

Xungai Wang

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

2,457
citations

201385

27
h-index

233125

45
g-index

89
all docs

89
docs citations

89
times ranked

2757
citing authors

#	ARTICLE	IF	CITATIONS
1	Objective comparison of the softness of Australian Soft Rolling Skin wool and ordinary Merino wool. <i>Textile Research Journal</i> , 2022, 92, 3060-3070.	1.1	3
2	Understanding the difference in softness of Australian Soft Rolling Skin wool and conventional Merino wool. <i>Textile Research Journal</i> , 2022, 92, 3130-3141.	1.1	2
3	Textiles in soft robots: Current progress and future trends. <i>Biosensors and Bioelectronics</i> , 2022, 196, 113690.	5.3	50
4	Toughening Wet-Spun Silk Fibers by Silk Nanofiber Templating. <i>Macromolecular Rapid Communications</i> , 2022, 43, e2100891.	2.0	11
5	Efficient extraction of technical fibers from hemp in an ethanol-water mixture. <i>Industrial Crops and Products</i> , 2022, 178, 114620.	2.5	15
6	Fine powders from dyed waste wool as odor adsorbent and coloration pigment. <i>Powder Technology</i> , 2022, 400, 117261.	2.1	7
7	Surface-Enhanced Raman Spectroscopy Substrates for Food Safety and Quality Analysis. <i>Journal of Agricultural and Food Chemistry</i> , 2022, 70, 5463-5476.	2.4	44
8	Simultaneous electrokinetic energy conversion and organic molecular sieving by two-dimensional confined nanochannels. <i>Chemical Engineering Journal</i> , 2022, 446, 136870.	6.6	11
9	Porous, colorful and gas-adsorption powder from wool waste for textile functionalization. <i>Journal of Cleaner Production</i> , 2022, 366, 132805.	4.6	9
10	Kinetic and thermodynamic studies on gas adsorption behaviour of natural fibres. <i>Journal of the Textile Institute</i> , 2021, 112, 1390-1402.	1.0	5
11	Spinning Regenerated Silk Fibers with Improved Toughness by Plasticizing with Low Molecular Weight Silk. <i>Biomacromolecules</i> , 2021, 22, 788-799.	2.6	12
12	Fibrous-Structured Freestanding Electrodes for Oxygen Electrocatalysis. <i>Small</i> , 2021, 17, e1903760.	5.2	28
13	Enhanced Ion Sieving of Graphene Oxide Membranes via Surface Amine Functionalization. <i>Journal of the American Chemical Society</i> , 2021, 143, 5080-5090.	6.6	99
14	Stable Ti ₃ C ₂ T _x MXene-Boron Nitride Membranes with Low Internal Resistance for Enhanced Salinity Gradient Energy Harvesting. <i>ACS Nano</i> , 2021, 15, 6594-6603.	7.3	116
15	Paper-based microfluidics for food safety and quality analysis. <i>Trends in Food Science and Technology</i> , 2021, 118, 273-284.	7.8	42
16	Degumming methods for bast fibers—A mini review. <i>Industrial Crops and Products</i> , 2021, 174, 114158.	2.5	25
17	Noble-Metal Nanoparticle-Based Colorimetric Diagnostic Assays for Point-of-Need Applications. <i>ACS Applied Nano Materials</i> , 2021, 4, 12808-12824.	2.4	22
18	Structural design and mechanism analysis of hierarchical porous carbon fibers for advanced energy and environmental applications. <i>Journal of Materials Chemistry A</i> , 2021, 10, 10-49.	5.2	23

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19	Wet-spinning of fluorescent fibers based on gold nanoclusters-loaded alginate for sensing of heavy metal ions and anti-counterfeiting. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 230, 118031.	2.0	40
20	Titanium dioxide coated carbon foam as microreactor for improved sunlight driven treatment of cotton dyeing wastewater. <i>Journal of Cleaner Production</i> , 2020, 246, 118949.	4.6	28
21	Deodorizing for fiber and fabric: Adsorption, catalysis, source control and masking. <i>Advances in Colloid and Interface Science</i> , 2020, 283, 102243.	7.0	17
22	Fabrication of PANI@TiO ₂ nanocomposite and its sunlight-driven photocatalytic effect on cotton fabrics. <i>Journal of the Textile Institute</i> , 2020, , 1-9.	1.0	8
23	Hollow Au/Polypyrrole Capsules to Form Porous and Neural Network-Like Nanofibrous Film for Wearable, Super-Rapid, and Ultrasensitive NH ₃ Sensor at Room Temperature. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 55056-55063.	4.0	25
24	Robust Membrane for Osmotic Energy Harvesting from Organic Solutions. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 52771-52778.	4.0	20
25	Palladium nanoparticle colored cotton fabric as a highly efficient catalyst for colorimetric sensing of H ₂ O ₂ . <i>Cellulose</i> , 2020, 27, 7791-7803.	2.4	9
26	Improving the Tensile Properties of Wet Spun Silk Fibers Using Rapid Bayesian Algorithm. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 3197-3207.	2.6	12
27	Effect of jade nanoparticle content and twist of cool-touch polyester filaments on comfort performance of knitted fabrics. <i>Textile Research Journal</i> , 2020, 90, 2385-2398.	1.1	13
28	Ultrathin Ti ₃ C ₂ T _x (MXene) membrane for pressure-driven electrokinetic power generation. <i>Nano Energy</i> , 2020, 75, 104954.	8.2	49
29	Patterning and process parameter effects in 3D suspension near-field electrospinning of nanoarrays. <i>Nanotechnology</i> , 2019, 30, 495301.	1.3	9
30	A direct 3D suspension near-field electrospinning technique for the fabrication of polymer nanoarrays. <i>Nanotechnology</i> , 2019, 30, 195301.	1.3	7
31	Environmentally Friendly Flexible Strain Sensor from Waste Cotton Fabrics and Natural Rubber Latex. <i>Polymers</i> , 2019, 11, 404.	2.0	41
32	Quantitative and sensory evaluation of odor retention on polyester/wool blends. <i>Textile Research Journal</i> , 2019, 89, 2729-2738.	1.1	18
33	Investigating the cotton ring spun yarn structure using micro computerized tomography and digital image processing techniques. <i>Textile Research Journal</i> , 2019, 89, 3007-3023.	1.1	8
34	The mechanism of hairiness reduction in offset ring spinning with a diagonal yarn path. <i>Textile Research Journal</i> , 2019, 89, 1546-1556.	1.1	6
35	Structure and properties of Camphor silk. <i>Journal of the Textile Institute</i> , 2018, 109, 1186-1192.	1.0	3
36	Functionalization of Silk with In-Situ Synthesized Platinum Nanoparticles. <i>Materials</i> , 2018, 11, 1929.	1.3	21

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37	Photoinduced synthesis of gold nanoparticle-bacterial cellulose nanocomposite and its application for in-situ detection of trace concentration of dyes in textile and paper. <i>Cellulose</i> , 2018, 25, 3941-3953.	2.4	16
38	Protection of silica-coated ZnO nanoparticles on pre-dyed polyester fabrics against photofading. <i>Journal of the Textile Institute</i> , 2017, 108, 95-101.	1.0	7
39	Water and dye-free coloration of wool. <i>Fibers and Polymers</i> , 2017, 18, 102-109.	1.1	2
40	Glycerol-plasticised silk membranes made using formic acid are ductile, transparent and degradation-resistant. <i>Materials Science and Engineering C</i> , 2017, 80, 165-173.	3.8	23
41	Waste Fiber Powder Functionalized with Silver Nanoprism for Enhanced Raman Scattering Analysis. <i>Nanoscale Research Letters</i> , 2017, 12, 341.	3.1	18
42	Comparative Study of Strain-Dependent Structural Changes of Silkworm Silks: Insight into the Structural Origin of Strain-Stiffening. <i>Small</i> , 2017, 13, 1702266.	5.2	53
43	In situ synthesis of gold nanoparticles on cotton fabric for multifunctional applications. <i>Cellulose</i> , 2017, 24, 4547-4560.	2.4	36
44	Ultrasonic assisted industrial wool scouring. <i>Procedia Engineering</i> , 2017, 200, 39-44.	1.2	6
45	Trace Analysis and Chemical Identification on Cellulose Nanofibers-Textured SERS Substrates Using the "Coffee Ring" Effect. <i>ACS Sensors</i> , 2017, 2, 1060-1067.	4.0	62
46	In Situ Synthesis of Gold Nanoparticles on Wool Powder and Their Catalytic Application. <i>Materials</i> , 2017, 10, 295.	1.3	15
47	Silver Nanoprism-Loaded Eggshell Membrane: A Facile Platform for In Situ SERS Monitoring of Catalytic Reactions. <i>Crystals</i> , 2017, 7, 45.	1.0	13
48	Directional moisture transfer through a wild silkworm cocoon wall. <i>Biointerphases</i> , 2016, 11, 021008.	0.6	1
49	Sunlight-Induced Coloration of Silk. <i>Nanoscale Research Letters</i> , 2016, 11, 293.	3.1	12
50	Functional Application of Noble Metal Nanoparticles In Situ Synthesized on Ramie Fibers. <i>Nanoscale Research Letters</i> , 2015, 10, 366.	3.1	28
51	Facile synthesis of silver submicrospheres and their applications. <i>RSC Advances</i> , 2015, 5, 98293-98298.	1.7	6
52	Cellulose nanofibre textured SERS substrate. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 468, 309-314.	2.3	42
53	A new design concept for knitted external vein-graft support mesh. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015, 48, 125-133.	1.5	11
54	Intrinsic tensile properties of cocoon silk fibres can be estimated by removing flaws through repeated tensile tests. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20150177.	1.5	19

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55	Cocoon of the silkworm <i>Antheraea pernyi</i> as an example of a thermally insulating biological interface. <i>Biointerphases</i> , 2014, 9, 031013.	0.6	12
56	Scaling up the production rate of nanofibers by needleless electrospinning from multiple ring. <i>Fibers and Polymers</i> , 2014, 15, 961-965.	1.1	41
57	Multifunctionalization of cotton through in situ green synthesis of silver nanoparticles. <i>Cellulose</i> , 2013, 20, 3053-3065.	2.4	54
58	A comparative study on yarn hairiness results from manual test and two commercial hairiness metres. <i>Journal of the Textile Institute</i> , 2013, 104, 494-501.	1.0	10
59	Electric field analysis of spinneret design for needleless electrospinning of nanofibers. <i>Journal of Materials Research</i> , 2012, 27, 3013-3019.	1.2	30
60	Effects of ultrasonic treatment on wool fibre and fabric properties. <i>Journal of the Textile Institute</i> , 2012, 103, 662-668.	1.0	27
61	Reduced Graphene Oxide/ZnO Composite: Reusable Adsorbent for Pollutant Management. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 3084-3090.	4.0	264
62	The effects of ultrasonic agitation in laundering on the properties of wool fabrics. <i>Ultrasonics Sonochemistry</i> , 2008, 15, 1069-1074.	3.8	46
63	An experimental study on fabric softness evaluation. <i>International Journal of Clothing Science and Technology</i> , 2006, 18, 83-95.	0.5	12
64	Modification of wool fiber using steam explosion. <i>European Polymer Journal</i> , 2006, 42, 2168-2173.	2.6	116
65	Frictional and tensile properties of conducting polymer coated wool and alpaca fibers. <i>Fibers and Polymers</i> , 2005, 6, 259-262.	1.1	31
66	Internal structure and pigment granules in colored alpaca fibers. <i>Fibers and Polymers</i> , 2005, 6, 263-268.	1.1	16
67	The Influence of the Interior Structure of Aliquat 336/PVC Membranes to their Extraction Behavior. <i>Separation Science and Technology</i> , 2005, 39, 3527-3539.	1.3	22
68	Resistance to Compression Behavior of Alpaca and Wool. <i>Textile Research Journal</i> , 2004, 74, 265-270.	1.1	13
69	Evaluating the Softness of Animal Fibers. <i>Textile Research Journal</i> , 2004, 74, 535-538.	1.1	24
70	Improved membranes for the extraction of heavy metals. <i>Fibers and Polymers</i> , 2004, 5, 68-74.	1.1	3
71	An experimental investigation of yarn tension in simulated ring spinning. <i>Fibers and Polymers</i> , 2004, 5, 275-279.	1.1	31
72	Effects of bleaching and dyeing on the quality of alpaca tops and yarns. <i>Fibers and Polymers</i> , 2004, 5, 128-133.	1.1	7

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73	Compressive and flexural properties of hemp fiber reinforced concrete. <i>Fibers and Polymers</i> , 2004, 5, 187-197.	1.1	104
74	Numerical modeling of the dynamic tensile behavior of irregular fibers. <i>Journal of Applied Polymer Science</i> , 2004, 91, 2855-2861.	1.3	1
75	Modeling the tensile behavior of fiber bundles with irregular constituent fibers. <i>Journal of Applied Polymer Science</i> , 2004, 93, 2664-2668.	1.3	3
76	Comparative analysis of two selective bleaching methods on Alpaca fibers. <i>Fibers and Polymers</i> , 2003, 4, 124-128.	1.1	18
77	An investigation of solubility of aliquat 336 in different extracted solutions. <i>Fibers and Polymers</i> , 2003, 4, 27-31.	1.1	23
78	Reducing Yarn Hairiness with a Modified Yam Path in Worsted Ring Spinning. <i>Textile Reseach Journal</i> , 2003, 73, 327-332.	1.1	53
79	Comparing the Hairiness of Solospun and Ring Spun Worsted Yarns. <i>Textile Reseach Journal</i> , 2003, 73, 640-644.	1.1	24
80	Characterization of conductive polypyrrole coated wool yarns. <i>Fibers and Polymers</i> , 2002, 3, 24-30.	1.1	66
81	The combined tensile and torsional behavior of irregular fibers. <i>Fibers and Polymers</i> , 2002, 3, 31-37.	1.1	0
82	A novel polymer membrane for extraction applications. <i>Fibers and Polymers</i> , 2002, 3, 68-72.	1.1	4
83	Correlating the fineness and residual gum content of degummed hemp fibres. <i>Fibers and Polymers</i> , 2002, 3, 129-133.	1.1	16
84	Weibull analysis of the tensile behavior of fibers with geometrical irregularities. <i>Journal of Materials Science</i> , 2002, 37, 1401-1406.	1.7	89
85	Studies of JetRing Spinning Part I: Reducing Yarn Hairiness with the JetRing. <i>Textile Reseach Journal</i> , 1997, 67, 253-258.	1.1	60
86	Biomedicine: electrospun nanofibrous hormonal therapies through skin/tissue—a review. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 0, , 1-19.	1.8	3
87	A modified resistance to compression (RtC) test for evaluation of natural fiber softness. <i>Textile Reseach Journal</i> , 0, , 004051752110694.	1.1	1
88	Numerical analysis of heat transfer in ring spinning. <i>Textile Reseach Journal</i> , 0, , 004051752210985.	1.1	1