Xiao-Hong Qin

List of Publications by Year
in descending order

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120 papers	4,627 citations	87843 38 h-index	118793 62 g-index
121 all docs	121 docs citations	121 times ranked	5139 citing authors

#	Article	IF	Citations
1	A Rapidâ€Ab/Desorption and Portable Photothermal MILâ€101(Cr) Nanofibrous Composite Membrane Fabricated by Sprayâ€Electrospinning for Atmosphere Water Harvesting. Energy and Environmental Materials, 2023, 6, .	7.3	8
2	Effect of de-sizing on the structural and mechanical properties of carbon fiber reinforced polypropylene composites molded by the novel direct fiber feeding injection molding technology. Journal of Thermoplastic Composite Materials, 2023, 36, 1847-1876.	2.6	8
3	Investigation on the processability, structure and properties of micro-/nano-fiber composite yarns produced by trans-scale spinning. Journal of Industrial Textiles, 2022, 51, 5409S-5426S.	1.1	4
4	Mass production of polyacrylonitrile sub-micron fibrous webs with different aligned degrees via free surface electrospinning for air purification. Textile Reseach Journal, 2022, 92, 2731-2741.	1.1	2
5	Bioinspired design of electrospun nanofiber based aerogel for efficient and cost-effective solar vapor generation. Chemical Engineering Journal, 2022, 427, 131539.	6.6	51
6	Fiber-intercepting-particle structured MOF fabrics for simultaneous solar vapor generation and organic pollutant adsorption. Chemical Engineering Journal, 2022, 428, 131365.	6.6	37
7	Tailoring body surface infrared radiation behavior through colored nanofibers for efficient passive radiative heating textiles. Chemical Engineering Journal, 2022, 430, 133093.	6.6	31
8	Diameter Refinement of Electrospun Nanofibers: From Mechanism, Strategies to Applications. Advanced Fiber Materials, 2022, 4, 145-161.	7.9	28
9	Multiâ€Scale Nanoarchitectured Fibrous Networks for Highâ€Performance, Selfâ€Sterilization, and Recyclable Face Masks. Small, 2022, 18, e2105570.	5.2	36
10	Stretchable Thermoelectrics: Strategies, Performances, and Applications. Advanced Functional Materials, 2022, 32, .	7.8	40
11	Facile fabrication of polydopamine nanosphere-decorated fabric for solar steam generation. Textile Reseach Journal, 2022, 92, 3451-3461.	1.1	2
12	Facile fabrication of reinforced sub-micron fibrous media with hierarchical structure compounded thermally for effective air purification in application. Separation and Purification Technology, 2022, 289, 120726.	3.9	14
13	Silane-functionalized polyionenes-coated cotton fabrics with potent antimicrobial and antiviral activities. Biomaterials, 2022, 284, 121470.	5.7	15
14	Multifunctional hydrogel platform for biofilm scavenging and O2 generating with photothermal effect on diabetic chronic wound healing. Journal of Colloid and Interface Science, 2022, 617, 542-556.	5.0	28
15	Controllable diameter of electrospun nanofibers based on the velocity of whipping jets for high-efficiency air filtration. Science China Technological Sciences, 2022, 65, 481-489.	2.0	6
16	Giving Penetrable Remote-Control Ability to Thermoresponsive Fibrous Composite Actuator with Fast Response Induced by Alternative Magnetic Field. Nanomaterials, 2022, 12, 53.	1.9	6
17	Flexible, self-cleaning, and high-performance ceramic nanofiber-based moist-electric generator enabled by interfacial engineering. Science China Technological Sciences, 2022, 65, 450-457.	2.0	7
18	Emerging design principles, materials, and applications for moisture-enabled electric generation. EScience, 2022, 2, 32-46.	25.0	53

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19	Highly stretchable, durable, and breathable thermoelectric fabrics for human body energy harvesting and sensing. , 2022, 4, 621-632.		74
20	Fiber-microsphere Binary Structured Composite Fibrous Membranes for Waterproof and Breathable Applications. Fibers and Polymers, 2022, 23, 1500-1509.	1.1	5
21	A Precisely Designed Composite Actuator with Directionally Fast Actuation, Nonâ€Contact Operation, and Obstacleâ€Penetrating Triggering Ability Using Aligned Nanofibers and Alternating Magnetic Field. Macromolecular Materials and Engineering, 2022, 307, .	1.7	0
22	A Novel Concept to Produce Submicron-Cotton/Polyester Composite Core-Spun Yarn via Modified Apparatus. Journal of Natural Fibers, 2022, 19, 13232-13242.	1.7	2
23	Continuous manufacture of stretchable and integratable thermoelectric nanofiber yarn for human body energy harvesting and self-powered motion detection. Chemical Engineering Journal, 2022, 450, 137937.	6.6	82
24	Experimental investigation of process parameters for the filtration property of nanofiber membrane fabricated by needleless electrospinning apparatus. Journal of Industrial Textiles, 2021, 50, 1528-1541.	1.1	7
25	Graphene oxide-silver nanocomposites embedded nanofiber core-spun yarns for durable antibacterial textiles. Journal of Colloid and Interface Science, 2021, 584, 164-173.	5.0	63
26	Mass production of high-quality nanofibers via constructing pre-Taylor cones with high curvature on needleless electrospinning. Materials and Design, 2021, 197, 109247.	3.3	36
27	Electrospun nanofiber/cotton composite yarn with enhanced moisture management ability. Textile Reseach Journal, 2021, 91, 1467-1477.	1.1	3
28	One-step fabrication of a stretchable and anti-oil-fouling nanofiber membrane for solar steam generation. Materials Chemistry Frontiers, 2021, 5, 3673-3680.	3.2	28
29	Electrospun nanofiber fabric: an efficient, breathable and wearable moist-electric generator. Journal of Materials Chemistry A, 2021, 9, 7085-7093.	5.2	78
30	Scalable and hierarchically designed MOF fabrics by netting MOFs into nanofiber networks for high-performance solar-driven water purification. Journal of Materials Chemistry A, 2021, 9, 21005-21012.	5.2	15
31	Asymptotic decay of velocity of whipping jet in electrospinning. Polymer, 2021, 217, 123456.	1.8	7
32	Quaternary ammonium saltâ€"modified polyacrylonitrile/polycaprolactone electrospun nanofibers with enhanced antibacterial properties. Textile Reseach Journal, 2021, 91, 2194-2203.	1.1	7
33	A Visually Observable Copper Ion Adsorption Membrane by Electrospinning Combined with Copper Ion Probe. Fibers and Polymers, 2021, 22, 1844-1852.	1.1	6
34	Preparation and characterization of electrospun cellulose acetate sub-micro fibrous membranes. Textile Reseach Journal, 2021, 91, 2540-2550.	1.1	3
35	Plasmonic silver nanoparticle-decorated electrospun nanofiber membrane for interfacial solar vapor generation. Textile Reseach Journal, 2021, 91, 2624-2634.	1.1	16
36	Nanofiber based origami evaporator for multifunctional and omnidirectional solar steam generation. Carbon, 2021, 177, 199-206.	5.4	56

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37	Nanofibers reinforced injectable hydrogel with self-healing, antibacterial, and hemostatic properties for chronic wound healing. Journal of Colloid and Interface Science, 2021, 596, 312-323.	5.0	64
38	High-Performance Solar Steam Generator Based on Polypyrrole-Coated Fabric via 3D Macro- and Microstructure Design. ACS Applied Materials & Interfaces, 2021, 13, 40664-40672.	4.0	45
39	Light scattering tunability of nanofiber membrane for enhancing color yield. Dyes and Pigments, 2021, 193, 109462.	2.0	15
40	PEDOT:PSS/CNT composites based ultra-stretchable thermoelectrics and their application as strain sensors. Composites Communications, 2021, 27, 100822.	3.3	52
41	A rotary spinneret for high output of electrospun fibers with bimodal distribution. European Polymer Journal, 2021, 159, 110707.	2.6	7
42	Slip effect based bimodal nanofibrous membrane for high-efficiency and low-resistance air purification. Separation and Purification Technology, 2021, 275, 119258.	3.9	33
43	Textile waste derived cellulose based composite aerogel for efficient solar steam generation. Composites Communications, 2021, 28, 100936.	3.3	45
44	The migration behavior of electrospun nanofibers within cotton slivers in roller drafting and their effects on composite yarn quality. Textile Reseach Journal, 2021, 91, 1555-1564.	1.1	2
45	Nanofiber fabric based ion-gradient-enhanced moist-electric generator with a sustained voltage output of 1.1 volts. Materials Horizons, 2021, 8, 2303-2309.	6.4	59
46	Sustainable Cellulose Aerogel from Waste Cotton Fabric for High-Performance Solar Steam Generation. ACS Applied Materials & Interfaces, 2021, 13, 49860-49867.	4.0	39
47	Ceramic Nanofiber-Based Water-Induced Electric Generator. ACS Applied Materials & Interfaces, 2021, 13, 56226-56232.	4.0	13
48	Stretchable Thermoelectric-Based Self-Powered Dual-Parameter Sensors with Decoupled Temperature and Strain Sensing. ACS Applied Materials & Interfaces, 2021, 13, 60498-60507.	4.0	59
49	Analyzing the effect of nanofiber orientation on membrane filtration properties with the progressive increase in its thickness: a numerical and experimental approach. Textile Reseach Journal, 2020, 90, 24-36.	1.1	7
50	Functional nanofibers embedded into textiles for durable antibacterial properties. Chemical Engineering Journal, 2020, 384, 123241.	6.6	91
51	Tree-like structure driven water transfer in 1D fiber assemblies for Functional Moisture-Wicking Fabrics. Materials and Design, 2020, 186, 108305.	3.3	46
52	pH-triggered sustained drug release of multilayer encapsulation system with hollow mesoporous silica nanoparticles/chitosan/polyacrylic acid. Materials Letters, 2020, 260, 126907.	1.3	16
53	Hierarchically tunable structure of polystyrene-based microfiber membranes for separation and selective adsorption of oil-water. Applied Surface Science, 2020, 532, 147400.	3.1	36
54	Contact/Release Coordinated Antibacterial Cotton Fabrics Coated with N-Halamine and Cationic Antibacterial Agent for Durable Bacteria-Killing Application. International Journal of Molecular Sciences, 2020, 21, 6531.	1.8	5

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55	3D structure design and simulation for efficient particles capture: The influence of nanofiber diameter and distribution. Materials Today Communications, 2020, 23, 100897.	0.9	9
56	Modified polyacrylonitrile nanofibers for improved dyeability using anionic dyes. Applied Nanoscience (Switzerland), 2020, 10, 2025-2035.	1.6	10
57	Polyacrylonitrile/polyimide composite sub-micro fibrous membranes for precise filtration of PM0.26 pollutants. Journal of Colloid and Interface Science, 2020, 578, 195-206.	5.0	33
58	Large-Scale and Rapid Preparation of Nanofibrous Meshes and Their Application for Drug-Loaded Multilayer Mucoadhesive Patch Fabrication for Mouth Ulcer Treatment. ACS Applied Materials & Interfaces, 2019, 11, 28740-28751.	4.0	32
59	Wettability Control in Tree Structure-Based 1D Fiber Assemblies for Moisture Wicking Functionality. ACS Applied Materials & Interfaces, 2019, 11, 44682-44690.	4.0	23
60	Stable-jet length controlling electrospun fiber radius: Model and experiment. Polymer, 2019, 180, 121762.	1.8	10
61	Asymmetric water affinity on antibacterial electrospun sub-micro cellulose acetate Janus membrane. Materials Letters, 2019, 256, 126607.	1.3	8
62	An efficient hybrid strategy for composite yarns of micro-/nano-fibers. Materials and Design, 2019, 184, 108196.	3.3	17
63	3D printing of silk fibroin-based hybrid scaffold treated with platelet rich plasma for bone tissue engineering. Bioactive Materials, 2019, 4, 256-260.	8.6	76
64	Mass production of nanofibers from needleless electrospinning by a novel annular spinneret. Materials and Design, 2019, 179, 107885.	3.3	82
65	Peptide-Functionalized Amino Acid-Derived Pseudoprotein-Based Hydrogel with Hemorrhage Control and Antibacterial Activity for Wound Healing. Chemistry of Materials, 2019, 31, 4436-4450.	3.2	115
66	Photocatalytic Activity of TiO2 Nanofibers: The Surface Crystalline Phase Matters. Nanomaterials, 2019, 9, 535.	1.9	22
67	Facile fabrication and transistor properties of mixed crystalline TiO2 nanofibers FET devices. Materials Letters, 2019, 246, 99-102.	1.3	10
68	Guanidine Nanogels: Inherent Guanidine Nanogels with Durable Antibacterial and Bacterially Antiadhesive Properties (Adv. Funct. Mater. 12/2019). Advanced Functional Materials, 2019, 29, 1970077.	7.8	6
69	Inherent Guanidine Nanogels with Durable Antibacterial and Bacterially Antiadhesive Properties. Advanced Functional Materials, 2019, 29, 1806594.	7.8	93
70	Hydrophilic and degradable polyesters based on <scp>l</scp>-aspartic acid with antibacterial properties for potential application in hernia repair. Biomaterials Science, 2019, 7, 5404-5413.	2.6	8
71	Electrospun cellulose acetate nanofiber upscaling with a metal plate needleless spinneret. Materials Research Express, 2019, 6, 1250e4.	0.8	9
72	Large-scale preparation of micro-gradient structured sub-micro fibrous membranes with narrow diameter distributions for high-efficiency air purification. Environmental Science: Nano, 2019, 6, 3560-3578.	2.2	31

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73	Electrospun nanofibers of polyelectrolyteâ€"surfactant complexes for antibacterial wound dressing application. Soft Matter, 2019, 15, 10020-10028.	1.2	14
74	Multiple-Jet Needleless Electrospinning Approach via a Linear Flume Spinneret. Polymers, 2019, 11, 2052.	2.0	30
75	Sandwich-structured fibrous membranes with low filtration resistance for effective PM2.5 capture via one-step needleless electrospinning. Materials Research Express, 2019, 6, 035027.	0.8	24
76	Hierarchical catalytic electrodes of cobalt-embedded carbon nanotube/carbon flakes arrays for flexible solid-state zinc-air batteries. Carbon, 2019, 142, 379-387.	5.4	111
77	Fabricated narrow diameter distribution nanofiber for an air filtration membrane using a double rings slit spinneret. Textile Reseach Journal, 2019, 89, 936-947.	1.1	17
78	Theoretical analysis and of three dimensional free surface of electrospinning. Journal of King Saud University - Science, 2019, 31, 460-463.	1.6	6
79	Influence of the processing parameters on needleless electrospinning from double ring slits spinneret using response surface methodology. Journal of Applied Polymer Science, 2018, 135, 46407.	1.3	19
80	Synthesis of carbonized-cellulose nanowhisker/FeS2@reduced graphene oxide composite for highly efficient counter electrodes in dye-sensitized solar cells. Solar Energy, 2018, 166, 71-79.	2.9	28
81	High-throughput nanofiber produced by needleless electrospinning using a metal dish as the spinneret. Textile Reseach Journal, 2018, 88, 80-88.	1.1	27
82	3-Dimensional MWCNT/CuO nanostructures use as an electrochemical catalyst for oxygen evolution reaction. Journal of Alloys and Compounds, 2018, 735, 2311-2317.	2.8	27
83	Raising Nanofiber Output: The Progress, Mechanisms, Challenges, and Reasons for the Pursuit. Macromolecular Materials and Engineering, 2018, 303, 1700269.	1.7	43
84	Facile synthesis of electrospun C@NiO/Ni nanofibers as an electrocatalyst for hydrogen evolution reaction. International Journal of Hydrogen Energy, 2018, 43, 15217-15224.	3.8	30
85	Enhanced electrochemical properties of hierarchically sheath-core aligned carbon nanofibers coated carbon fiber yarn electrode-based supercapacitor via polyaniline nanowire array modification. Journal of Power Sources, 2018, 399, 406-413.	4.0	58
86	Synthesis and characterization of arginine-NIPAAm hybrid hydrogel as wound dressing: In vitro and in vivo study. Acta Biomaterialia, 2018, 65, 305-316.	4.1	107
87	Preparation and characterization of microporous sodium poly(aspartic acid) nanofibrous hydrogel. Journal of Porous Materials, 2017, 24, 75-84.	1.3	13
88	Living nano-micro fibrous woven fabric/hydrogel composite scaffolds for heart valve engineering. Acta Biomaterialia, 2017, 51, 89-100.	4.1	81
89	Design of 3-Dimensional Hierarchical Architectures of Carbon and Highly Active Transition Metals (Fe,) Tj ETQq1 1 0.784314 rgBT /Ov 2017, 29, 1665-1675.	3.2	104
90	A low filtration resistance three-dimensional composite membrane fabricated via free surface electrospinning for effective PM_{2.5} capture. Environmental Science: Nano, 2017, 4, 864-875.	2.2	131

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91	Evaluation of electrospun biomimetic substrate surface-decorated with nanohydroxyapatite precipitation for osteoblasts behavior. Materials Science and Engineering C, 2017, 79, 687-696.	3.8	21
92	Flexible and conductive nanofiber-structured single yarn sensor for smart wearable devices. Sensors and Actuators B: Chemical, 2017, 252, 697-705.	4.0	104
93	Design and synthesis of porous channel-rich carbon nanofibers for self-standing oxygen reduction reaction and hydrogen evolution reaction bifunctional catalysts in alkaline medium. Journal of Materials Chemistry A, 2017, 5, 7507-7515.	5.2	69
94	Thin MoS₂ nanosheets grafted MOFs-derived porous Coâ€"Nâ€"C flakes grown on electrospun carbon nanofibers as self-supported bifunctional catalysts for overall water splitting. Journal of Materials Chemistry A, 2017, 5, 23898-23908.	5.2	131
95	Nanofiber-structured hydrogel yarns with pH-response capacity and cardiomyocyte-drivability for bio-microactuator application. Acta Biomaterialia, 2017, 60, 144-153.	4.1	16
96	A novel approach for fabricating antibacterial nanofiber/cotton hybrid yarns. Fibers and Polymers, 2017, 18, 987-992.	1.1	16
97	Numerical simulation of a two-dimensional flapping wing in advanced mode. Journal of Hydrodynamics, 2017, 29, 1076-1080.	1.3	2
98	A Fast Response Ammonia Sensor Based on Coaxial PPyâ€"PAN Nanofiber Yarn. Nanomaterials, 2016, 6, 121.	1.9	32
99	Polyacrylonitrile nanofiber yarns and fabrics produced using a novel electrospinning method combined with traditional textile techniques. Textile Reseach Journal, 2016, 86, 1716-1727.	1.1	32
100	Fabrication of Aligned Nanofiber Polymer Yarn Networks for Anisotropic Soft Tissue Scaffolds. ACS Applied Materials & Interfaces, 2016, 8, 16950-16960.	4.0	102
101	Effect of processing parameters on free surface electrospinning from a stepped pyramid stage. Journal of Industrial Textiles, 2016, 45, 483-494.	1.1	19
102	Poly-3-hydroxybutyrate-co-3-hydroxyvalerate containing scaffolds and their integration with osteoblasts as a model for bone tissue engineering. Journal of Biomaterials Applications, 2015, 29, 1394-1406.	1.2	22
103	An improved free surface electrospinning with micro-bubble solution system for massive production of nanofibers. Materials Letters, 2015, 144, 22-25.	1.3	35
104	A reversible colorimetric chemosensor for naked-eye detection of copper ions using poly (aspartic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.0	27
105	Biocomposite scaffolds for bone regeneration: Role of chitosan and hydroxyapatite within poly-3-hydroxybutyrate-co-3-hydroxyvalerate on mechanical properties and in vitro evaluation. Journal of the Mechanical Behavior of Biomedical Materials, 2015, 51, 88-98.	1.5	62
106	Guiding the orientation of smooth muscle cells on random and aligned polyurethane/collagen nanofibers. Journal of Biomaterials Applications, 2014, 29, 364-377.	1.2	47
107	An improved free surface electrospinning for high throughput manufacturing of coreâ€"shell nanofibers. Materials Letters, 2014, 128, 259-262.	1.3	56
108	Facile fabrication of novel pH-sensitive poly(aspartic acid) hydrogel by crosslinking nanofibers. Materials Letters, 2014, 132, 393-396.	1.3	24

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109	Effects of the stabilization temperature on the structure and properties of polyacrylonitrile-based stabilized electrospun nanofiber microyarns. Journal of Thermal Analysis and Calorimetry, 2014, 116, 303-308.	2.0	30
110	Biocompatibility evaluation of protein-incorporated electrospun polyurethane-based scaffolds with smooth muscle cells for vascular tissue engineering. Journal of Materials Science, 2013, 48, 5113-5124.	1.7	37
111	High throughput of quality nanofibers via one stepped pyramid-shaped spinneret. Materials Letters, 2013, 106, 56-58.	1.3	79
112	The effect of different surfactants on the electrospinning poly(vinyl alcohol) (PVA) nanofibers. Journal of Thermal Analysis and Calorimetry, 2013, 112, 595-605.	2.0	55
113	Uniaxially aligned polyacrylonitrile nanofiber yarns prepared by a novel modified electrospinning method. Materials Letters, 2013, 106, 204-207.	1.3	69
114	The study on the air volume fraction of electrospun nanofiber nonwoven mats. Fibers and Polymers, 2010, 11, 632-637.	1.1	15
115	Electrospun nanofibers from crosslinked poly(vinyl alcohol) and its filtration efficiency. Journal of Applied Polymer Science, 2008, 109, 951-956.	1.3	124
116	Filtration properties of electrospinning nanofibers. Journal of Applied Polymer Science, 2006, 102, 1285-1290.	1.3	334
117	Effect of LiCl on electrospinning of PAN polymer solution: theoretical analysis and experimental verification. Polymer, 2004, 45, 6409-6413.	1.8	102
118	Contact force within electrospun nanofiber core-spun yarns and moisture management ability of their fabrics. Journal of the Textile Institute, 0, , 1-13.	1.0	3
119	Dyeing of polyacrylonitrile nanofibers with CI Reactive Red 2 enabled by the introduction of polyethyleneimine. Textile Reseach Journal, 0, , 004051752110642.	1.1	0
120	Jet diameter of the first coil in the electrospinning whipping region: the role of fluid viscosity. Textile Reseach Journal, 0, , 004051752210806.	1.1	0