv. Mater. 7/2016). <i>Advanced Materials</i> , 2016 , 28, 1524-1524	24	2
44	A superamphiphobic coating with an ammonia-triggered transition to superhydrophilic and superoleophobic for oil-water separation. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 4527-30	16.4	254
43	Self-cleaning, superhydrophobic cotton fabrics with excellent washing durability, solvent resistance and chemical stability prepared from an SU-8 derived surface coating. <i>RSC Advances</i> , 2015 , 5, 61044-61050	3.7	63
42	Thermoelectric fabrics: toward power generating clothing. <i>Scientific Reports</i> , 2015 , 5, 6411	4.9	193
41	Superstrong, Chemically Stable, Superamphiphobic Fabrics from Particle-Free Polymer Coatings. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1400559	4.6	76
40	Robust Mechanical-to-Electrical Energy Conversion from Short-Distance Electrospun Poly(vinylidene fluoride) Fiber Webs. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 22551-7	9.5	39

39	Selective, Spontaneous One-Way Oil-Transport Fabrics and Their Novel Use for Gauging Liquid Surface Tension. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 22874-80	9.5	71
38	Improvement of light harvesting and device performance of dye-sensitized solar cells using rod-like nanocrystal TiO ₂ overlay coating on TiO ₂ nanoparticle working electrode. <i>Materials Chemistry and Physics</i> , 2015 , 151, 330-336	4.4	12
37	Desalination of Water by using Superhydrophobic Fabric. <i>Research Journal of Textile and Apparel</i> , 2015 , 19, 1-8	1.1	0
36	Electrospun Fibrous Membranes with Super-large-strain Electric Superhydrophobicity. <i>Scientific Reports</i> , 2015 , 5, 15863	4.9	13
35	A Superamphiphobic Coating with an Ammonia-Triggered Transition to Superhydrophilic and Superoleophobic for Oil/Water Separation. <i>Angewandte Chemie</i> , 2015 , 127, 4610-4613	3.6	62
34	Dual-Layer Superamphiphobic/Superhydrophobic-Oleophilic Nanofibrous Membranes with Unidirectional Oil-Transport Ability and Strengthened Oil/Water Separation Performance. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1400506	4.6	123
33	Effect of electrospinning parameters and polymer concentrations on mechanical-to-electrical energy conversion of randomly-oriented electrospun poly(vinylidene fluoride) nanofiber mats. <i>RSC Advances</i> , 2015 , 5, 14345-14350	3.7	139
32	Ultrafine PDMS fibers: preparation from in situ curing-electrospinning and mechanical characterization. <i>RSC Advances</i> , 2014 , 4, 11782-11787	3.7	28
31	Tape Extrusion of Heterogeneous Polymer Blends: Polymer Films with Highly Oriented Nanoribbons, Structural/Optical Property, and Anisotropic Mechanical Strength. <i>Macromolecular Materials and Engineering</i> , 2014 , 299, 878-884	3.9	4
30	Enhanced mechanical energy harvesting using needleless electrospun poly(vinylidene fluoride) nanofibre webs. <i>Energy and Environmental Science</i> , 2013 , 6, 2196	35.4	185
29	Robust, superamphiphobic fabric with multiple self-healing ability against both physical and chemical damages. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 10221-6	9.5	143
28	Robust, electro-conductive, self-healing superamphiphobic fabric prepared by one-step vapour-phase polymerisation of poly(3,4-ethylenedioxythiophene) in the presence of fluorinated decyl polyhedral oligomeric silsesquioxane and fluorinated alkyl silane. <i>Soft Matter</i> , 2013 , 9, 277-282	3.6	93
27	Robust, Self-Healing Superamphiphobic Fabrics Prepared by Two-Step Coating of Fluoro-Containing Polymer, Fluoroalkyl Silane, and Modified Silica Nanoparticles. <i>Advanced Functional Materials</i> , 2013 , 23, 1664-1670	15.6	364
26	Superphobicity/philocity Janus fabrics with switchable, spontaneous, directional transport ability to water and oil fluids. <i>Scientific Reports</i> , 2013 , 3, 2964	4.9	135
25	Unidirectional water transfer effect from fabrics having a superhydrophobic-to-hydrophilic gradient. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 839-42	1.3	18
24	Layer-by-layer assembly of antibacterial coating on interbonded 3D fibrous scaffolds and its cytocompatibility assessment. <i>Journal of Biomedical Materials Research - Part A</i> , 2012 , 100, 2071-8	5.4	22
23	Fluoroalkyl silane modified silicone rubber/nanoparticle composite: a super durable, robust superhydrophobic fabric coating. <i>Advanced Materials</i> , 2012 , 24, 2409-12	24	484
22	Superhydrophobic nanofibre membranes: effects of particulate coating on hydrophobicity and surface properties. <i>Journal of the Textile Institute</i> , 2012 , 103, 937-944	1.5	26

21	One-step vapour-phase formation of patternable, electrically conductive, superamphiphobic coatings on fibrous materials. <i>Soft Matter</i> , 2011 , 7, 8158	3.6	78
20	Durable, self-healing superhydrophobic and superoleophobic surfaces from fluorinated-decyl polyhedral oligomeric silsesquioxane and hydrolyzed fluorinated alkyl silane. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 11433-6	16.4	409
19	Whispering gallery mode emission generated in tunable quantum dot doped glycerol/water and ionic liquid/water microdroplets formed on a superhydrophobic coating. <i>Journal of Materials Chemistry</i> , 2011 , 21, 10823		8
18	Three-dimensional tissue scaffolds from interbonded poly(ϵ -caprolactone) fibrous matrices with controlled porosity. <i>Tissue Engineering - Part C: Methods</i> , 2011 , 17, 209-18	2.9	23
17	Magnet-induced temporary superhydrophobic coatings from one-pot synthesized hydrophobic magnetic nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 1449-55	9.5	53
16	Directional water-transfer through fabrics induced by asymmetric wettability. <i>Journal of Materials Chemistry</i> , 2010 , 20, 7938		147
15	Super Water Repellent Fabrics Produced by Silica Nanoparticle-containing Coating. <i>Research Journal of Textile and Apparel</i> , 2010 , 14, 30-37	1.1	6
14	Evolution of Fiber Morphologies during Poly (acrylonitrile) Electrospinning. <i>Macromolecular Symposia</i> , 2010 , 287, 155-161	0.8	2
13	Superhydrophobic fabrics from hybrid silica sol-gel coatings: Structural effect of precursors on wettability and washing durability. <i>Journal of Materials Research</i> , 2010 , 25, 1336-1343	2.5	53
12	Magnetic liquid marbles: manipulation of liquid droplets using highly hydrophobic Fe ₃ O ₄ nanoparticles. <i>Advanced Materials</i> , 2010 , 22, 707-10	24	256
11	Magnetic liquid marbles: a "precise" miniature reactor. <i>Advanced Materials</i> , 2010 , 22, 4814-8	24	271
10	Evolution of fiber morphology during electrospinning. <i>Journal of Applied Polymer Science</i> , 2010 , 118, 2553-2561	2.9	28
9	Superhydrophobic electrospun POSS-PMMA copolymer fibres with highly ordered nanofibrillar and surface structures. <i>Chemical Communications</i> , 2009 , 6418-20	5.8	78
8	Electroless synthesis of nano-structured gold particles using conducting polymer nanoparticles. <i>Synthetic Metals</i> , 2008 , 158, 585-589	3.6	20
7	One-step coating of fluoro-containing silica nanoparticles for universal generation of surface superhydrophobicity. <i>Chemical Communications</i> , 2008 , 877-9	5.8	229
6	Polypyrrole-coated electrospun nanofibre membranes for recovery of Au(III) from aqueous solution. <i>Journal of Membrane Science</i> , 2007 , 303, 119-125	9.6	57
5	Using chitosan as a thickener for electrospinning dilute PVA solutions to improve fibre uniformity. <i>Nanotechnology</i> , 2006 , 17, 3718-3723	3.4	61
4	The effects of dye dopants on the conductivity and optical absorption properties of polypyrrole. <i>Synthetic Metals</i> , 2006 , 156, 1194-1202	3.6	82

3	Polypyrrole nanoparticles and dye absorption properties. <i>Synthetic Metals</i> , 2005 , 151, 136-140	3.6	43
2	The charge effect of cationic surfactants on the elimination of fibre beads in the electrospinning of polystyrene. <i>Nanotechnology</i> , 2004 , 15, 1375-1381	3.4	261
1	An Easy-to-Install Textile Bending Sensor with High Sensitivity, Linearity, and Multidirection Direction Capability. <i>Advanced Materials Technologies</i> , 2100830	6.8	0