Binjie Xin

List of Publications by Year
in descending order

85	769	566801 15	713013 21
papers	citations	h-index	g-index

85	85	85	702
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Flexible and highly conductive Ag/G-coated cotton fabric based on graphene dipping and silver magnetron sputtering. Cellulose, 2018, 25, 3691-3701.	2.4	45
2	Carbonization of electrospun polyacrylonitrile (PAN)/cellulose nanofibril (CNF) hybrid membranes and its mechanism. Cellulose, 2020, 27, 3789-3804.	2.4	34
3	Waterproof and breathable polyacrylonitrile/(polyurethane/fluorinated-silica) composite nanofiber membrane via side-by-side electrospinning. Journal of Materials Research, 2020, 35, 1173-1181.	1.2	31
4	Preparation of Waterproof and Breathable Polyurethane Fiber Membrane Modified by Fluorosilane-modified Silica. Fibers and Polymers, 2020, 21, 954-964.	1.1	25
5	Coaxial Electrospinning: Jet Motion, Coreâ€“Shell Fiber Morphology, and Structure as a Function of Material Parameters. Industrial & Engineering Chemistry Research, 2020, 59, 6301-6308.	1.8	22
6	Effect of Electric Field on the Directly Electrospun Nanofiber Yarns: Simulation and Experimental Study. Fibers and Polymers, 2018, 19, 116-124.	1.1	21
7	Identification of Extremely Similar Animal Fibers Based on Matched Filter and HOG-SVM. IEEE Access, 2019, 7, 98603-98617.	2.6	21
8	A Review of Yarn Appearance Evaluation Based on Image Analysis Technology. Research Journal of Textile and Apparel, 2013, 17, 1-11.	0.6	20
9	Preparation and Characterization of Electrospun PAN/PSA Carbonized Nanofibers: Experiment and Simulation Study. Nanomaterials, 2018, 8, 821.	1.9	20
10	Automatic identification of cashmere and wool fibers based on the morphological features analysis. Micron, 2020, 128, 102768.	1.1	20
11	Electrochemical analysis of conducting reduced graphene oxide/polyaniline/polyvinyl alcohol nanofibers as supercapacitor electrodes. Journal of Materials Science: Materials in Electronics, 2020, 31, 5958-5965.	1.1	20
12	Investigation of a novel automatic micro image-based method for the recognition of animal fibers based on Wavelet and Markov Random Field. Micron, 2019, 119, 88-97.	1.1	19
13	Surface functionalization of Ag/polypyrrole-coated cotton fabric by in situ polymerization and magnetron sputtering. Textile Reseach Journal, 2019, 89, 4884-4895.	1.1	18
14	Functionalization of cotton by reduced graphene oxide for improved electrical conductivity. Textile Reseach Journal, 2019, 89, 1038-1050.	1.1	18
15	Investigation into Jet Motion and Fiber Properties Induced by Electric Fields in Melt Electrospinning. Industrial & Engineering Chemistry Research, 2020, 59, 2163-2170.	1.8	17
16	Fabrication and characterization of electrospun cellulose/polyacrylonitrile nanofibers with Cu(II) ions. Cellulose, 2018, 25, 2955-2963.	2.4	16
17	Tailoring doubleâ€layered fibrous mat of modified polypropylene/cotton fabric for the function of directional moisture transport. Journal of Applied Polymer Science, 2020, 137, 49530.	1.3	16
18	Preparation and characterization of polysulfone amide nanoyarns by the dynamic rotating electrospinning method. Textile Reseach Journal, 2019, 89, 52-62.	1.1	15

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19	Effects of Jet Path on Electrospun Polystyrene Fibers. Polymers, 2018, 10, 842.	2.0	14
20	Preparation and characterization of polyvinylidene fluoride/polysulfone-amide composite nanofiber mats. Journal of the Textile Institute, 2019, 110, 815-821.	1.0	14
21	Fabrication and characterization of flexible electrochromic membrane based on polyaniline/reduced graphene oxide. Journal of Materials Research, 2019, 34, 1302-1308.	1.2	14
22	Enhancing the supercapacitor performance of flexible <scp>MXene</scp> /carbon cloth electrodes by oxygen plasma and chemistry modification. International Journal of Energy Research, 2021, 45, 9229-9240.	2.2	14
23	An investigation on the comparison of wet spinning and electrospinning: Experimentation and simulation. Fibers and Polymers, 2017, 18, 1160-1170.	1.1	13
24	Preparation and characterization of waterborne polyurethane nail enamel modified by silane coupling agent. Journal of Coatings Technology Research, 2020, 17, 1377-1387.	1.2	13
25	Moisture-Wicking and Solar-Heated Coaxial Fibers with a Bark-like Appearance for Fabric Comfort Management. ACS Applied Materials & Interfaces, 2021, 13, 26590-26600.	4.0	13
26	The Application of Deep and Transfer Learning for Identifying Cashmere and Wool Fibers. Journal of Natural Fibers, 2022, 19, 88-104.	1.7	12
27	3D microstructure reconstruction of nonwoven fabrics based on depth from focus. Micron, 2021, 144, 103035.	1.1	12
28	Application of surface wettability modified polypropylene nonwoven in Janus composite fibrous mats for the function of directional water transport. Polymers for Advanced Technologies, 2019, 30, 3038-3048.	1.6	10
29	BSA loaded bead-on-string nanofiber scaffold with core-shell structure applied in tissue engineering. Journal of Biomaterials Science, Polymer Edition, 2020, 31, 1223-1236.	1.9	10
30	Preparation and characterization of wormwood-oil-contained microcapsules. Journal of Microencapsulation, 2020, 37, 324-331.	1.2	10
31	Preparation, structure and electrochromic behavior of PANI/PVA composite electrospun nanofiber. Textile Reseach Journal, 2019, 89, 2490-2499.	1.1	9
32	The Effects of Electric Field on Jet Behavior and Fiber Properties in Melt Electrospinning. Fibers and Polymers, 2020, 21, 984-992.	1.1	9
33	Effects of surface morphology of electrospun polystyrene fiber on its air filtration performance. Journal of Industrial Textiles, 2022, 51, 3077S-3093S.	1.1	9
34	Preparation and Characterization of PMIA Nanofiber Filter Membrane for Air Filter. Fibers and Polymers, 2021, 22, 2413-2423.	1.1	9
35	Doxorubicin hydrochlorideâ€loaded electrospun poly(<scp>l</scp>â€lactideâ€coâ€Îµâ€caprolactone)/gelatin coreâ€“shell nanofibers for controlled drug release. Polymer International, 2021, 70, 1717-1724.	1.6	9
36	Drug-loaded PLCL/PEO-SA bilayer nanofibrous membrane for controlled release. Journal of Biomaterials Science, Polymer Edition, 2021, 32, 2331-2348.	1.9	9

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37	High-Efficiency Electro/Solar-Driven Wearable Heater Tailored by Superelastic Hollow-Porous Polypyrrole/Polyurethane/Zirconium Carbide Fibers for Personal Cold Protection. ACS Applied Materials & Interfaces, 2022, 14, 24820-24831.	4.0	9
38	Y2O3:Eu3+ luminescent thin film deposited on quartz fiber by electron beam evaporation technology. Journal of Materials Science: Materials in Electronics, 2015, 26, 4113-4118.	1.1	8
39	Effects of Temperature on Melt Electrospinning: Experiment and Simulation Study. Fibers and Polymers, 2021, 22, 964-971.	1.1	8
40	Roles of Coaxial Spinneret in Taylor Cone and Morphology of Coreâ€“Shell Fibers. Industrial & Engineering Chemistry Research, 2018, 57, 17310-17317.	1.8	7
41	Surface modification of PE/PET by two-step method with graphene and silver nanoparticles for enhanced electrical conductivity. Journal of Industrial Textiles, 2022, 51, 8246S-8266S.	1.1	7
42	Identification of wool and cashmere fibers based on multiscale geometric analysis. Journal of the Textile Institute, 2022, 113, 1001-1008.	1.0	7
43	Identification of overlapped wool/cashmere fibers based on multi-focus image fusion and convolutional neural network. Journal of Natural Fibers, 2022, 19, 6715-6726.	1.7	7
44	Preparation of PANI-coated hollow glass microsphere and its application in dual-band stealth coated fabric. Polymer Bulletin, 2022, 79, 7555-7570.	1.7	7
45	Objective evaluation of fabric pilling based on multi-view stereo vision. Journal of the Textile Institute, 0, , 1-12.	1.0	7
46	Preparation and Properties of Functional Fabric Coating Based on SiO2-aerogel/Polyurethane. Fibers and Polymers, 2022, 23, 1870-1880.	1.1	7
47	Fabrication and Characterization of Graphene Enriched Polysulfon Amide Nanocomposites by Electrospinning System. Fibers and Polymers, 2018, 19, 357-363.	1.1	6
48	Electrospun natural cellulose/polyacrylonitrile nanofiber: simulation and experimental study. Textile Reseach Journal, 2019, 89, 1748-1758.	1.1	6
49	Melt-Electrospun Polyvinylbutyral Bonded Polypropylene Composite Fibrous Mat: Spinning Process, Structure and Mechanical Property Study. Fibers and Polymers, 2020, 21, 1430-1437.	1.1	6
50	Novel segmentation algorithm for jacquard patterns based on multiâ€view image fusion. IET Image Processing, 2020, 14, 4563-4570.	1.4	6
51	Fiber recognition with machine learning methods by fiber tensile fracture via acoustic emission method. Textile Reseach Journal, 2020, 90, 2552-2563.	1.1	5
52	Waterproof and Moisture Permeable Nanofibrous Membranes with Multi-scale Cross-Linked Structure. Journal of Natural Fibers, 2022, 19, 5088-5100.	1.7	5
53	Preparation and characterization of PANI-PPY/PET fabric conductive composite for supercapacitors. Journal of the Textile Institute, 2022, 113, 2443-2450.	1.0	5
54	Effect of Particle Size of Cellulose Nanofibril on the Structure and Property of Polyacrylonitrile (PAN) Membrane by Electrospinning. Fibers and Polymers, 2020, 21, 119-126.	1.1	5

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55	Effect of annealing rate on microstructure and luminescence of Y2O3:Eu3+ deposited quartz fiber by electron beam evaporation. Journal of Materials Science: Materials in Electronics, 2015, 26, 6868-6874.	1.1	4
56	A novel multi-focus image fusion method of nonwovens based on GHM multiwavelet transform technology. Textile Reseach Journal, 2019, 89, 2870-2879.	1.1	4
57	Study on fiber fracture sequence during yarn tensile fracture via acoustic emission method. Journal of the Textile Institute, 2021, 112, 417-428.	1.0	4
58	Effects of Electric Filed on Electrospray Process: Experimental and Simulation Study. Fibers and Polymers, 2020, 21, 2695-2705.	1.1	4
59	Preparation and characterization of anti-mosquito polyester nets finished by bendiocarb/alphacypermethrin. Journal of the Textile Institute, 2016, 107, 1369-1374.	1.0	3
60	Preparation and characterization of graphene enriched poly(vinyl chloride) composites and fibers. Journal of the Textile Institute, 2018, 109, 1008-1015.	1.0	3
61	Preparation and characterization of composite fibrous membranes for oil spill cleanup. Textile Reseach Journal, 2020, 90, 313-322.	1.1	3
62	Preparation and characterization of heat-insulating Ag/TiO2 composite membranes based on magnetron sputtering technology. Journal of Materials Research, 2020, 35, 473-480.	1.2	3
63	Investigation on Image-Based Digital Method for Identification on Polyester/Cotton Fiber Category. Fibers and Polymers, 2021, 22, 1774-1783.	1.1	3
64	Microstructures and luminescent properties of CO₂ laser annealed Y₂O₃:Eu³⁺ thin films grown on quartz fabric by electron beam evaporation. Textile Reseach Journal, 2018, 88, 1824-1833.	1.1	2
65	Jet motion and fiber properties arising from a parallel electric field in melt-electrospinning. Textile Reseach Journal, 2021, 91, 899-910.	1.1	2
66	Release behaviors and kinetics of coated beadâ€onâ€string nanofibrous multilayer membranes loaded with drug particles. Polymer International, 2021, 70, 1396-1403.	1.6	2
67	Preparation and characterization of photothermal polyurethane/zirconium carbide fibrous membranes via electrospinning. Journal of the Textile Institute, 2022, 113, 1324-1333.	1.0	2
68	The release kinetic of drug encapsulated poly(L-lactide-co-É›-caprolactone) core-shell nanofibers fabricated by emulsion electrospinning. Journal of Macromolecular Science - Pure and Applied Chemistry, 0, , 1-15.	1.2	2
69	Effects of electron beam current on microstructure and luminescent properties of Y2O3:Eu3+ thin film grown on quartz fabric by electron beam evaporation. Journal of Materials Science: Materials in Electronics, 2018, 29, 17795-17801.	1.1	1
70	Investigation of image registration method for the multi-directional image fusion of woven fabrics. Journal of the Textile Institute, 2020, 111, 586-596.	1.0	1
71	Research on the surface roughness of aramid fibers via the surface modification. Journal of the Textile Institute, 2021, 112, 1743-1752.	1.0	1
72	An analysis of the propagation of impact elastic waves in isotropic and anisotropic materials. Journal of the Textile Institute, 2020, , 1-9.	1.0	1

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73	A novel objective wrinkle evaluation method for printed fabrics based on multi-view stereo algorithm. Journal of the Textile Institute, 0, , 1-11.	1.0	1
74	Preparation and research of flexible graphene/polyvinylidene fluoride electric heating membrane. Journal of the Textile Institute, 2023, 114, 343-350.	1.0	1
75	Preparation and characterization of sandwich structure composite with great flexibility and thermal insulation properties. Journal of the Textile Institute, 2022, 113, 2694-2703.	1.0	1
76	Composite Wadding of Down Fibers Encapsulated in Fabrics. Materials, 2022, 15, 2825.	1.3	1
77	3D visualization modeling of nonwoven fabrics from multi-focus images. Journal of the Textile Institute, 2023, 114, 388-397.	1.0	1
78	Modeling and evaluation of knitted fabric appearance based on FFT methods. , 2012, , .		0
79	CO2 laser annealing for improved luminescent properties of Y2O3:Eu3+ thin film grown on quartz fabric by using EBE. Journal of Materials Science: Materials in Electronics, 2018, 29, 837-845.	1.1	0
80	Research on texture image inpainting of jacquard fabric based on non-single vision. Textile Reseach Journal, 2020, 90, 1462-1476.	1.1	0
81	Investigation of tensile behavior and failure mechanism of woven fabric based on acoustic emission. Journal of the Textile Institute, 2021, 112, 1631-1638.	1.0	0
82	Effects of temperature on melt electrospinning with auxiliary heating: experiment and simulation study. Textile Reseach Journal, 0, , 004051752110582.	1.1	0
83	Preparation and Formation Mechanism of Electrospun Porous Beaded Fibers. AATCC Journal of Research, 2022, 9, 134-142.	0.3	0
84	Mechanism and experimental simulation of non-isothermal melt formation induced by voltage change under auxiliary heating. Textile Reseach Journal, 0, , 004051752210942.	1.1	0
85	An Investigation of Unidirectional Liquid Moisture Transport Performance Evaluation of Textile Materials Based on Double-Sided Imaging. Journal of Testing and Evaluation, 2022, 50, 2767-2779.	0.4	0