

Weidong Yu

List of Publications by Year in descending order

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73
papers

1,185
citations

430754

18
h-index

454834

30
g-index

75
all docs

75
docs citations

75
times ranked

1340
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct Current Fabric Triboelectric Nanogenerator for Biomotion Energy Harvesting. ACS Nano, 2020, 14, 4585-4594.	7.3	170
2	Evaluating the thermal stability of high performance fibers by TGA. Journal of Applied Polymer Science, 2006, 99, 937-944.	1.3	84
3	Meso-Reconstruction of Silk Fibroin based on Molecular and Nano-Templates for Electronic Skin in Medical Applications. Advanced Functional Materials, 2021, 31, 2100150.	7.8	42
4	Crystal networks in supramolecular gels: formation kinetics and mesoscopic engineering principles. CrystEngComm, 2015, 17, 7986-8010.	1.3	35
5	Preparation and Properties of Drug-Loaded Chitosan-Sodium Alginate Complex Membrane. International Journal of Polymeric Materials and Polymeric Biomaterials, 2010, 59, 184-191.	1.8	34
6	Durable superamphiphobic aramid fabrics modified by PTFE and FAS for chemical protective clothing. Progress in Organic Coatings, 2019, 135, 41-50.	1.9	33
7	Improving the photo-stability of high performance aramid fibers by sol-gel treatment. Fibers and Polymers, 2008, 9, 455-460.	1.1	32
8	Preparation and characterization of CS-g-PNIPAAm microgels and application in a water vapour-permeable fabric. Carbohydrate Polymers, 2015, 127, 11-18.	5.1	32
9	Influence of alkali treatment on the structure and properties of hemp fibers. Fibers and Polymers, 2013, 14, 389-395.	1.1	28
10	Analysis of physical properties and structure design of weft-knitted spacer fabric with high porosity. Textile Reseach Journal, 2018, 88, 59-68.	1.1	28
11	Thermal performance and flammability of phase change material for medium and elevated temperatures for textile application. Journal of Thermal Analysis and Calorimetry, 2014, 117, 9-17.	2.0	26
12	A facile method to prepare a wearable pressure sensor based on fabric electrodes for human motion monitoring. Textile Reseach Journal, 2019, 89, 5144-5152.	1.1	26
13	Electrospun Polyurethane/Zeoilic Imidazolate Framework Nanofibrous Membrane with Superior Stability for Filtering Performance. ACS Applied Polymer Materials, 2021, 3, 710-719.	2.0	26
14	Evaluation of high performance fabric under light irradiation. Journal of Applied Polymer Science, 2011, 120, 552-556.	1.3	22
15	The virtual manufacturing model of the worsted yarn based on artificial neural networks and grey theory. Applied Mathematics and Computation, 2007, 185, 322-332.	1.4	21
16	Study of electrothermal properties of silver nanowire/polydopamine/cotton-based nanocomposites. Cellulose, 2019, 26, 5995-6007.	2.4	20
17	Tensile strength and its variation of PAN-based carbon fibers. III. Weak-link analysis. Journal of Applied Polymer Science, 2008, 110, 3778-3784.	1.3	19
18	Wool keratin and silk sericin composite films reinforced by molecular network reconstruction. Journal of Materials Science, 2018, 53, 5418-5428.	1.7	19

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19	Evaluation of the tensile properties and thermal stability of ultrahigh-molecular-weight polyethylene fibers. <i>Journal of Applied Polymer Science</i> , 2005, 97, 310-315.	1.3	18
20	Comparison of thermal protective performance of aluminized fabrics of basalt fiber and glass fiber. <i>Fire and Materials</i> , 2011, 35, 553-560.	0.9	18
21	Fuzzy comprehensive prediction of fabric stiffness handle based on quasi-three-point restraint test. <i>Fibers and Polymers</i> , 2015, 16, 1395-1402.	1.1	18
22	Geometrical modeling of tubular braided structures using generalized rose curve. <i>Textile Research Journal</i> , 2017, 87, 474-486.	1.1	17
23	Tensile strength and its variation of PAN-based carbon fibers. I. Statistical distribution and volume dependence. <i>Journal of Applied Polymer Science</i> , 2006, 101, 3175-3182.	1.3	16
24	An environmentally friendly method for the isolation of cellulose nano fibrils from banana rachis fibers. <i>Textile Research Journal</i> , 2017, 87, 81-90.	1.1	16
25	Chemical stable, superhydrophobic and self-cleaning fabrics prepared by two-step coating of a polytetrafluoroethylene membrane and silica nanoparticles. <i>Textile Research Journal</i> , 2019, 89, 4827-4841.	1.1	16
26	Tensile strength and its variation for PAN-based carbon fibers. II. Calibration of the variation from testing. <i>Journal of Applied Polymer Science</i> , 2007, 104, 2625-2632.	1.3	15
27	A numerical analysis of heat transfer in an evacuated flexible multilayer insulation material. <i>Journal of Thermal Analysis and Calorimetry</i> , 2010, 101, 1183-1188.	2.0	15
28	Softness evaluation of keratin fibers based on single-fiber bending test. <i>Journal of Applied Polymer Science</i> , 2006, 101, 701-707.	1.3	14
29	Programing Performance of Silk Fibroin Superstrong Scaffolds by Mesoscopic Regulation among Hierarchical Structures. <i>Biomacromolecules</i> , 2020, 21, 4169-4179.	2.6	14
30	Reconstructed silk fibroin mediated smart wristband for physiological signal detection. <i>Chemical Engineering Journal</i> , 2022, 428, 132362.	6.6	14
31	Smart case-based indexing in worsted roving process: Combination of rough set and case-based reasoning. <i>Applied Mathematics and Computation</i> , 2009, 214, 280-286.	1.4	13
32	Influence of silica aerogels on fabric structural feature for thermal isolation properties of weft-knitted spacer fabrics. <i>Journal of Engineered Fibers and Fabrics</i> , 2019, 14, 155892501986644.	0.5	13
33	Analysis of shearing properties of woven fabrics based on bias extension. <i>Journal of the Textile Institute</i> , 2008, 99, 385-392.	1.0	12
34	Experimental investigation on the thermal protective performance of nonwoven fabrics made of high-performance fibers. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 121, 627-632.	2.0	12
35	Structural studies and macro-performances of hydroxyapatite-reinforced keratin thin films for biological applications. <i>Journal of Materials Science</i> , 2016, 51, 9573-9588.	1.7	12
36	Solar-driven thermochromic fabric based on photothermal conversion for light intensity monitoring. <i>Journal of Materials Chemistry A</i> , 2021, 9, 20565-20575.	5.2	12

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37	Observed Extreme Air-Sea Heat Flux Variations during Three Tropical Cyclones in the Tropical Southeastern Indian Ocean. <i>Journal of Climate</i> , 2021, 34, 3683-3705.	1.2	12
38	Structure and spinning of composite yarn based on the multifilament spreading method using a modified ring frame. <i>Textile Research Journal</i> , 2014, 84, 2074-2084.	1.1	11
39	Characterizing frictional properties of fabrics to surface. <i>Journal of the Textile Institute</i> , 2009, 100, 83-89.	1.0	10
40	Brain cognitive comparison of fabric touch on human glabrous and hairy skin. <i>Textile Research Journal</i> , 2016, 86, 318-324.	1.1	10
41	Woven Fabric Triboelectric Nanogenerator for Biomotion Energy Harvesting and as Self-Powered Gait-Recognizing Socks. <i>Energies</i> , 2020, 13, 4119.	1.6	10
42	Mechanics and hierarchical structure transformation mechanism of wool fibers. <i>Textile Research Journal</i> , 2021, 91, 496-507.	1.1	10
43	Energetics-Based Estimation of the Diapycnal Mixing Induced by Internal Tides in the Andaman Sea. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC016521.	1.0	10
44	Characterization of the weak link of wool fibers. <i>Journal of Applied Polymer Science</i> , 2003, 90, 1206-1212.	1.3	9
45	Silk fabric protection obtained via chemical conjugation of transglutaminase and silk fibroin reinforcement. <i>Textile Research Journal</i> , 2019, 89, 4581-4594.	1.1	9
46	Sunlight-Responsive Photothermochromic Fabric with Reversible Color Changing Based on Photothermal Conversion. <i>Solar Rrl</i> , 2021, 5, 2100135.	3.1	9
47	Physical interpretation of pulling-out curve based on a new apparatus. <i>Journal of the Textile Institute</i> , 2008, 99, 399-406.	1.0	8
48	Characterization of prickle tactile discomfort properties of different textile single fibers using an axial fiber-compression-bending analyzer (FICBA). <i>Textile Research Journal</i> , 2015, 85, 512-523.	1.1	8
49	Structure of the right-handed helical crystal ribbon and multilevel fibrils in a tube fiber from a coir fiber. <i>Cellulose</i> , 2016, 23, 2841-2852.	2.4	8
50	Study on strength property of fabric under low-stress condition. <i>Journal of the Textile Institute</i> , 2008, 99, 265-272.	1.0	7
51	Study of the vibration transmission property of warp-knitted spacer fabrics under forced sinusoidal excitation vibration. <i>Textile Research Journal</i> , 2018, 88, 922-931.	1.1	7
52	Robust, flame-retardant and colorful superamphiphobic aramid fabrics for extreme conditions. <i>Science China Technological Sciences</i> , 2021, 64, 1765-1774.	2.0	7
53	Evaluation of fiber wettability based on an immersing force measurement. <i>Journal of Applied Polymer Science</i> , 2006, 100, 2659-2666.	1.3	6
54	The effects of wool surface characteristic on fuzzing and pilling of knitted fabrics. <i>Fibers and Polymers</i> , 2011, 12, 528-533.	1.1	6

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55	Fractal calculation of air permeability of nonwoven fabrics. <i>Journal of the Textile Institute</i> , 2012, 103, 817-826.	1.0	6
56	Experimental study on an effective method for the friction property of fabrics by the comprehensive handle evaluation system for fabrics and yarns system. <i>Textile Reseach Journal</i> , 2018, 88, 882-891.	1.1	6
57	A highly stretchable, easily processed and robust metal wire-containing woven fabric with strain-enhanced electromagnetic shielding effectiveness. <i>Textile Reseach Journal</i> , 2021, 91, 2063-2073.	1.1	6
58	Superamphiphobic and flame-resistant cotton fabrics for protective clothing. <i>Cellulose</i> , 2022, 29, 619-632.	2.4	5
59	Characterization of birefringent distribution of high-modulus PET fibers by senarmont compensation method. <i>Journal of Applied Polymer Science</i> , 2004, 91, 598-608.	1.3	4
60	Characterization of structure and properties of polylactic fiber. <i>Journal of Applied Polymer Science</i> , 2012, 125, E149.	1.3	4
61	Subjective evaluations of fabric-evoked prickle using the unidimensional rating scale from different body areas. <i>Textile Reseach Journal</i> , 2016, 86, 350-364.	1.1	4
62	Effect of bending rigidity, Poisson's ratio and surface friction of fabrics on the stretching step of the comprehensive handle evaluation system for fabrics and yarns. <i>Textile Reseach Journal</i> , 2016, 86, 1947-1961.	1.1	4
63	Fast responsive and strong swelling hydrogels based on N-isopropylacrylamide with sodium acrylate. <i>Journal of Applied Polymer Science</i> , 2009, 112, 123-128.	1.3	3
64	Theoretical study on the bending rigidity of filament yarns with an elliptical cross-section using energy method. I. Theoretical modeling. <i>Fibers and Polymers</i> , 2010, 11, 883-890.	1.1	3
65	Analysis of a quasi-three-point bending test for fabrics with friction and extensibility effect. <i>Textile Reseach Journal</i> , 2017, 87, 2179-2192.	1.1	3
66	Multivariate analysis of curve parameters to predict fabric stiffness handle from a pulling-out test. <i>Textile Reseach Journal</i> , 2018, 88, 863-872.	1.1	3
67	Fractal structure and hydration-driven shape memory of duck down in the dry-wet state. <i>Textile Reseach Journal</i> , 2022, 92, 1444-1453.	1.1	2
68	The Techniques and Origin of Ornamental Gold Silks in Ancient China. <i>Journal of Fiber Science and Technology</i> , 2016, 72, 132-138.	0.2	1
69	A Quasi-Fixed-Supported Beam Method for Characterizing Fabric Bending Rigidity and Drapé Behaviour by Calculus of Variations. <i>Journal of Fiber Science and Technology</i> , 2017, 73, 202-209.	0.2	1
70	Using Cu ²⁺ ions as a detection material to verify the synthesis mechanism of Au nanoclusters mediated by wool keratin and silk fibroin resilience network. <i>Textile Reseach Journal</i> , 0, , 004051752198977.	1.1	1
71	Effects of process variables on physical characteristics of tri-component elastic-conductive composite yarns (t-ECCYs) using a modified ring frame. <i>Industria Textila</i> , 2018, 69, 17-23.	0.5	1
72	Evaluating compressive behavior of general fibrous assemblies. <i>Industria Textila</i> , 2018, 69, 287-292.	0.5	1

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73	Evaluation of the Thermal Properties of Kermel and PBO Fibres. Research Journal of Textile and Apparel, 2012, 16, 93-96.	0.6	0