

Xiao-Hong Qin

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114
papers

2,782
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27
h-index

48
g-index

121
ext. papers

3,594
ext. citations

6.3
avg, IF

5.77
L-index

#	Paper	IF	Citations
114	Filtration properties of electrospinning nanofibers. <i>Journal of Applied Polymer Science</i> , 2006 , 102, 1285-1290	12.90	289
113	A low filtration resistance three-dimensional composite membrane fabricated via free surface electrospinning for effective PM2.5 capture. <i>Environmental Science: Nano</i> , 2017 , 4, 864-875	7.1	108
112	Electrospun nanofibers from crosslinked poly(vinyl alcohol) and its filtration efficiency. <i>Journal of Applied Polymer Science</i> , 2008 , 109, 951-956	2.9	107
111	Thin MoS ₂ nanosheets grafted MOFs-derived porous Co ₃ O ₄ flakes grown on electrospun carbon nanofibers as self-supported bifunctional catalysts for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 23898-23908	13	98
110	Design of 3-Dimensional Hierarchical Architectures of Carbon and Highly Active Transition Metals (Fe, Co, Ni) as Bifunctional Oxygen Catalysts for Hybrid Lithium-Air Batteries. <i>Chemistry of Materials</i> , 2017 , 29, 1665-1675	9.6	91
109	Effect of LiCl on electrospinning of PAN polymer solution: theoretical analysis and experimental verification. <i>Polymer</i> , 2004 , 45, 6409-6413	3.9	89
108	Hierarchical catalytic electrodes of cobalt-embedded carbon nanotube/carbon flakes arrays for flexible solid-state zinc-air batteries. <i>Carbon</i> , 2019 , 142, 379-387	10.4	82
107	Synthesis and characterization of arginine-NIPAAm hybrid hydrogel as wound dressing: In vitro and in vivo study. <i>Acta Biomaterialia</i> , 2018 , 65, 305-316	10.8	79
106	Fabrication of Aligned Nanofiber Polymer Yarn Networks for Anisotropic Soft Tissue Scaffolds. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 16950-60	9.5	76
105	Flexible and conductive nanofiber-structured single yarn sensor for smart wearable devices. <i>Sensors and Actuators B: Chemical</i> , 2017 , 252, 697-705	8.5	70
104	High throughput of quality nanofibers via one stepped pyramid-shaped spinneret. <i>Materials Letters</i> , 2013 , 106, 56-58	3.3	66
103	Living nano-micro fibrous woven fabric/hydrogel composite scaffolds for heart valve engineering. <i>Acta Biomaterialia</i> , 2017 , 51, 89-100	10.8	62
102	Peptide-Functionalized Amino Acid-Derived Pseudoprotein-Based Hydrogel with Hemorrhage Control and Antibacterial Activity for Wound Healing. <i>Chemistry of Materials</i> , 2019 , 31, 4436-4450	9.6	60
101	Design and synthesis of porous channel-rich carbon nanofibers for self-standing oxygen reduction reaction and hydrogen evolution reaction bifunctional catalysts in alkaline medium. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 7507-7515	13	59
100	Inherent Guanidine Nanogels with Durable Antibacterial and Bacterially Antiadhesive Properties. <i>Advanced Functional Materials</i> , 2019 , 29, 1806594	15.6	59
99	Uniaxially aligned polyacrylonitrile nanofiber yarns prepared by a novel modified electrospinning method. <i>Materials Letters</i> , 2013 , 106, 204-207	3.3	59
98	Biocomposite scaffolds for bone regeneration: Role of chitosan and hydroxyapatite within poly-3-hydroxybutyrate-co-3-hydroxyvalerate on mechanical properties and in vitro evaluation. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015 , 51, 88-98	4.1	52

97	An improved free surface electrospinning for high throughput manufacturing of core-shell nanofibers. <i>Materials Letters</i> , 2014 , 128, 259-262	3.3	49
96	Functional nanofibers embedded into textiles for durable antibacterial properties. <i>Chemical Engineering Journal</i> , 2020 , 384, 123241	14.7	49
95	Mass production of nanofibers from needleless electrospinning by a novel annular spinneret. <i>Materials and Design</i> , 2019 , 179, 107885	8.1	47
94	Enhanced electrochemical properties of hierarchically sheath-core aligned carbon nanofibers coated carbon fiber yarn electrode-based supercapacitor via polyaniline nanowire array modification. <i>Journal of Power Sources</i> , 2018 , 399, 406-413	8.9	44
93	Guiding the orientation of smooth muscle cells on random and aligned polyurethane/collagen nanofibers. <i>Journal of Biomaterials Applications</i> , 2014 , 29, 364-77	2.9	44
92	3D printing of silk fibroin-based hybrid scaffold treated with platelet rich plasma for bone tissue engineering. <i>Bioactive Materials</i> , 2019 , 4, 256-260	16.7	42
91	The effect of different surfactants on the electrospinning poly(vinyl alcohol) (PVA) nanofibers. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013 , 112, 595-605	4.1	38
90	Biocompatibility evaluation of protein-incorporated electrospun polyurethane-based scaffolds with smooth muscle cells for vascular tissue engineering. <i>Journal of Materials Science</i> , 2013 , 48, 5113-5124	4.3	34
89	Effects of the stabilization temperature on the structure and properties of polyacrylonitrile-based stabilized electrospun nanofiber microyarns. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014 , 116, 303-308	4.1	28
88	An improved free surface electrospinning with micro-bubble solution system for massive production of nanofibers. <i>Materials Letters</i> , 2015 , 144, 22-25	3.3	27
87	A Fast Response Ammonia Sensor Based on Coaxial PPy-PAN Nanofiber Yarn. <i>Nanomaterials</i> , 2016 , 6,	5.4	27
86	Graphene oxide-silver nanocomposites embedded nanofiber core-spun yarns for durable antibacterial textiles. <i>Journal of Colloid and Interface Science</i> , 2021 , 584, 164-173	9.3	27
85	Electrospun nanofiber fabric: an efficient, breathable and wearable moist-electric generator. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 7085-7093	13	27
84	Raising Nanofiber Output: The Progress, Mechanisms, Challenges, and Reasons for the Pursuit. <i>Macromolecular Materials and Engineering</i> , 2018 , 303, 1700269	3.9	26
83	High-throughput nanofiber produced by needleless electrospinning using a metal dish as the spinneret. <i>Textile Reseach Journal</i> , 2018 , 88, 80-88	1.7	25
82	Facile synthesis of electrospun C@NiO/Ni nanofibers as an electrocatalyst for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 15217-15224	6.7	25
81	Polyacrylonitrile nanofiber yarns and fabrics produced using a novel electrospinning method combined with traditional textile techniques. <i>Textile Reseach Journal</i> , 2016 , 86, 1716-1727	1.7	24
80	A reversible colorimetric chemosensor for naked-eye detection of copper ions using poly (aspartic acid) nanofibrous hydrogel. <i>Dyes and Pigments</i> , 2015 , 123, 380-385	4.6	22

79	Nanofibers reinforced injectable hydrogel with self-healing, antibacterial, and hemostatic properties for chronic wound healing. <i>Journal of Colloid and Interface Science</i> , 2021 , 596, 312-323	9.3	22
78	Synthesis of carbonized-cellulose nanowhisiker/FeS ₂ @reduced graphene oxide composite for highly efficient counter electrodes in dye-sensitized solar cells. <i>Solar Energy</i> , 2018 , 166, 71-79	6.8	21
77	Large-Scale and Rapid Preparation of Nanofibrous Meshes and Their Application for Drug-Loaded Multilayer Mucoadhesive Patch Fabrication for Mouth Ulcer Treatment. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 28740-28751	9.5	20
76	Poly-3-hydroxybutyrate-co-3-hydroxyvalerate containing scaffolds and their integration with osteoblasts as a model for bone tissue engineering. <i>Journal of Biomaterials Applications</i> , 2015 , 29, 1394-406	2.0	20
75	Tree-like structure driven water transfer in 1D fiber assemblies for Functional Moisture-Wicking Fabrics. <i>Materials and Design</i> , 2020 , 186, 108305	8.1	20
74	Hierarchically tunable structure of polystyrene-based microfiber membranes for separation and selective adsorption of oil-water. <i>Applied Surface Science</i> , 2020 , 532, 147400	6.7	19
73	Sandwich-structured fibrous membranes with low filtration resistance for effective PM _{2.5} capture via one-step needleless electrospinning. <i>Materials Research Express</i> , 2019 , 6, 035027	1.7	19
72	3-Dimensional MWCNT/CuO nanostructures use as an electrochemical catalyst for oxygen evolution reaction. <i>Journal of Alloys and Compounds</i> , 2018 , 735, 2311-2317	5.7	19
71	Evaluation of electrospun biomimetic substrate surface-decorated with nanohydroxyapatite precipitation for osteoblasts behavior. <i>Materials Science and Engineering C</i> , 2017 , 79, 687-696	8.3	18
70	Facile fabrication of novel pH-sensitive poly(aspartic acid) hydrogel by crosslinking nanofibers. <i>Materials Letters</i> , 2014 , 132, 393-396	3.3	18
69	Effect of processing parameters on free surface electrospinning from a stepped pyramid stage. <i>Journal of Industrial Textiles</i> , 2016 , 45, 483-494	1.6	17
68	Influence of the processing parameters on needleless electrospinning from double ring slits spinneret using response surface methodology. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 46407	2.9	16
67	Nanofiber based origami evaporator for multifunctional and omnidirectional solar steam generation. <i>Carbon</i> , 2021 , 177, 199-206	10.4	16
66	Fabricated narrow diameter distribution nanofiber for an air filtration membrane using a double rings slit spinneret. <i>Textile Research Journal</i> , 2019 , 89, 936-947	1.7	16
65	One-step fabrication of a stretchable and anti-oil-fouling nanofiber membrane for solar steam generation. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 3673-3680	7.8	16
64	Multiple-Jet Needleless Electrospinning Approach via a Linear Flume Spinneret. <i>Polymers</i> , 2019 , 11,	4.5	15
63	Mass production of high-quality nanofibers via constructing pre-Taylor cones with high curvature on needleless electrospinning. <i>Materials and Design</i> , 2021 , 197, 109247	8.1	15
62	Polyacrylonitrile/polyimide composite sub-micro fibrous membranes for precise filtration of PM pollutants. <i>Journal of Colloid and Interface Science</i> , 2020 , 578, 195-206	9.3	14

61	An efficient hybrid strategy for composite yarns of micro-/nano-fibers. <i>Materials and Design</i> , 2019 , 184, 108196	8.1	13
60	Wettability Control in Tree Structure-Based 1D Fiber Assemblies for Moisture Wicking Functionality. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 44682-44690	9.5	13
59	Nanofiber-structured hydrogel yarns with pH-response capacity and cardiomyocyte-drivability for bio-microactuator application. <i>Acta Biomaterialia</i> , 2017 , 60, 144-153	10.8	13
58	A novel approach for fabricating antibacterial nanofiber/cotton hybrid yarns. <i>Fibers and Polymers</i> , 2017 , 18, 987-992	2	13
57	The study on the air volume fraction of electrospun nanofiber nonwoven mats. <i>Fibers and Polymers</i> , 2010 , 11, 632-637	2	13
56	Large-scale preparation of micro-gradient structured sub-micro fibrous membranes with narrow diameter distributions for high-efficiency air purification. <i>Environmental Science: Nano</i> , 2019 , 6, 3560-3578 ¹	7.1	13
55	Photocatalytic Activity of TiO ₂ Nanofibers: The Surface Crystalline Phase Matters. <i>Nanomaterials</i> , 2019 , 9,	5.4	12
54	High-Performance Solar Steam Generator Based on Polypyrrole-Coated Fabric via 3D Macro- and Microstructure Design. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 40664-40672	9.5	12
53	Nanofiber fabric based ion-gradient-enhanced moist-electric generator with a sustained voltage output of 1.1 volts. <i>Materials Horizons</i> , 2021 , 8, 2303-2309	14.4	12
52	Stretchable Thermoelectric-Based Self-Powered Dual-Parameter Sensors with Decoupled Temperature and Strain Sensing. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	12
51	Textile waste derived cellulose based composite aerogel for efficient solar steam generation. <i>Composites Communications</i> , 2021 , 28, 100936	6.7	10
50	Fiber-intercepting-particle structured MOF fabrics for simultaneous solar vapor generation and organic pollutant adsorption. <i>Chemical Engineering Journal</i> , 2022 , 428, 131365	14.7	10
49	Facile fabrication and transistor properties of mixed crystalline TiO ₂ nanofibers FET devices. <i>Materials Letters</i> , 2019 , 246, 99-102	3.3	9
48	Stable-jet length controlling electrospun fiber radius: Model and experiment. <i>Polymer</i> , 2019 , 180, 121763.9	3.9	9
47	pH-triggered sustained drug release of multilayer encapsulation system with hollow mesoporous silica nanoparticles/chitosan/polyacrylic acid. <i>Materials Letters</i> , 2020 , 260, 126907	3.3	9
46	PEDOT:PSS/CNT composites based ultra-stretchable thermoelectrics and their application as strain sensors. <i>Composites Communications</i> , 2021 , 27, 100822	6.7	9
45	Preparation and characterization of microporous sodium poly(aspartic acid) nanofibrous hydrogel. <i>Journal of Porous Materials</i> , 2017 , 24, 75-84	2.4	8
44	Sustainable Cellulose Aerogel from Waste Cotton Fabric for High-Performance Solar Steam Generation. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 49860-49867	9.5	8

43	Bioinspired design of electrospun nanofiber based aerogel for efficient and cost-effective solar vapor generation. <i>Chemical Engineering Journal</i> , 2022 , 427, 131539	14.7	8
42	Asymmetric water affinity on antibacterial electrospun sub-micro cellulose acetate Janus membrane. <i>Materials Letters</i> , 2019 , 256, 126607	3.3	7
41	Scalable and hierarchically designed MOF fabrics by netting MOFs into nanofiber networks for high-performance solar-driven water purification. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 21005-21012 ¹³	2.3	7
40	3D structure design and simulation for efficient particles capture: The influence of nanofiber diameter and distribution. <i>Materials Today Communications</i> , 2020 , 23, 100897	2.5	6
39	Hydrophilic and degradable polyesters based on l-aspartic acid with antibacterial properties for potential application in hernia repair. <i>Biomaterials Science</i> , 2019 , 7, 5404-5413	7.4	6
38	Electrospun nanofibers of polyelectrolyte-surfactant complexes for antibacterial wound dressing application. <i>Soft Matter</i> , 2019 , 15, 10020-10028	3.6	6
37	Light scattering tunability of nanofiber membrane for enhancing color yield. <i>Dyes and Pigments</i> , 2021 , 193, 109462	4.6	6
36	Slip effect based bimodal nanofibrous membrane for high-efficiency and low-resistance air purification. <i>Separation and Purification Technology</i> , 2021 , 275, 119258	8.3	6
35	Modified polyacrylonitrile nanofibers for improved dyeability using anionic dyes. <i>Applied Nanoscience (Switzerland)</i> , 2020 , 10, 2025-2035	3.3	5
34	Diameter Refinement of Electrospun Nanofibers: From Mechanism, Strategies to Applications. <i>Advanced Fiber Materials</i> , ¹	10.9	5
33	Tailoring body surface infrared radiation behavior through colored nanofibers for efficient passive radiative heating textiles. <i>Chemical Engineering Journal</i> , 2021 , 133093	14.7	5
32	Plasmonic silver nanoparticle-decorated electrospun nanofiber membrane for interfacial solar vapor generation. <i>Textile Reseach Journal</i> ,004051752110149	1.7	5
31	Electrospun cellulose acetate nanofiber upscaling with a metal plate needleless spinneret. <i>Materials Research Express</i> , 2019 , 6, 1250e4	1.7	5
30	Theoretical analysis and of three dimensional free surface of electrospinning. <i>Journal of King Saud University - Science</i> , 2019 , 31, 460-463	3.6	5
29	Experimental investigation of process parameters for the filtration property of nanofiber membrane fabricated by needleless electrospinning apparatus. <i>Journal of Industrial Textiles</i> , 2021 , 50, 1528-1541	1.6	5
28	Asymptotic decay of velocity of whipping jet in electrospinning. <i>Polymer</i> , 2021 , 217, 123456	3.9	5
27	A rotary spinneret for high output of electrospun fibers with bimodal distribution. <i>European Polymer Journal</i> , 2021 , 159, 110707	5.2	5
26	Guanidine Nanogels: Inherent Guanidine Nanogels with Durable Antibacterial and Bacterially Antiadhesive Properties (Adv. Funct. Mater. 12/2019). <i>Advanced Functional Materials</i> , 2019 , 29, 1970077 ^{15.6}	15.6	4

25	Stretchable Thermoelectrics: Strategies, Performances, and Applications. <i>Advanced Functional Materials</i> , 2022 , 32, 2109790	15.6	4
24	Multi-Scale Nanoarchitected Fibrous Networks for High-Performance, Self-Sterilization, and Recyclable Face Masks. <i>Small</i> , 2021 , 18, e2105570	11	3
23	A Visually Observable Copper Ion Adsorption Membrane by Electrospinning Combined with Copper Ion Probe. <i>Fibers and Polymers</i> , 2021 , 22, 1844-1852	2	3
22	Analyzing the effect of nanofiber orientation on membrane filtration properties with the progressive increase in its thickness: a numerical and experimental approach. <i>Textile Reseach Journal</i> , 2020 , 90, 24-36	1.7	3
21	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. <i>Journal of Thermoplastic Composite Materials</i> ,089270572210778	1.9	3
20	Silane-functionalized polyionenes-coated cotton fabrics with potent antimicrobial and antiviral activities.. <i>Biomaterials</i> , 2022 , 284, 121470	15.6	3
19	Ceramic Nanofiber-Based Water-Induced Electric Generator. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 56226-56232	9.5	2
18	Investigation on the processability, structure and properties of micro-/nano-fiber composite yarns produced by trans-scale spinning. <i>Journal of Industrial Textiles</i> , 2020 , 152808372094117	1.6	2
17	Electrospun nanofiber/cotton composite yarn with enhanced moisture management ability. <i>Textile Reseach Journal</i> , 2021 , 91, 1467-1477	1.7	2
16	The migration behavior of electrospun nanofibers within cotton slivers in roller drafting and their effects on composite yarn quality. <i>Textile Reseach Journal</i> , 2021 , 91, 1555-1564	1.7	2
15	Numerical simulation of a two-dimensional flapping wing in advanced mode. <i>Journal of Hydrodynamics</i> , 2017 , 29, 1076-1080	3.3	1
14	Contact/Release Coordinated Antibacterial Cotton Fabrics Coated with N-Halamine and Cationic Antibacterial Agent for Durable Bacteria-Killing Application. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	1
13	Contact force within electrospun nanofiber core-spun yarns and moisture management ability of their fabrics. <i>Journal of the Textile Institute</i> ,1-13	1.5	1
12	Facile fabrication of reinforced sub-micron fibrous media with hierarchical structure compounded thermally for effective air purification in application.. <i>Separation and Purification Technology</i> , 2022 , 120726	8.2	1
11	Controllable diameter of electrospun nanofibers based on the velocity of whipping jets for high-efficiency air filtration. <i>Science China Technological Sciences</i> , 2022 , 65, 481-489	3.5	1
10	Giving Penetrable Remote-Control Ability to Thermoresponsive Fibrous Composite Actuator with Fast Response Induced by Alternative Magnetic Field.. <i>Nanomaterials</i> , 2021 , 12,	5.4	1
9	Quaternary ammonium salt modified polyacrylonitrile/polycaprolactone electrospun nanofibers with enhanced antibacterial properties. <i>Textile Reseach Journal</i> ,004051752199718	1.7	0
8	Mass production of polyacrylonitrile sub-micron fibrous webs with different aligned degrees via free surface electrospinning for air purification. <i>Textile Reseach Journal</i> ,004051752110106	1.7	0

7	Facile fabrication of polydopamine nanosphere-decorated fabric for solar steam generation. <i>Textile Reseach Journal</i> ,004051752210770	1.7	○
6	Multifunctional hydrogel platform for biofilm scavenging and O generating with photothermal effect on diabetic chronic wound healing.. <i>Journal of Colloid and Interface Science</i> , 2022 , 617, 542-556	9.3	○
5	Flexible, self-cleaning, and high-performance ceramic nanofiber-based moist-electric generator enabled by interfacial engineering. <i>Science China Technological Sciences</i> , 2022 , 65, 450-457	3.5	○
4	Dyeing of polyacrylonitrile nanofibers with CI Reactive Red 2 enabled by the introduction of polyethyleneimine. <i>Textile Reseach Journal</i> ,004051752110642	1.7	
3	Preparation and characterization of electrospun cellulose acetate sub-micro fibrous membranes. <i>Textile Reseach Journal</i> ,004051752110117	1.7	
2	Jet diameter of the first coil in the electrospinning whipping region: the role of fluid viscosity. <i>Textile Reseach Journal</i> ,004051752210806	1.7	
1	A Precisely Designed Composite Actuator with Directionally Fast Actuation, Non-Contact Operation, and Obstacle-Penetrating Triggering Ability Using Aligned Nanofibers and Alternating Magnetic Field. <i>Macromolecular Materials and Engineering</i> ,2200219	3.9	