Xiaoming Tao

List of Publications by Year
in descending order

595 papers	24,281 citations	9775 73 h-index	12585 132 g-index
631 all docs	631 docs citations	631 times ranked	26269 citing authors

#	Article	IF	Citations
1	Fiber–Based Wearable Electronics: A Review of Materials, Fabrication, Devices, and Applications. Advanced Materials, 2014, 26, 5310-5336.	11.1	1,689
2	Coherent detection in optical fiber systems. Optics Express, 2008, 16, 753.	1.7	740
3	Well-Dispersed Chitosan/Graphene Oxide Nanocomposites. ACS Applied Materials & Interfaces, 2010, 2, 1707-1713.	4.0	681
4	Photodetectors Based on Two–Dimensional Layered Materials Beyond Graphene. Advanced Functional Materials, 2017, 27, 1603886.	7.8	534
5	Characterization of mechanical behavior of woven fabrics: Experimental methods and benchmark results. Composites Part A: Applied Science and Manufacturing, 2008, 39, 1037-1053.	3.8	490
6	Smart Textile–Integrated Microelectronic Systems for Wearable Applications. Advanced Materials, 2020, 32, e1901958.	11.1	427
7	A Transparent, Flexible, Low–Temperature, and Solution–Processible Graphene Composite Electrode. Advanced Functional Materials, 2010, 20, 2893-2902.	7.8	380
8	Synthesis and characterization of layer-aligned poly(vinyl alcohol)/graphene nanocomposites. Polymer, 2010, 51, 3431-3435.	1.8	338
9	In-Shoe Plantar Pressure Measurement and Analysis System Based on Fabric Pressure Sensing Array. IEEE Transactions on Information Technology in Biomedicine, 2010, 14, 767-775.	3.6	329
10	Highly durable all-fiber nanogenerator for mechanical energy harvesting. Energy and Environmental Science, 2013, 6, 2631.	15.6	317
11	Simultaneous strain and temperature measurement using a superstructure fiber Bragg grating. IEEE Photonics Technology Letters, 2000, 12, 675-677.	1.3	277
12	A highly sensitive ultraviolet sensor based on a facile in situ solution-grown ZnO nanorod/graphene heterostructure. Nanoscale, 2011, 3, 258-264.	2.8	273
13	Fabrication and properties of microcapsules and nanocapsules containing n-octadecane. Materials Chemistry and Physics, 2004, 88, 300-307.	2.0	268
14	High-performance graphdiyne-based electrochemical actuators. Nature Communications, 2018, 9, 752.	5.8	268
15	Crystallization and prevention of supercooling of microencapsulated n-alkanes. Journal of Colloid and Interface Science, 2005, 281, 299-306.	5.0	251
16	Review of Flexible Temperature Sensing Networks for Wearable Physiological Monitoring. Advanced Healthcare Materials, 2017, 6, 1601371.	3.9	217
17	Thin Film Field–Effect Phototransistors from Bandgap–Tunable, Solution–Processed, Few–Layer Reduced Graphene Oxide Films. Advanced Materials, 2010, 22, 4872-4876.	11.1	209
18	Structure and thermal stability of microencapsulated phase-change materials. Colloid and Polymer Science, 2004, 282, 330-336.	1.0	182

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19	Manageable N-doped Graphene for High Performance Oxygen Reduction Reaction. Scientific Reports, 2013, 3, 2771.	1.6	182
20	Edge Structural Stability and Kinetics of Graphene Chemical Vapor Deposition Growth. ACS Nano, 2012, 6, 3243-3250.	7.3	179
21	A potential material for tissue engineering: Silkworm silk/PLA biocomposite. Composites Part B: Engineering, 2008, 39, 1026-1033.	5.9	175
22	A flexible strain sensor from polypyrrole-coated fabrics. Synthetic Metals, 2005, 155, 89-94.	2.1	163
23	UV-Blocking Property of Dumbbell-Shaped ZnO Crystallites on Cotton Fabrics. Inorganic Chemistry, 2005, 44, 3926-3930.	1.9	163
24	Carbon nanotube-reinforced polyurethane composite fibers. Composites Science and Technology, 2006, 66, 3029-3034.	3.8	163
25	Mechanism of Photoluminescence from Chemically Derived Graphene Oxide: Role of Chemical Reduction. Advanced Optical Materials, 2013, 1, 926-932.	3.6	160
26	Catalytic ozonation of simulated textile dyeing wastewater using mesoporous carbon aerogel supported copper oxide catalyst. Journal of Cleaner Production, 2016, 112, 4710-4718.	4.6	160
27	Superhydrophobic Silica Nanocomposite Coating by a Low‐Temperature Process. Journal of the American Ceramic Society, 2004, 87, 1782-1784.	1.9	159
28	Fiber Bragg grating cavity sensor for simultaneous measurement of strain and temperature. IEEE Photonics Technology Letters, 1999, 11, 105-107.	1.3	158
29	Smart fibres, fabrics and clothing. , 2001, , .		156
30	Combining Thio‐Bromo "Click" Chemistry and RAFT Polymerization: A Powerful Tool for Preparing Functionalized Multiblock and Hyperbranched Polymers. Macromolecules, 2010, 43, 20-24.	2.2	153
31	Thermally drawn advanced functional fibers: New frontier of flexible electronics. Materials Today, 2020, 35, 168-194.	8.3	153
32	Enhanced mechanical properties and morphological characterizations of poly(vinyl alcohol)–carbon nanotube composite films. Applied Surface Science, 2005, 252, 1404-1409.	3.1	149
33	Graphene-Draped Semiconductors for Enhanced Photocorrosion Resistance and Photocatalytic Properties. Journal of the American Chemical Society, 2017, 139, 4144-4151.	6.6	149
34	ZnO Nanorods grown on cotton fabrics at low temperature. Chemical Physics Letters, 2004, 398, 250-255.	1.2	148
35	A Fully Verified Theoretical Analysis of Contact‐Mode Triboelectric Nanogenerators as a Wearable Power Source. Advanced Energy Materials, 2016, 6, 1600505.	10.2	148
36	High stretchable MWNTs/polyurethane conductive nanocomposites. Journal of Materials Chemistry, 2011, 21, 7274.	6.7	143

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37	Mechanical analysis of 3-D braided composites by the finite multiphase element method. Composites Science and Technology, 1999, 59, 2383-2391.	3.8	140
38	Latency Minimization for D2D-Enabled Partial Computation Offloading in Mobile Edge Computing. IEEE Transactions on Vehicular Technology, 2020, 69, 4472-4486.	3.9	140
39	Textile-structured electrodes for electrocardiogram. Textile Progress, 2008, 40, 183-213.	1.3	134
40	Holey reduced graphene oxide nanosheets for high performance room temperature gas sensing. Journal of Materials Chemistry A, 2014, 2, 17415-17420.	5.2	124
41	Facile Synthesis of Wide‐Bandgap Fluorinated Graphene Semiconductors. Chemistry - A European Journal, 2011, 17, 8896-8903.	1.7	121
42	A high performance fiber-shaped $PEDOT@MnO_2//C@Fe_3O_4$ asymmetric supercapacitor for wearable electronics. Journal of Materials Chemistry A, 2016, 4, 14877-14883.	5.2	118
43	A QoS-Aware Power Optimization Scheme in OFDMA Systems with Integrated Device-to-Device (D2D) Communications. , 2011, , .		114
44	Electromechanical properties of a yarn strain sensor with graphene-sheath/polyurethane-core. Carbon, 2017, 118, 686-698.	5.4	113
45	Fiber‐Based Thermoelectric Generators: Materials, Device Structures, Fabrication, Characterization, and Applications. Advanced Energy Materials, 2018, 8, 1700524.	10.2	108
46	Electrically conductive yarns based on PVA/carbon nanotubes. Composite Structures, 2007, 78, 271-277.	3.1	107
47	Self‐Powered Piezoionic Strain Sensor toward the Monitoring of Human Activities. Small, 2016, 12, 5074-5080.	5.2	105
48	A Ternary Dumbbell Structure with Spatially Separated Catalytic Sites for Photocatalytic Overall Water Splitting. Advanced Science, 2020, 7, 1903568.	5.6	104
49	Electro-Mechanical Properties of Knitted Fabric Made From Conductive Multi-Filament Yarn Under Unidirectional Extension. Textile Reseach Journal, 2005, 75, 598-606.	1.1	101
50	Serum uric acid level and its association with metabolic syndrome and carotid atherosclerosis in patients with type 2 diabetes. Cardiovascular Diabetology, 2011, 10, 72.	2.7	100
51	Conductive knitted fabric as large-strain gauge under high temperature. Sensors and Actuators A: Physical, 2006, 126, 129-140.	2.0	99
52	Wearable strain sensing textile based on one-dimensional stretchable and weavable yarn sensors. Nano Research, 2018, 11, 5799-5811.	5.8	99
53	Regeneration and reuse of highly polluting textile dyeing effluents through catalytic ozonation with carbon aerogel catalysts. Journal of Cleaner Production, 2016, 137, 1055-1065.	4.6	97
54	Energy storage polymer/MicroPCMs blended chips and thermo-regulated fibers. Journal of Materials Science, 2005, 40, 3729-3734.	1.7	96

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55	Defect-engineered reduced graphene oxide sheets with high electric conductivity and controlled thermal conductivity for soft and flexible wearable thermoelectric generators. Nano Energy, 2018, 54, 163-174.	8.2	94
56	QoS-Aware Energy-Efficient Radio Resource Scheduling in Multi-User OFDMA Systems. IEEE Communications Letters, 2013, 17, 75-78.	2.5	93
57	Low-dimensional carbon based sensors and sensing network for wearable health and environmental monitoring. Carbon, 2017, 121, 353-367.	5.4	93
58	Room temperature gas sensing properties of SnO2/multiwall-carbon-nanotube composite nanofibers. Applied Physics Letters, 2007, 91, .	1.5	92
59	Investigation of carbon black/silicone elastomer/dimethylsilicone oil composites for flexible strain sensors. Polymer Testing, 2012, 31, 677-684.	2.3	90
60	What are the active carbon species during graphene chemical vapor deposition growth?. Nanoscale, 2015, 7, 1627-1634.	2.8	89
61	Enhancing the Performance of Fabric-Based Triboelectric Nanogenerators by Structural and Chemical Modification. ACS Applied Materials & Interfaces, 2021, 13, 16916-16927.	4.0	89
62	Salt-assisted direct exfoliation of graphite into high-quality, large-size, few-layer graphene sheets. Nanoscale, 2013, 5, 7202.	2.8	88
63	Energy-Efficient Resource Allocation in LTE-Based MIMO-OFDMA Systems With User Rate Constraints. IEEE Transactions on Vehicular Technology, 2015, 64, 185-197.	3.9	88
64	Signal Design and Detection in Presence of Nonlinear Phase Noise. Journal of Lightwave Technology, 2007, 25, 3008-3016.	2.7	86
65	Easy synthesis of carbon nanotubes with polypyrrole nanotubes as the carbon precursor. Polymer, 2009, 50, 2815-2818.	1.8	86
66	Fundamentals and applications of optical fiber Bragg grating sensors to textile structural composites. Composite Structures, 1998, 42, 217-229.	3.1	85
67	2D Materials Based Optoelectronic Memory: Convergence of Electronic Memory and Optical Sensor. Research, 2019, 2019, 9490413.	2.8	85
68	Flexible organic light-emitting diodes with a polymeric nanocomposite anode. Nanotechnology, 2008, 19, 145201.	1.3	81
69	Recent progress of fiber-shaped asymmetric supercapacitors. Materials Today Energy, 2017, 5, 1-14.	2.5	80
70	Trans-4-stilbenemethanol-doped photosensitive polymer fibers and gratings. Optics Letters, 2004, 29, 156.	1.7	79
71	Large deformation and slippage mechanism of plain woven composite in bias extension. Composites Part A: Applied Science and Manufacturing, 2007, 38, 1821-1828.	3.8	79
72	Highly Flexible, Large-Area, and Facile Textile-Based Hybrid Nanogenerator with Cascaded Piezoelectric and Triboelectric Units for Mechanical Energy Harvesting. Advanced Materials Technologies, 2018, 3, 1800016.	3.0	79

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73	Low Temperature Plasma Treatment of Linen. Textile Reseach Journal, 1999, 69, 846-855.	1.1	78
74	An experimental study of in-plane large shear deformation of woven fabric composite. Composites Science and Technology, 2007, 67, 252-261.	3.8	77
75	Low-complexity and phase noise tolerant carrier phase estimation for dual-polarization 16-QAM systems. Optics Express, 2011, 19, 21717.	1.7	76
76	Enhancing the Performance of a Stretchable and Transparent Triboelectric Nanogenerator by Optimizing the Hydrogel Ionic Electrode Property. ACS Applied Materials & Interfaces, 2020, 12, 23474-23483.	4.0	76
77	Structures and Properties of Wet Spun Thermo-Regulated Polyacrylonitrile-Vinylidene Chloride Fibers. Textile Reseach Journal, 2006, 76, 351-359.	1.1	75
78	Fabrication and characterization of OLEDs using PEDOT:PSS and MWCNT nanocomposites. Composites Science and Technology, 2008, 68, 2837-2841.	3.8	75
79	Self-Organizing Alignment of Carbon Nanotubes in Thermoplastic Polyurethane. Macromolecular Rapid Communications, 2005, 26, 1763-1767.	2.0	73
80	Graphene-Bridged Multifunctional Flexible Fiber Supercapacitor with High Energy Density. ACS Applied Materials & Interfaces, 2018, 10, 28597-28607.	4.0	73
81	Study of Fiber-Based Wearable Energy Systems. Accounts of Chemical Research, 2019, 52, 307-315.	7.6	73
82	Electromechanical Behavior of Fibers Coated with an Electrically Conductive Polymer. Textile Reseach Journal, 2004, 74, 929-936.	1.1	71
83	Triboelectric charge density of porous and deformable fabrics made from polymer fibers. Nano Energy, 2018, 53, 383-390.	8.2	71
84	Lipocalin-2, glucose metabolism and chronic low-grade systemic inflammation in Chinese people. Cardiovascular Diabetology, 2012, 11, 11.	2.7	70
85	Quantifying Energy Harvested from Contactâ€Mode Hybrid Nanogenerators with Cascaded Piezoelectric and Triboelectric Units. Advanced Energy Materials, 2017, 7, 1601569.	10.2	69
86	An elegant coupling: Freeze-casting and versatile polymer composites. Progress in Polymer Science, 2020, 109, 101289.	11.8	69
87	Wicking Properties of Linen Treated with Low Temperature Plasma. Textile Reseach Journal, 2001, 71, 49-56.	1.1	67
88	Expansion space and thermal stability of microencapsulatedn-octadecane. Journal of Applied Polymer Science, 2005, 97, 390-396.	1.3	67
89	Thermal degradation kinetics and lifetime prediction of a luminescent conducting polymer. Polymer International, 2004, 53, 20-26.	1.6	64
90	Compression Garments for Medical Therapy and Sports. Polymers, 2018, 10, 663.	2.0	63

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91	Recent advances in wearable textile‑based triboelectric generator systems for energy harvesting from human motion. EcoMat, 2020, 2, e12054.	6.8	63
92	Control of natural frequencies of a clamped–clamped composite beam with embedded shape memory alloy wires. Composite Structures, 2002, 58, 39-47.	3.1	62
93	Production and characterization of polymer nanocomposite with aligned single wall carbon nanotubes. Applied Surface Science, 2006, 252, 3547-3552.	3.1	62
94	Breath Figure Micromolding Approach for Regulating the Microstructures of Polymeric Films for Triboelectric Nanogenerators. ACS Applied Materials & Interfaces, 2017, 9, 4988-4997.	4.0	62
95	Development of formaldehyde-free agar/gelatin microcapsules containing berberine HCl and gallic acid and their topical and oral applications. Soft Matter, 2012, 8, 5027.	1.2	61
96	A New Approach for Readout of Resistive Sensor Arrays for Wearable Electronic Applications. IEEE Sensors Journal, 2015, 15, 442-452.	2.4	60
97	Microstructures and electrical conductance of silver nanocrystalline thin films on flexible polymer substrates. Surface and Coatings Technology, 2010, 204, 1206-1210.	2.2	59
98	Equalization-enhanced phase noise for 100Gb/s transmission and beyond with coherent detection. Optics Express, 2010, 18, 17239.	1.7	59
99	Design of Novel Wearable, Stretchable, and Waterproof Cable‑Type Supercapacitors Based on High‑Performance Nickel Cobalt Sulfide‑Coated Etching‑Annealed Yarn Electrodes. Small, 2018, 14, e1704373.	5.2	59
100	Chitosan Natural Polymer Material for Improving Antibacterial Properties of Textiles. ACS Applied Bio Materials, 2021, 4, 4014-4038.	2.3	59
101	Optical Performance Monitoring Using Artificial Neural Networks Trained With Empirical Moments of Asynchronously Sampled Signal Amplitudes. IEEE Photonics Technology Letters, 2012, 24, 982-984.	1.3	58
102	Electromechanical analysis of length-related resistance and contact resistance of conductive knitted fabrics. Textile Reseach Journal, 2012, 82, 2062-2070.	1.1	58
103	Wearable self-powered human motion sensors based on highly stretchable quasi-solid state hydrogel. Nano Energy, 2021, 88, 106272.	8.2	58
104	Mode coupling dynamics and communication strategies for multi-core fiber systems. Optics Express, 2012, 20, 4548.	1.7	57
105	Preparation of durable hydrophobic cellulose fabric from water glass and mixed organosilanes. Applied Surface Science, 2010, 257, 1495-1499.	3.1	56
106	Genetic variation in the GCKR gene is associated with non-alcoholic fatty liver disease in Chinese people. Molecular Biology Reports, 2011, 38, 1145-1150.	1.0	56
107	Three-dimensionally deformable, highly stretchable, permeable, durable and washable fabric circuit boards. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2014, 470, 20140472.	1.0	56
108	Association between socioeconomic status and metabolic control and diabetes complications: a cross-sectional nationwide study in Chinese adults with type 2 diabetes mellitus. Cardiovascular Diabetology, 2016, 15, 61.	2.7	56

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109	Recent advances in soft functional materials: preparation, functions and applications. Nanoscale, 2020, 12, 1281-1306.	2.8	56
110	Solvent-free adhesive ionic elastomer for multifunctional stretchable electronics. Nano Energy, 2022, 91, 106611.	8.2	54
111	Ionic Hydrogel for Efficient and Scalable Moisture–Electric Generation. Advanced Materials, 2022, 34, e2200693.	11.1	54
112	Investigating the influence of a weak continuous-wave-trigger on picosecond supercontinuum generation. Optics Express, 2011, 19, 13757.	1.7	53
113	Morphological and electromechanical studies of fibers coated with electrically conductive polymer. Journal of Applied Polymer Science, 2005, 98, 1844-1854.	1.3	52
114	Strain sensing behavior of electrically conductive fibers under large deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 2863-2869.	2.6	52
115	Modulation of refractive index and thickness of poly(methyl methacrylate) thin films with UV irradiation and heat treatment. Applied Surface Science, 2005, 252, 1283-1292.	3.1	51
116	Synthesis and characterization of hydrophobic silica nanocomposites. Applied Surface Science, 2006, 252, 5368-5371.	3.1	51
117	Luminous fabric devices for wearable low-level light therapy. Biomedical Optics Express, 2013, 4, 2925.	1.5	51
118	Multifunctional Smart Optical Fibers: Materials, Fabrication, and Sensing Applications. Photonics, 2019, 6, 48.	0.9	51
119	Monolithic Integration of All‐in‐One Supercapacitor for 3D Electronics. Advanced Energy Materials, 2019, 9, 1900037.	10.2	51
120	Simultaneous measurement of axial strain, temperature, and transverse load by a superstructure fiber grating. Optics Letters, 2001, 26, 1949.	1.7	50
121	Fully Controllable Design and Fabrication of Three-Dimensional Lattice Supercapacitors. ACS Applied Materials & Interfaces, 2018, 10, 39839-39850.	4.0	50
122	Shaddock peels-based activated carbon as cost-saving adsorbents for efficient removal of Cr (VI) and methyl orange. Environmental Science and Pollution Research, 2019, 26, 19828-19842.	2.7	50
123	Textile Electronics for VR/AR Applications. Advanced Functional Materials, 2021, 31, 2007254.	7.8	50
124	Modification of Conductive Polymer for Polymeric Anodes of Flexible Organic Light-Emitting Diodes. Nanoscale Research Letters, 2009, 4, 613-7.	3.1	49
125	Ruthenium-Catalyzed Enantioselective Hydrogenation of Aryl-Pyridyl Ketones. Journal of Organic Chemistry, 2012, 77, 612-616.	1.7	49
126	Versatile Janus Composite Nonwoven Solar Absorbers with Salt Resistance for Efficient Wastewater Purification and Desalination. ACS Applied Materials & Interfaces, 2021, 13, 24945-24956.	4.0	49

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127	Experimental and theoretical analysis of fiber Bragg gratings under lateral compression. Optics Communications, 2002, 206, 81-87.	1.0	48
128	Flexible pressure sensors for smart protective clothing against impact loading. Smart Materials and Structures, 2014, 23, 015001.	1.8	48
129	Novel C-rich carbon nitride for room temperature NO_2 gas sensors. RSC Advances, 2014, 4, 18003-18006.	1.7	48
130	Hyperspectral Image Denoising via Matrix Factorization and Deep Prior Regularization. IEEE Transactions on Image Processing, 2020, 29, 565-578.	6.0	47
131	Soft Fiber Optic Sensors for Precision Measurement of Shear Stress and Pressure. IEEE Sensors Journal, 2013, 13, 1478-1482.	2.4	46
132	Learning QoE of Mobile Video Transmission With Deep Neural Network: A Data-Driven Approach. IEEE Journal on Selected Areas in Communications, 2019, 37, 1337-1348.	9.7	46
133	Task-Oriented Multi-User Semantic Communications. IEEE Journal on Selected Areas in Communications, 2022, 40, 2584-2597.	9.7	46
134	Cladding-mode-assisted recouplings in concatenated long-period and fiber Bragg gratings. Optics Letters, 2002, 27, 1214.	1.7	45
135	Preparation of Porous Tin Oxide Nanobelts Using the Electrospinning Technique. Journal of the American Ceramic Society, 2008, 91, 257-262.	1.9	45
136	In situ SEM studies on strain sensing mechanisms of PPy-coated electrically conducting fabrics. Applied Surface Science, 2007, 253, 3387-3392.	3.1	45
137	Structural and mechanical properties of polymeric optical fiber. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 364, 256-259.	2.6	44
138	Effect of Crystal Melting on Water Vapor Permeability of Shape-Memory Polyurethane Film. Textile Reseach Journal, 2004, 74, 39-43.	1.1	44
139	Experimental investigation of formability of commingled woven composite preform in stamping operation. Composites Part B: Engineering, 2011, 42, 289-295.	5.9	44
140	Fabrication and evaluation of a notched polymer optical fiber fabric strain sensor and its application in human respiration monitoring. Textile Reseach Journal, 2014, 84, 1791-1802.	1.1	44
141	Plant structured textile fabrics. Materials Letters, 2007, 61, 561-565.	1.3	43
142	Investigation on the electrical response behaviors of multiwalled carbon nanotube/polyurethane composite in organic solvent vapors. Sensors and Actuators B: Chemical, 2012, 166-167, 330-337.	4.0	43
143	Scalable production of ultrafine polyaniline fibres for tactile organic electrochemical transistors. Nature Communications, 2022, 13, 2101.	5.8	43
144	Evaluating the efficacy of tele-cognitive rehabilitation for functional performance in three case studies. Occupational Therapy International, 2003, 10, 20-38.	0.3	41

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145	Theoretical Modeling of Large Shear Deformation and Wrinkling of Plain Woven Composite. Journal of Composite Materials, 2009, 43, 125-138.	1.2	41
146	Inscription of Polymer Optical Fiber Bragg Grating at 962 nm and Its Potential in Strain Sensing. IEEE Photonics Technology Letters, 2010, 22, 1562-1564.	1.3	41
147	Diastereo- and Enantioselective Asymmetric Hydrogenation of α-Amido-β-keto Phosphonates via Dynamic Kinetic Resolution. Organic Letters, 2013, 15, 72-75.	2.4	41
148	Effects of aqueous stable fullerene nanocrystal (nC 60) on Scenedesmus obliquus : Evaluation of the sub-lethal photosynthetic responses and inhibition mechanism. Chemosphere, 2015, 122, 162-167.	4.2	41
149	Viewport Proposal CNN for 360° Video Quality Assessment. , 2019, , .		40
150	The energy-absorbing capacity of grid-domed textile composites. Composites Science and Technology, 2000, 60, 785-800.	3.8	39
151	Polypyrrole-coated conductive fabrics as a candidate for strain sensors. Journal of Materials Science, 2005, 40, 4093-4095.	1.7	38
152	Robust Deposition of Silver Nanoparticles on Paper Assisted by Polydopamine for Green and Flexible Electrodes. ACS Sustainable Chemistry and Engineering, 2020, 8, 12842-12851.	3.2	37
153	Preparation of Temperature-Sensitive Polyurethanes for Smart Textiles. Textile Reseach Journal, 2006, 76, 406-413.	1.1	36
154	Polymer Nanostructures Made by Scanning Probe Lithography: Recent Progress in Material Applications. Macromolecular Rapid Communications, 2012, 33, 359-373.	2.0	36
155	Wearable electronics and photonics. , 2005, , .		36
156	Deep Learning-Based Image Semantic Coding for Semantic Communications. , 2021, , .		36
157	Highly stable fiber Bragg gratings written in hydrogen-loaded fiber. IEEE Photonics Technology Letters, 2000, 12, 1349-1351.	1.3	35
158	PPARG gene Pro12Ala variant contributes to the development of non-alcoholic fatty liver in middle-aged and older Chinese population. Molecular and Cellular Endocrinology, 2012, 348, 255-259.	1.6	35
159	Wearable photonics based on integrative polymeric photonic fibres. , 2005, , 136-154.		34
160	Ru-Catalyzed Asymmetric Hydrogenation of γ-Heteroatom Substituted β-Keto Esters. Journal of Organic Chemistry, 2011, 76, 9444-9451.	1.7	34
161	A novel approach to improving the quality of chitosan blended yarns using static theory. Textile Reseach Journal, 2015, 85, 1022-1034.	1.1	34
162	Study on properties of elastic core-spun yarns containing a mix of spandex and PET/PTT bi-component filament as core. Textile Reseach Journal, 2018, 88, 1065-1076.	1.1	34

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163	Topographical Study of Low Temperature Plasma Treated Flax Fibers. Textile Reseach Journal, 2000, 70, 886-893.	1.1	32
164	OSNR Monitoring for RZ-DQPSK Systems Using Half-Symbol Delay-Tap Sampling Technique. IEEE Photonics Technology Letters, 2010, 22, 823-825.	1.3	32
165	Linear photonic radio frequency phase shifter using a differential-group-delay element and an optical phase modulator. Optics Letters, 2010, 35, 1881.	1.7	32
166	Vapor phase polymerization of 3,4â€ethylenedioxythiophene on flexible substrate and its application on heat generation. Polymers for Advanced Technologies, 2011, 22, 1049-1055.	1.6	32
167	Adaptive Chromatic Dispersion Compensation for Coherent Communication Systems Using Delay-Tap Sampling Technique. IEEE Photonics Technology Letters, 2011, 23, 1016-1018.	1.3	32
168	Enantioselective Hydrogenation of Î²-Ketophosphonates with Chiral Ru(II) Catalysts. Journal of Organic Chemistry, 2012, 77, 8401-8409.	1.7	32
169	A highly durable textile-based sensor as a human-worn material interface for long-term multiple mechanical deformation sensing. Journal of Materials Chemistry C, 2019, 7, 14651-14663.	2.7	32
170	Piezocatalytic Foam for Highly Efficient Degradation of Aqueous Organics. Small Science, 2021, 1, 2000011.	5.8	32
171	Antibacterial, Scalable Manufacturing, Skin-Attachable, and Eco-Friendly Fabric Triboelectric Nanogenerators for Self-Powered Sensing. ACS Sustainable Chemistry and Engineering, 2021, 9, 13356-13366.	3.2	32
172	Novel fabric pressure sensors: design, fabrication, and characterization. Smart Materials and Structures, 2011, 20, 065015.	1.8	31
173	Synergetic Effects of Humidity and Temperature on PMMA Based Fiber Bragg Gratings. Journal of Lightwave Technology, 2012, 30, 841-845.	2.7	31
174	Temperature effect on the conductivity of knitted fabrics embedded with conducting yarns. Textile Reseach Journal, 2014, 84, 1849-1857.	1.1	31
175	A wearable and highly sensitive CO sensor with a macroscopic polyaniline nanofiber membrane. Journal of Materials Chemistry A, 2015, 3, 24333-24337.	5.2	30
176	Dense Convolutional Networks for Semantic Segmentation. IEEE Access, 2019, 7, 43369-43382.	2.6	30
177	Silk and Silk Composite Aerogel-Based Biocompatible Triboelectric Nanogenerators for Efficient Energy Harvesting. Industrial & Engineering Chemistry Research, 2020, 59, 12399-12408.	1.8	30
178	Tensile properties and meso-scale mechanism of weft knitted textile composites for energy absorption. Composites Part A: Applied Science and Manufacturing, 2002, 33, 113-123.	3.8	29
179	Systematic investigation and optimization of fine cotton yarns produced in a modified ring spinning system using statistical methods. Textile Reseach Journal, 2013, 83, 238-248.	1.1	29
180	Hierarchical objectness network for region proposal generation and object detection. Pattern Recognition, 2018, 83, 260-272.	5.1	29

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181	A novel sensate 'string' for large-strain measurement at high temperature. Measurement Science and Technology, 2006, 17, 450-458.	1.4	28
182	Ru-Catalyzed Asymmetric Hydrogenation of 3-Oxoglutaric Acid Derivatives via Solvent-Assisted Pinpoint Recognition of Carbonyls in Close Chemical Propinquity. Organic Letters, 2011, 13, 3876-3879.	2.4	28
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