

Zhaoqun Du

List of Publications by Year in descending order

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68
papers

1,171
citations

566801

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433756

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69
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docs citations

69
times ranked

929
citing authors

#	ARTICLE	IF	CITATIONS
1	A facile approach to prepare a flexible and durable electrically driven cotton fabric-based heater. <i>Journal of Industrial Textiles</i> , 2022, 51, 406S-419S.	1.1	3
2	A self-adaptive particle swarm optimization based K-means (SAPSO-K) clustering method to evaluate fabric tactile comfort. <i>Journal of the Textile Institute</i> , 2022, 113, 915-926.	1.0	1
3	A superhydrophobic and flame-retardant cotton fabric fabricated by an eco-friendly assembling method. <i>Textile Reseach Journal</i> , 2022, 92, 2873-2885.	1.1	5
4	Design, preparation, and characterization of auxetic weft backed weave fabrics based on Miura origami structure. <i>Textile Reseach Journal</i> , 2022, 92, 1126-1134.	1.1	4
5	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
6	Superamphiphobic and flame-resistant cotton fabrics for protective clothing. <i>Cellulose</i> , 2022, 29, 619-632.	2.4	5
7	MXene-containing pressure sensor based on nanofiber film and spacer fabric with ultrahigh sensitivity and Joule heating effect. <i>Textile Reseach Journal</i> , 2022, 92, 1999-2009.	1.1	8
8	Highly Sensitive MXene Helical Yarn/Fabric Tactile Sensors Enabling Full Scale Movement Detection of Human Motions. <i>Advanced Electronic Materials</i> , 2022, 8, .	2.6	10
9	Design, preparation and characterization of three-dimensional auxetic warp and weft backed weave fabrics based on origami tessellation structures. <i>Textile Reseach Journal</i> , 2022, 92, 3797-3807.	1.1	3
10	Study on the tensile behavior of helical auxetic yarns by modeling and mechanical analysis. <i>Journal of the Textile Institute</i> , 2021, 112, 1531-1537.	1.0	6
11	Analysis of tensile behaviour of hyperelastic auxetic cellular materials with re-entrant hexagonal cells. <i>Journal of the Textile Institute</i> , 2021, 112, 173-186.	1.0	6
12	Tactile comfort characterization of knitted fabrics based on the ring-shaped style tester. <i>Textile Reseach Journal</i> , 2021, 91, 766-777.	1.1	1
13	Tactile evaluation of down jacket fabric by the comprehensive handle evaluation system for fabrics and yarns. <i>Textile Reseach Journal</i> , 2021, 91, 1227-1238.	1.1	3
14	Theoretical analysis of the moisture transfer property for polytetrafluoroethylene/polyethylene terephthalate bi-layer complex fabrics. <i>Textile Reseach Journal</i> , 2021, 91, 984-989.	1.1	1
15	Theoretical and experimental investigations on the effects of friction, bending rigidity, extensibility, and Poisson's ratio on fabric tensile properties. <i>Textile Reseach Journal</i> , 2021, 91, 555-569.	1.1	0
16	Fuzzy clustering analysis of comprehensive hand of polyester fabric based on the CHES-FY system. <i>Textile Reseach Journal</i> , 2021, 91, 743-751.	1.1	2
17	Stretchable negative Poisson's ratio yarn for triboelectric nanogenerator for environmental energy harvesting and self-powered sensor. <i>Energy and Environmental Science</i> , 2021, 14, 955-964.	15.6	78
18	Robust, flame-retardant and colorful superamphiphobic aramid fabrics for extreme conditions. <i>Science China Technological Sciences</i> , 2021, 64, 1765-1774.	2.0	7

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19	Electrospun Polyurethane/Zeolitic Imidazolate Framework Nanofibrous Membrane with Superior Stability for Filtering Performance. <i>ACS Applied Polymer Materials</i> , 2021, 3, 710-719.	2.0	26
20	The manufacture and characterization of auxetic, self-curling, and self-folding woven fabrics by helical auxetic yarns. <i>Journal of Industrial Textiles</i> , 2020, 50, 3-12.	1.1	10
21	Analysis of compression property of height-alterable double-layer hollow tubular fabrics for industrial textiles. <i>Journal of Industrial Textiles</i> , 2020, 49, 1160-1177.	1.1	0
22	Structural design and characterization of highly elastic woven fabric containing helical auxetic yarns. <i>Textile Reseach Journal</i> , 2020, 90, 809-823.	1.1	15
23	Structural design and performance characterization of stable helical auxetic yarns based on the hollow-spindle covering system. <i>Textile Reseach Journal</i> , 2020, 90, 271-281.	1.1	12
24	3D double-faced interlock fabric triboelectric nanogenerator for bio-motion energy harvesting and as self-powered stretching and 3D tactile sensors. <i>Materials Today</i> , 2020, 32, 84-93.	8.3	226
25	Woven Fabric Triboelectric Nanogenerator for Biomotion Energy Harvesting and as Self-Powered Gait-Recognizing Socks. <i>Energies</i> , 2020, 13, 4119.	1.6	10
26	Analysis of the mechanical properties of double arrowhead auxetic metamaterials under tension. <i>Textile Reseach Journal</i> , 2020, 90, 2411-2427.	1.1	13
27	Highly stretchable, stability, flexible yarn-fabric-based multi-scale negative Poisson's ratio composites. <i>Composite Structures</i> , 2020, 250, 112579.	3.1	12
28	Measuring and multilevel fuzzy comprehensive predicting comfort parameters of soft materials by a new handle evaluation system. <i>Textile Reseach Journal</i> , 2020, 90, 2727-2744.	1.1	5
29	Direct Current Fabric Triboelectric Nanogenerator for Biomotion Energy Harvesting. <i>ACS Nano</i> , 2020, 14, 4585-4594.	7.3	170
30	A Flexible and Highly Sensitive Pressure Sensor Based on AgNWs/NRLF for Hand Motion Monitoring. <i>Nanomaterials</i> , 2019, 9, 945.	1.9	18
31	Preparation of a Highly Sensitive and Stretchable Strain Sensor of MXene/Silver Nanocomposite-Based Yarn and Wearable Applications. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 45930-45938.	4.0	128
32	A Theoretical Study on the Effect of Structural Parameter on Tensile Properties of Helical Auxetic Yarns. <i>Fibers and Polymers</i> , 2019, 20, 1742-1748.	1.1	8
33	Study of electrothermal properties of silver nanowire/polydopamine/cotton-based nanocomposites. <i>Cellulose</i> , 2019, 26, 5995-6007.	2.4	20
34	Measurement of fabric handle characteristics based on the Quick-Intelligent Handle Evaluation System for Fabrics (QIHES-F). <i>Textile Reseach Journal</i> , 2019, 89, 3374-3386.	1.1	7
35	In-situ characterization of handle characteristics of suiting woven fabrics by a simultaneous measurement method. <i>Textile Reseach Journal</i> , 2019, 89, 2522-2531.	1.1	5
36	Study on the structure formation and heat treatment of helical auxetic complex yarn. <i>Textile Reseach Journal</i> , 2019, 89, 1003-1012.	1.1	17

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37	Simulation of plate compression behavior of warp-knitted spacer fabrics based on geometry and property parameters. <i>Textile Reseach Journal</i> , 2019, 89, 1051-1064.	1.1	19
38	Analysis of physical properties and structure design of weft-knitted spacer fabric with high porosity. <i>Textile Reseach Journal</i> , 2018, 88, 59-68.	1.1	28
39	Analysis of the damping property of warp-knitted spacer fabrics under damped free vibration. <i>Textile Reseach Journal</i> , 2018, 88, 790-799.	1.1	5
40	Study of the vibration transmission property of warp-knitted spacer fabrics under forced sinusoidal excitation vibration. <i>Textile Reseach Journal</i> , 2018, 88, 922-931.	1.1	7
41	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
42	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
43	Determination of model parameters for predicting handle characteristics of wool-rich suiting woven fabrics based on the Wool HandleMeter and KES-F. <i>Journal of the Textile Institute</i> , 2018, 109, 147-159.	1.0	9
44	A Novel Interlaced-helical Wrapping Yarn with Negative Poisson's Ratio. <i>Fibers and Polymers</i> , 2018, 19, 2411-2417.	1.1	13
45	Analysis of spherical compression performance of warp-knitted spacer fabrics. <i>Journal of Industrial Textiles</i> , 2017, 46, 1362-1378.	1.1	24
46	Simulative analysis of the bending property of woven fabric by the comprehensive handle evaluation system for fabrics and yarns. <i>Textile Reseach Journal</i> , 2017, 87, 1977-1990.	1.1	5
47	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
48	A Quasi-Fixed-Supported Beam Method for Characterizing Fabric Bending Rigidity and Drape Behaviour by Calculus of Variations. <i>Journal of Fiber Science and Technology</i> , 2017, 73, 202-209.	0.2	1
49	Directional Trans-Planar and Different In-Plane Water Transfer Properties of Composite Structured Bifacial Fabrics Modified by a Facile Three-Step Plasma Treatment. <i>Coatings</i> , 2017, 7, 132.	1.2	10
50	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
51	Determination of pressure indices to characterize the pressure-relief property of spacer fabric based on a pressure pad system. <i>Textile Reseach Journal</i> , 2016, 86, 1443-1451.	1.1	13
52	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
53	Analysis of structure of warp-knitted spacer fabric on pressure indices. <i>Fibers and Polymers</i> , 2015, 16, 2491-2496.	1.1	19
54	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

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55	Effects of parameters on mass index of the CHES-FY system. <i>Fibers and Polymers</i> , 2014, 15, 175-180.	1.1	10
56	Determination of optimal system parameters to measure bending property of fabric based on the CHES-FY system. <i>Fibers and Polymers</i> , 2014, 15, 874-881.	1.1	6
57	Determination of featured parameters to cluster stiffness handle of fabrics by the CHES-FY system. <i>Fibers and Polymers</i> , 2013, 14, 1768-1775.	1.1	18
58	A study of spherical compression properties of knitted spacer fabrics Part I: Theoretical analysis. <i>Textile Reseach Journal</i> , 2012, 82, 1569-1578.	1.1	35
59	Characterization of structure and properties of polylactic fiber. <i>Journal of Applied Polymer Science</i> , 2012, 125, E149.	1.3	4
60	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
61	Issues of a Laser Beam: Depolarization, Beam Quality Degradation and It's Transmission System. , 2010, , .		0
62	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
63	A comprehensive handle evaluation system for fabrics: I. Measurement and characterization of mass and bending properties. <i>Measurement Science and Technology</i> , 2007, 18, 3547-3554.	1.4	24
64	Determination of the Bending Characteristic Parameters of the Bending Evaluation System of Fabric and Yarn. <i>Textile Reseach Journal</i> , 2006, 76, 702-711.	1.1	14
65	Influence of re-entrant hexagonal structure and helical auxetic yarn on the tensile and auxetic behavior of parametric fabrics. <i>Textile Reseach Journal</i> , 0, , 004051752199349.	1.1	4
66	Theoretical modeling and characterization of bending properties of fabrics with friction and extensibility effect. <i>Journal of the Textile Institute</i> , 0, , 1-13.	1.0	0
67	Finite element modeling and experimental testing of woven fabric based on a new instrument: simulative analysis of the compression property. <i>Textile Reseach Journal</i> , 0, , 004051752110563.	1.1	1
68	Fabrication and characterization of braided auxetic yarns based on a high-speed braiding machine. <i>Textile Reseach Journal</i> , 0, , 004051752210985.	1.1	1