Zhaoqun Du

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8080637/publications.pdf

Version: 2024-02-01

68	1,171	566801 15	433756 31
papers	citations	h-index	g-index

69	69	69	929
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	3D double-faced interlock fabric triboelectric nanogenerator for bio-motion energy harvesting and as self-powered stretching and 3D tactile sensors. Materials Today, 2020, 32, 84-93.	8.3	226
2	Direct Current Fabric Triboelectric Nanogenerator for Biomotion Energy Harvesting. ACS Nano, 2020, 14, 4585-4594.	7.3	170
3	Preparation of a Highly Sensitive and Stretchable Strain Sensor of MXene/Silver Nanocomposite-Based Yarn and Wearable Applications. ACS Applied Materials & Interfaces, 2019, 11, 45930-45938.	4.0	128
4	Stretchable negative Poisson's ratio yarn for triboelectric nanogenerator for environmental energy harvesting and self-powered sensor. Energy and Environmental Science, 2021, 14, 955-964.	15.6	78
5	A study of spherical compression properties of knitted spacer fabrics Part I: Theoretical analysis. Textile Reseach Journal, 2012, 82, 1569-1578.	1.1	35
6	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
7	Electrospun Polyurethane/Zeolitic Imidazolate Framework Nanofibrous Membrane with Superior Stability for Filtering Performance. ACS Applied Polymer Materials, 2021, 3, 710-719.	2.0	26
8	A comprehensive handle evaluation system for fabrics: I. Measurement and characterization of mass and bending properties. Measurement Science and Technology, 2007, 18, 3547-3554.	1.4	24
9	Analysis of spherical compression performance of warp-knitted spacer fabrics. Journal of Industrial Textiles, 2017, 46, 1362-1378.	1.1	24
10	Study of electrothermal properties of silver nanowire/polydopamine/cotton-based nanocomposites. Cellulose, 2019, 26, 5995-6007.	2.4	20
11	Analysis of structure of warp-knitted spacer fabric on pressure indices. Fibers and Polymers, 2015, 16, 2491-2496.	1.1	19
12	Simulation of plate compression behavior of warp-knitted spacer fabrics based on geometry and property parameters. Textile Reseach Journal, 2019, 89, 1051-1064.	1.1	19
13	Determination of featured parameters to cluster stiffness handle of fabrics by the CHES-FY system. Fibers and Polymers, 2013, 14, 1768-1775.	1.1	18
14	Fuzzy comprehensive prediction of fabric stiffness handle based on quasi-three-point restraint test. Fibers and Polymers, 2015, 16, 1395-1402.	1.1	18
15	A Flexible and Highly Sensitive Pressure Sensor Based on AgNWs/NRLF for Hand Motion Monitoring. Nanomaterials, 2019, 9, 945.	1.9	18
16	Study on the structure formation and heat treatment of helical auxetic complex yarn. Textile Reseach Journal, 2019, 89, 1003-1012.	1.1	17
17	Structural design and characterization of highly elastic woven fabric containing helical auxetic yarns. Textile Reseach Journal, 2020, 90, 809-823.	1.1	15
18	Determination of the Bending Characteristic Parameters of the Bending Evaluation System of Fabric and Yarn. Textile Reseach Journal, 2006, 76, 702-711.	1.1	14

#	Article	IF	Citations
19	Determination of pressure indices to characterize the pressure-relief property of spacer fabric based on a pressure pad system. Textile Reseach Journal, 2016, 86, 1443-1451.	1.1	13
20	A Novel Interlaced-helical Wrapping Yarn with Negative Poissonâ€™s Ratio. Fibers and Polymers, 2018, 19, 2411-2417.	1.1	13
21	Analysis of the mechanical properties of double arrowhead auxetic metamaterials under tension. Textile Reseach Journal, 2020, 90, 2411-2427.	1.1	13
22	Structural design and performance characterization of stable helical auxetic yarns based on the hollow-spindle covering system. Textile Reseach Journal, 2020, 90, 271-281.	1.1	12
23	Highly stretchable, stability, flexible yarn-fabric-based multi-scale negative Poissonâ€™s ratio composites. Composite Structures, 2020, 250, 112579.	3.1	12
24	Effects of parameters on mass index of the CHES-FY system. Fibers and Polymers, 2014, 15, 175-180.	1.1	10
25	Directional Trans-Planar and Different In-Plane Water Transfer Properties of Composite Structured Bifacial Fabrics Modified by a Facile Three-Step Plasma Treatment. Coatings, 2017, 7, 132.	1.2	10
26	The manufacture and characterization of auxetic, self-curling, and self-folding woven fabrics by helical auxetic yarns. Journal of Industrial Textiles, 2020, 50, 3-12.	1.1	10
27	Woven Fabric Triboelectric Nanogenerator for Biomotion Energy Harvesting and as Self-Powered Gait-Recognizing Socks. Energies, 2020, 13, 4119.	1.6	10
28	Highly Sensitive MXene Helical Yarn/Fabric Tactile Sensors Enabling Full Scale Movement Detection of Human Motions. Advanced Electronic Materials, 2022, 8, .	2.6	10
29	Determination of model parameters for predicting handle characteristics of wool-rich suiting woven fabrics based on the Wool HandleMeter and KES-F. Journal of the Textile Institute, 2018, 109, 147-159.	1.0	9
30	Physical interpretation of pulling-out curve based on a new apparatus. Journal of the Textile Institute, 2008, 99, 399-406.	1.0	8
31	Structure of the right-handed helical crystal ribbon and multilevel fibrils in a tube fiber from a coir fiber. Cellulose, 2016, 23, 2841-2852.	2.4	8
32	A Theoretical Study on the Effect of Structural Parameter on Tensile Properties of Helical Auxetic Yarns. Fibers and Polymers, 2019, 20, 1742-1748.	1.1	8
33	MXene-containing pressure sensor based on nanofiber film and spacer fabric with ultrahigh sensitivity and Joule heating effect. Textile Reseach Journal, 2022, 92, 1999-2009.	1.1	8
34	Study of the vibration transmission property of warp-knitted spacer fabrics under forced sinusoidal excitation vibration. Textile Reseach Journal, 2018, 88, 922-931.	1.1	7
35	Measurement of fabric handle characteristics based on the Quick-Intelligent Handle Evaluation System for Fabrics (QIHES-F). Textile Reseach Journal, 2019, 89, 3374-3386.	1.1	7
36	Robust, flame-retardant and colorful superamphiphobic aramid fabrics for extreme conditions. Science China Technological Sciences, 2021, 64, 1765-1774.	2.0	7

#	Article	IF	Citations
37	Determination of optimal system parameters to measure bending property of fabric based on the CHES-FY system. Fibers and Polymers, 2014, 15, 874-881.	1.1	6
38	Experimental study on an effective method for the friction property of fabrics by the comprehensive handle evaluation system for fabrics and yarns system. Textile Reseach Journal, 2018, 88, 882-891.	1.1	6
39	Study on the tensile behavior of helical auxetic yarns by modeling and mechanical analysis. Journal of the Textile Institute, 2021, 112, 1531-1537.	1.0	6
40	Analysis of tensile behaviour of hyperelastic auxetic cellular materials with re-entrant hexagonal cells. Journal of the Textile Institute, 2021, 112, 173-186.	1.0	6
41	Simulative analysis of the bending property of woven fabric by the comprehensive handle evaluation system for fabrics and yarns. Textile Reseach Journal, 2017, 87, 1977-1990.	1.1	5
42	Analysis of the damping property of warp-knitted spacer fabrics under damped free vibration. Textile Reseach Journal, 2018, 88, 790-799.	1.1	5
43	In-situ characterization of handle characteristics of suiting woven fabrics by a simultaneous measurement method. Textile Reseach Journal, 2019, 89, 2522-2531.	1.1	5
44	Measuring and multilevel fuzzy comprehensive predicting comfort parameters of soft materials by a new handle evaluation system. Textile Reseach Journal, 2020, 90, 2727-2744.	1.1	5
45	A superhydrophobic and flame-retardant cotton fabric fabricated by an eco-friendly assembling method. Textile Reseach Journal, 2022, 92, 2873-2885.	1.1	5
46	Superamphiphobic and flame-resistant cotton fabrics for protective clothing. Cellulose, 2022, 29, 619-632.	2.4	5
47	Characterization of structure and properties of polylactic fiber. Journal of Applied Polymer Science, 2012, 125, E149.	1.3	4
48	Effect of bending rigidity, Poissonâ€™s ratio and surface friction of fabrics on the stretching step of the comprehensive handle evaluation system for fabrics and yarns. Textile Reseach Journal, 2016, 86, 1947-1961.	1.1	4
49	Influence of re-entrant hexagonal structure and helical auxetic yarn on the tensile and auxetic behavior of parametric fabrics. Textile Reseach Journal, 0, , 004051752199349.	1.1	4
50	Design, preparation, and characterization of auxetic weft backed weave fabrics based on Miura origami structure. Textile Reseach Journal, 2022, 92, 1126-1134.	1.1	4
51	Theoretical study on the bending rigidity of filament yarns with an elliptical cross-section using energy method. I. Theoretical modeling. Fibers and Polymers, 2010, 11, 883-890.	1.1	3
52	Analysis of a quasi-three-point bending test for fabrics with friction and extensibility effect. Textile Reseach Journal, 2017, 87, 2179-2192.	1.1	3
53	Multivariate analysis of curve parameters to predict fabric stiffness handle from a pulling-out test. Textile Reseach Journal, 2018, 88, 863-872.	1.1	3
54	A facile approach to prepare a flexible and durable electrically driven cotton fabric-based heater. Journal of Industrial Textiles, 2022, 51, 406S-419S.	1.1	3

#	Article	IF	Citations
55	Tactile evaluation of down jacket fabric by the comprehensive handle evaluation system for fabrics and yarns. Textile Reseach Journal, 2021, 91, 1227-1238.	1.1	3
56	Design, preparation and characterization of three-dimensional auxetic warp and weft backed weave fabrics based on origami tessellation structures. Textile Reseach Journal, 2022, 92, 3797-3807.	1.1	3
57	Fuzzy clustering analysis of comprehensive hand of polyester fabric based on the CHES-FY system. Textile Reseach Journal, 2021, 91, 743-751.	1.1	2
58	Fractal structure and hydration-driven shape memory of duck down in the dryâ€“wet state. Textile Reseach Journal, 2022, 92, 1444-1453.	1.1	2
59	A Quasi-Fixed-Supported Beam Method for Characterizing Fabric Bending Rigidity and Drape Behaviour by Calculus of Variations. Journal of Fiber Science and Technology, 2017, 73, 202-209.	0.2	1
60	Tactile comfort characterization of knitted fabrics based on the ring-shaped style tester. Textile Reseach Journal, 2021, 91, 766-777.	1.1	1
61	Theoretical analysis of the moisture transfer property for polytetrafluoroethylene/polyethylene terephthalate bi-layer complex fabrics. Textile Reseach Journal, 2021, 91, 984-989.	1.1	1
62	A self-adaptive particle swarm optimization based K-means (SAPSO-K) clustering method to evaluate fabric tactile comfort. Journal of the Textile Institute, 2022, 113, 915-926.	1.0	1
63	Finite element modeling and experimental testing of woven fabric based on a new instrument: simulative analysis of the compression property. Textile Reseach Journal, 0, , 004051752110563.	1.1	1
64	Fabrication and characterization of braided auxetic yarns based on a high-speed braiding machine. Textile Reseach Journal, 0, , 004051752210985.	1.1	1
65	Issues of a Laser Beam: Depolarization, Beam Quality Degradation and It's Transmission System. , 2010, , .		0
66	Analysis of compression property of height-alterable double-layer hollow tubular fabrics for industrial textiles. Journal of Industrial Textiles, 2020, 49, 1160-1177.	1.1	0
67	Theoretical and experimental investigations on the effects of friction, bending rigidity, extensibility, and Poisson's ratio on fabric tensile properties. Textile Reseach Journal, 2021, 91, 555-569.	1.1	0
68	Theoretical modeling and characterization of bending properties of fabrics with friction and extensibility effect. Journal of the Textile Institute, 0, , 1-13.	1.0	0