

Wearable Electronics and Smart Textiles: A Critical Review

Sensors

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Citation Report

#	ARTICLE	IF	CITATIONS
1	The Advanced Photon Source 352-MHz high-power RF test stand. , 0, , .		1
2	Development of a Fully Digital and Low-frequency NMR System for Polarization Measurement of Hyperpolarized Gases. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2006, , .	0.0	4
3	The effect of the turn $\hat{e}^{\text{On}}\hat{e}^{\text{TM}}$ resistance of an active device and the Q factor of the load harmonic network on the efficiency and efficiency bandwidth of a class E amplifier. , 2010, , .		1
4	The concept of Secure Mobile Wallet. , 2011, , .		6
5	Smart Cellulose Fibers Coated with Carbon Nanotube Networks. Fibers, 2014, 2, 295-307.	4.0	59
6	The Virtual Toxicology Service: Wearable Head-Mounted Devices for Medical Toxicology. Journal of Medical Toxicology, 2014, 10, 382-387.	1.5	24
7	Recent trends and future scope in the protection and comfort of fire-fighters \hat{e}^{TM} personal protective clothing. Fire Science Reviews, 2014, 3, .	0.9	62
8	Electrocardiographic monitoring during marathon running: a proof of feasibility for a new telemedical approach. European Journal of Preventive Cardiology, 2014, 21, 32-37.	1.8	11
9	A post-CMOS compatible smart yarn technology based on SOI wafers. Sensors and Actuators A: Physical, 2015, 233, 397-404.	4.1	8
10	Fabric antenna with body temperature sensing for BAN applications over 5G wireless systems. , 2015, , .		5
11	Synergistic High Charge-Storage Capacity for Multi-level Flexible Organic Flash Memory. Scientific Reports, 2015, 5, 12299.	3.3	50
12	Direct patterning of organic conductors on knitted textiles for long-term electrocardiography. Scientific Reports, 2015, 5, 15003.	3.3	145
13	Contact Resistance Comparison of Flip-Chip Joints Produced with Anisotropic Conductive Adhesive and Nonconductive Adhesive for Smart Textile Applications. Materials Transactions, 2015, 56, 1711-1718.	1.2	16
14	A review-application of physical vapor deposition (PVD) and related methods in the textile industry. EPJ Applied Physics, 2015, 71, 31302.	0.7	67
15	Weaving electronic circuit into two-layer fabric. , 2015, , .		14
16	Colorful Textile Antennas Integrated into Embroidered Logos. Journal of Sensor and Actuator Networks, 2015, 4, 371-377.	3.9	23
17	Textile-Based Electronic Components for Energy Applications: Principles, Problems, and Perspective. Nanomaterials, 2015, 5, 1493-1531.	4.1	81
19	Wearable Electronics Sensors. Smart Sensors, Measurement and Instrumentation, 2015, , .	0.6	32

#	ARTICLE	IF	CITATIONS
20	Monolayer-Mediated Growth of Organic Semiconductor Films with Improved Device Performance. Langmuir, 2015, 31, 9748-9761.	3.5	16
21	Highly Stretchable and Ultrasensitive Strain Sensor Based on Reduced Graphene Oxide Microtubesâ€Elastomer Composite. ACS Applied Materials & Interfaces, 2015, 7, 27432-27439.	8.0	189
22	Evaluation of novel textile electrodes for ECG signals monitoring based on PEDOT:PSS-treated woven fabrics. , 2015, 2015, 3197-200.		9
23	Crystalline Bacterial Surface Layer (S-Layer) Opens Golden Opportunities for Nanobiotechnology in Textiles. IEEE Transactions on Nanobioscience, 2015, 14, 952-959.	3.3	1
24	Scale-up of oCVD: large-area conductive polymer thin films for next-generation electronics. Materials Horizons, 2015, 2, 221-227.	12.2	59
25	Asymmetric and symmetric supercapacitors based on polypyrrole and activated carbon electrodes. Synthetic Metals, 2015, 203, 192-199.	3.9	44
26	Graphene-clad textile electrodes for electrocardiogram monitoring. Sensors and Actuators B: Chemical, 2015, 221, 1469-1474.	7.8	186
27	Electrical Switchability and Dry-Wash Durability of Conductive Textiles. Scientific Reports, 2015, 5, 11255.	3.3	39
28	Flexible thermoelectric materials and device optimization for wearable energy harvesting. Journal of Materials Chemistry C, 2015, 3, 10362-10374.	5.5	518
29	Low cost inkjet printing for the fast prototyping of surface EMG detection systems. , 2015, , .		7
30	The Application of a Piezo-Resistive Cardiorespiratory Sensor System in an Automobile Safety Belt. Sensors, 2015, 15, 7742-7753.	3.8	35
31	Strain Sensors in Wearable Devices. Smart Sensors, Measurement and Instrumentation, 2015, , 221-239.	0.6	7
32	Failure mechanism in fiber-shaped electrodes for lithium-ion batteries. Journal of Materials Chemistry A, 2015, 3, 10942-10948.	10.3	26
33	Conductive fibres for electronic textiles. , 2015, , 3-20.		9
34	Silver nanowire coated threads for electrically conductive textiles. Journal of Materials Chemistry C, 2015, 3, 3908-3912.	5.5	135
35	High-Performance Flexible Ultraviolet (UV) Phototransistor Using Hybrid Channel of Vertical ZnO Nanorods and Graphene. ACS Applied Materials & Interfaces, 2015, 7, 11032-11040.	8.0	77
36	Fiber Encapsulation Additive Manufacturing: An Enabling Technology for 3D Printing of Electromechanical Devices and Robotic Components. 3D Printing and Additive Manufacturing, 2015, 2, 32-39.	2.9	64
37	Novel Carbon Nanotube/Cellulose Composite Fibers As Multifunctional Materials. ACS Applied Materials & Interfaces, 2015, 7, 22404-22412.	8.0	114

#	ARTICLE	IF	CITATIONS
38	Ultra-thin sensor array for 3D curvature sensing. , 2015, , .		0
39	The Effect of Electrode Designs Based on the Anatomical Heart Location for the Non-Contact Heart Activity Measurement. Journal of Medical Systems, 2015, 39, 191.	3.6	5
40	Crack-Insensitive Wearable Electronics Enabled Through High-Strength Kevlar Fabrics. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2015, 5, 1230-1236.	2.5	9
41	A Linear Wide-Range Textile Pressure Sensor Integrally Embedded in Regular Fabric. IEEE Sensors Journal, 2015, 15, 5384-5385.	4.7	31
42	Low power wearable system for vital signs measurement in all day long applications. , 2015, , .		7
43	Design and Fabrication of a Capacitance Based Wearable Pressure Sensor Using E-textiles. Procedia Technology, 2015, 20, 270-275.	1.1	14
44	A robust method for producing electromagnetic shielding cellulose via iron oxide pillared clay coating under ultraviolet irradiation. Functional Materials Letters, 2015, 08, 1550073.	1.2	23
45	Capacitive Energy Storage: Current and Future Challenges. Journal of Physical Chemistry Letters, 2015, 6, 3594-3609.	4.6	99
46	Wearable non-volatile memory devices based on topological insulator Bi ₂ Se ₃ /Pt fibers. Applied Physics Letters, 2015, 107, .	3.3	9
47	Knitted Strain Sensor Textiles of Highly Conductive All-Polymeric Fibers. ACS Applied Materials & Interfaces, 2015, 7, 21150-21158.	8.0	267
48	Strongly Dichroic Organic Films via Controlled Assembly of Modular Aromatic Charge-Transfer Liquid Crystals. Organic Letters, 2015, 17, 4834-4837.	4.6	23
49	Flexible Si/PEDOT:PSS hybrid solar cells. Nano Research, 2015, 8, 3141-3149.	10.4	27
50	Performance of hybrid nanostructured conductive cotton materials as wearable devices: an overview of materials, fabrication, properties and applications. RSC Advances, 2015, 5, 107716-107770.	3.6	72
52	Non-destructive X-ray examination of weft knitted wire structures. IOP Conference Series: Materials Science and Engineering, 2016, 141, 012007.	0.6	1
53	Measurements of Generated Energy/Electrical Quantities from Locomotion Activities Using Piezoelectric Wearable Sensors for Body Motion Energy Harvesting. Sensors, 2016, 16, 524.	3.8	50
54	Textile electronic circuits based on organic fibrous transistors. , 2016, , 569-598.		6
55	A Novel Two-Step Method for Fabricating Silver Plating Cotton Fabrics. Journal of Nanomaterials, 2016, 2016, 1-11.	2.7	13
56	Force Sensing Resistor and Evaluation of Technology for Wearable Body Pressure Sensing. Journal of Sensors, 2016, 2016, 1-13.	1.1	97

#	ARTICLE	IF	CITATIONS
57	A Novel Low-Cost, Large Curvature Bend Sensor Based on a Bowden-Cable. <i>Sensors</i> , 2016, 16, 961.	3.8	23
58	Smarten up garments through knitting. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016, 141, 012008.	0.6	9
59	Non-Invasive Sensor Technology for the Development of a Dairy Cattle Health Monitoring System. <i>Computers</i> , 2016, 5, 23.	3.3	28
60	A Wearable System for the Evaluation of the Human-Horse Interaction: A Preliminary Study. <i>Electronics (Switzerland)</i> , 2016, 5, 63.	3.1	28
61	Recent Advancements in Liquid Metal Flexible Printed Electronics: Properties, Technologies, and Applications. <i>Micromachines</i> , 2016, 7, 206.	2.9	154
62	The Coupled Photothermal Reaction and Transport in a Laser Additive Metal Nanolayer Simultaneous Synthesis and Patterning for Flexible Electronics. <i>Nanomaterials</i> , 2016, 6, 12.	4.1	9
63	A Dynamic Instrumentation Amplifier for Low-Power and Low-Noise Biopotential Acquisition. <i>Sensors</i> , 2016, 16, 354.	3.8	6
64	Defining Requirements and Related Methods for Designing Sensorized Garments. <i>Sensors</i> , 2016, 16, 769.	3.8	42
65	Smart Coat with a Fully-Embedded Textile Antenna for IoT Applications. <i>Sensors</i> , 2016, 16, 938.	3.8	59
66	Flexible Piezoelectric Energy Harvesting from Mouse Click Motions. <i>Sensors</i> , 2016, 16, 1045.	3.8	44
67	Comparison of Non-Invasive Individual Monitoring of the Training and Health of Athletes with Commercially Available Wearable Technologies. <i>Frontiers in Physiology</i> , 2016, 7, 71.	2.8	110
68	Wearable textile patch antenna fed by proximity coupling with increased bandwidth. <i>Microwave and Optical Technology Letters</i> , 2016, 58, 1906-1912.	1.4	14
69	A Review of Theoretical and Practical Challenges of Trusted Autonomy in Big Data. <i>IEEE Access</i> , 2016, 4, 2808-2830.	4.2	22
70	Textile Technologies and Tissue Engineering: A Path Toward Organ Weaving. <i>Advanced Healthcare Materials</i> , 2016, 5, 751-766.	7.6	161
71	Highly Bendable and Stretchable Electrodes Based on Micro/Nanostructured Gold Films for Flexible Sensors and Electronics. <i>Advanced Electronic Materials</i> , 2016, 2, 1500345.	5.1	43
72	A review of e-textiles in neurological rehabilitation: How close are we?. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2016, 13, 59.	4.6	44
73	Towards the Development of an EIT-based Stretchable Sensor for Multi-Touch Industrial Human-Computer Interaction Systems. <i>Lecture Notes in Computer Science</i> , 2016, , 563-573.	1.3	3
74	Smart Electronic Textiles. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6140-6169.	13.8	460

#	ARTICLE	IF	CITATIONS
75	Flexible Transparent Reduced Graphene Oxide Sensor Coupled with Organic Dye Molecules for Rapid Dual-Mode Ammonia Gas Detection. <i>Advanced Functional Materials</i> , 2016, 26, 4329-4338.	14.9	113
76	Stretchable Fiber-Confined Wetting Conductive Liquids as Wearable Human Health Monitors. <i>Advanced Functional Materials</i> , 2016, 26, 4511-4517.	14.9	79
77	Fabrication of Metal-Polymer Nanocomposites by In-Fiber Instability. <i>Journal of Micro and Nano-Manufacturing</i> , 2016, 4, .	0.7	6
78	Atomic layer deposition on polymer fibers and fabrics for multifunctional and electronic textiles. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2016, 34, .	2.1	64
79	Sensing textile seam-line for wearable multimodal physiological monitoring. , 2016, 2016, 311-314.		12
80	Electrophoretic Deposition of Ni/Au Coated Particles for Ultra-Fine Pitch Interconnection. , 2016, , .		2
81	Integrated humidity and temperature sensing circuit fabricated by inkjet printing technology. , 2016, , .		6
82	Flexible bottom-gate graphene transistors on Parylene C substrate and the effect of current annealing. <i>Applied Physics Letters</i> , 2016, 109, 152105.	3.3	7
83	Fast algorithm for evaluation of critical parameters of smart overalls. , 2016, , .		3
84	Highly Stretchable Non-volatile Nylon Thread Memory. <i>Scientific Reports</i> , 2016, 6, 24406.	3.3	19
85	All laser printed resistive chemical sensor: Fabrication and evaluation. , 2016, , .		5
86	Electrical characteristics and signal transmission characteristics of hybrid structure yarns for smart wearable devices. <i>Fibers and Polymers</i> , 2016, 17, 2055-2061.	2.1	4
87	Stretchable Bioelectronics for Medical Devices and Systems. <i>Microsystems and Nanosystems</i> , 2016, , .	0.1	90
88	Sensor Skins: An Overview. <i>Microsystems and Nanosystems</i> , 2016, , 173-191.	0.1	10
89	Smart Textile Supercapacitors Coated with Conducting Polymers for Energy Storage Applications. , 2016, , 437-477.		5
90	Scalable and Environmentally Benign Process for Smart Textile Nanofinishing. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 14756-14765.	8.0	39
91	Novel printed body worn sensor for measuring the human movement orientation. <i>Sensor Review</i> , 2016, 36, 321-331.	1.8	16
92	The Power of e-Soft™. <i>MRS Advances</i> , 2016, 1, 69-80.	0.9	0

#	ARTICLE	IF	CITATIONS
93	Preparation of MWCNTs/CuPc/Ag modified conductive polyester fiber with chemical liquid deposition. Journal of Materials Science: Materials in Electronics, 2016, 27, 1416-1420.	2.2	3
94	Printing of CNT/silicone rubber for a wearable flexible stretch sensor. Proceedings of SPIE, 2016, , .	0.8	1
95	Wearable Chemical Sensors: Present Challenges and Future Prospects. ACS Sensors, 2016, 1, 464-482.	7.8	596
96	Manufacturing techniques and property evaluations of conductive composite yarns coated with polypropylene and multi-walled carbon nanotubes. Composites Part A: Applied Science and Manufacturing, 2016, 84, 354-363.	7.6	25
97	Fully screen printed LRC resonant circuit. Microelectronic Engineering, 2016, 162, 6-11.	2.4	11
98	Ionic liquid-enhanced soft resistive switching devices. RSC Advances, 2016, 6, 94128-94138.	3.6	31
99	Variable temperature performance of a fully screen printed transistor switch. Solid-State Electronics, 2016, 126, 59-66.	1.4	1
100	Mechanical and Electrical Contacting of Electronic Components on Textiles by 3D Printing. Procedia Technology, 2016, 26, 66-71.	1.1	37
101	Silver nanowire decorated heatable textiles. Nanotechnology, 2016, 27, 435201.	2.6	57
102	Chemical Oxidative Polymerization of Polyaniline: A Practical Approach for Preparation of Smart Conductive Textiles. Journal of Chemical Education, 2016, 93, 1606-1611.	2.3	90
103	Conductive reduced graphene oxide/MnO ₂ carbonized cotton fabrics with enhanced electro-chemical, -heating, and -mechanical properties. Journal of Power Sources, 2016, 326, 428-437.	7.8	35
104	Wearable Textile-Based In-Plane Microsupercapacitors. Advanced Energy Materials, 2016, 6, 1601254.	19.5	201
105	High-performance flexible ZnO nanorod UV photodetectors with a network-structured Cu nanowire electrode. Nanoscale, 2016, 8, 16677-16683.	5.6	52
106	Testing and evaluation of wearable electronic textiles and assessment thereof. , 2016, , 65-101.		8
107	Robust and stretchable indium gallium zinc oxide-based electronic textiles formed by cilia-assisted transfer printing. Nature Communications, 2016, 7, 11477.	12.8	73
108	PEDOT:PSS "Wires" Printed on Textile for Wearable Electronics. ACS Applied Materials & Interfaces, 2016, 8, 26998-27005.	8.0	117
109	Wearable fiber-shaped energy conversion and storage devices based on aligned carbon nanotubes. Nano Today, 2016, 11, 644-660.	11.9	113
110	Flexible and Stretchable Oxide Electronics. Advanced Electronic Materials, 2016, 2, 1600105.	5.1	42

#	ARTICLE	IF	CITATIONS
111	Flexible Textile Strain Wireless Sensor Functionalized with Hybrid Carbon Nanomaterials Supported ZnO Nanowires with Controlled Aspect Ratio. <i>Advanced Functional Materials</i> , 2016, 26, 6206-6214.	14.9	132
112	First Fiber-Shaped Non-Volatile Memory Device Based on Hybrid Organic-Inorganic Perovskite. <i>Advanced Electronic Materials</i> , 2016, 2, 1600160.	5.1	59
113	Wearable Power-Textiles by Integrating Fabric Triboelectric Nanogenerators and Fiber-Shaped Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2016, 6, 1601048.	19.5	266
114	Performance improvement of organic thin film transistors with carbon nanotube/metal hybrid electrodes for S/D contacts. <i>Organic Electronics</i> , 2016, 36, 153-159.	2.6	5
115	High-performance flexible energy storage and harvesting system for wearable electronics. <i>Scientific Reports</i> , 2016, 6, 26122.	3.3	182
116	Gesture based IoT light control for smart clothing. , 2016, , .		10
117	Electrochromic/supercapacitive dual functional fibres. <i>RSC Advances</i> , 2016, 6, 110164-110170.	3.6	32
118	Activated Carbon Textile Chemistry of Metal Extraction for Supercapacitors. <i>ACS Nano</i> , 2016, 10, 11351-11359.	14.6	89
119	Graphene screen-printed radio-frequency identification devices on flexible substrates. <i>Physica Status Solidi - Rapid Research Letters</i> , 2016, 10, 812-818.	2.4	44
120	Smart electroconductive textile by catalytic deposition of carbon nanotubes onto glass cloth. <i>International Journal of Self-Propagating High-Temperature Synthesis</i> , 2016, 25, 173-176.	0.5	5
121	Indoor light recycling: a new home for organic photovoltaics. <i>Journal of Materials Chemistry C</i> , 2016, 4, 10367-10370.	5.5	174
122	Recent researches concerning the obtaining of functional textiles based on conductive yarns. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016, 145, 032005.	0.6	5
123	CdS-Nanowires Flexible Photo-detector with Ag-Nanowires Electrode Based on Non-transfer Process. <i>Scientific Reports</i> , 2016, 6, 21551.	3.3	66
124	Printed air cathode for flexible and high energy density zinc-air battery. <i>MRS Advances</i> , 2016, 1, 3585-3591.	0.9	3
125	Design of Strain-Limiting Substrate Materials for Stretchable and Flexible Electronics. <i>Advanced Functional Materials</i> , 2016, 26, 5345-5351.	14.9	92
126	Wearable Biofuel Cells: A Review. <i>Electroanalysis</i> , 2016, 28, 1188-1200.	2.9	149
127	Metal oxide nanowire chemical sensors: innovation and quality of life. <i>Materials Today</i> , 2016, 19, 559-567.	14.2	136
128	Electroactive polymers for sensing. <i>Interface Focus</i> , 2016, 6, 20160026.	3.0	158

#	ARTICLE	IF	CITATIONS
129	Toward Graphene-Based Passive UHF RFID Textile Tags: A Reliability Study. IEEE Transactions on Device and Materials Reliability, 2016, 16, 429-431.	2.0	33
130	Capacitive wearable tactile sensor based on smart textile substrate with carbon black/silicone rubber composite dielectric. Measurement Science and Technology, 2016, 27, 045105.	2.6	114
131	Highly Sensitive, Flexible, and Wearable Pressure Sensor Based on a Giant Piezocapacitive Effect of Three-Dimensional Microporous Elastomeric Dielectric Layer. ACS Applied Materials & Interfaces, 2016, 8, 16922-16931.	8.0	404
132	Wearable Electricity Generators Fabricated Utilizing Transparent Electronic Textiles Based on Polyester/Ag Nanowires/Graphene Core/Shell Nanocomposites. ACS Nano, 2016, 10, 6449-6457.	14.6	202
133	Wearable Potentiometric Sensors Based on Commercial Carbon Fibres for Monitoring Sodium in Sweat. Electroanalysis, 2016, 28, 1267-1275.	2.9	90
134	A light-emission textile device: conformal spray-sintering of a woven fabric electrode. Flexible and Printed Electronics, 2016, 1, 025004.	2.7	42
135	Fine-pitch surface component mounting on screen-printed fabric circuits. Electronics Letters, 2016, 52, 1032-1034.	1.0	6
136	Smarte elektronische Textilien. Angewandte Chemie, 2016, 128, 6248-6277.	2.0	11
137	AMOLED panel driven by OTFTs on polyethylene fabric substrate. Organic Electronics, 2016, 30, 45-51.	2.6	22
138	Deposition, patterning, and utility of conductive materials for the rapid prototyping of chemical and bioanalytical devices. Analyst, The, 2016, 141, 3511-3525.	3.5	15
139	Calligraphic ink enabling washable conductive textile electrodes for supercapacitors. Journal of Materials Chemistry A, 2016, 4, 4082-4088.	10.3	33
140	Dye aggregation in layer-by-layer dyeing of cotton fabrics. RSC Advances, 2016, 6, 20286-20293.	3.6	11
141	One-dimensional InGaZnO field-effect transistor on a polyimide wire substrate for an electronic textile. Journal of the Korean Physical Society, 2016, 68, 599-603.	0.7	9
142	Wearable Inkjet-Printed Wideband Antenna by Using Miniaturized AMC for Sub-GHz Applications. IEEE Antennas and Wireless Propagation Letters, 2016, 15, 1927-1930.	4.0	44
143	Textile energy storage: Structural design concepts, material selection and future perspectives. Energy Storage Materials, 2016, 3, 123-139.	18.0	128
144	Fully spray-coated organic solar cells on woven polyester cotton fabrics for wearable energy harvesting applications. Journal of Materials Chemistry A, 2016, 4, 5561-5568.	10.3	57
145	Improved continuity of reduced graphene oxide on polyester fabric by use of polypyrrole to achieve a highly electro-conductive and flexible substrate. Applied Surface Science, 2016, 363, 264-272.	6.1	55
146	Fully Textile, PEDOT:PSS Based Electrodes for Wearable ECG Monitoring Systems. IEEE Transactions on Biomedical Engineering, 2016, 63, 540-549.	4.2	149

#	ARTICLE	IF	CITATIONS
147	Organic Phototransistors With All-Polymer Bulk Heterojunction Layers of p-Type and n-Type Sulfur-Containing Conjugated Polymers. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 147-153.	2.9	25
148	Simulation of conductivity made by inkjet-printed silver tracks in E-textiles with different weave patterns. Journal of Industrial Textiles, 2017, 47, 173-196.	2.4	5
149	Overview of wearable electronics and smart textiles. Journal of the Textile Institute, 2017, 108, 631-652.	1.9	122
150	A critical review on compression textiles for compression therapy: Textile-based compression interventions for chronic venous insufficiency. Textile Research Journal, 2017, 87, 1121-1141.	2.2	54
151	One-step electrochemically expanded graphite foil for flexible all-solid supercapacitor with high rate performance. Electrochimica Acta, 2017, 228, 553-561.	5.2	48
152	Highly flexible inverted-quantum-dot light-emitting diodes on elastic polyurethane substrates. Journal of Materials Chemistry C, 2017, 5, 1596-1600.	5.5	17
153	A Review of Flexible OLEDs Toward Highly Durable Unusual Displays. IEEE Transactions on Electron Devices, 2017, 64, 1922-1931.	3.0	185
154	Highly Sensitive Wearable Textile-Based Humidity Sensor Made of High-Strength, Single-Walled Carbon Nanotube/Poly(vinyl alcohol) Filaments. ACS Applied Materials & Interfaces, 2017, 9, 4788-4797.	8.0	201
155	Helical Microfilaments with Alternating Imprinted Intrinsic Curvatures. Macromolecular Rapid Communications, 2017, 38, 1600700.	3.9	8
156	Growth of a Large-Area, Free-Standing, Highly Conductive and Fully Foldable Silver Film with Inverted Pyramids for Wearable Electronics Applications. ACS Applied Materials & Interfaces, 2017, 9, 5312-5318.	8.0	2
157	Copper circuit patterning on polymer using selective surface modification and electroless plating. Applied Surface Science, 2017, 396, 1678-1684.	6.1	29
158	Biosynthesis of Gold Nanoparticles and Gold/Prodigiosin Nanoparticles with Serratia marcescens Bacteria. Waste and Biomass Valorization, 2017, 8, 2045-2059.	3.4	27
159	A Review on Electromechanical Devices Fabricated by Additive Manufacturing. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2017, 139, .	2.2	33
160	Development of flexible sensors using knit fabrics with conductive polyaniline coating and graphite electrodes. Journal of Applied Polymer Science, 2017, 134, .	2.6	12
161	Printable and Flexible Phototransistors Based on Blend of Organic Semiconductor and Biopolymer. Advanced Functional Materials, 2017, 27, 1604163.	14.9	72
162	Investigation on functionalization of cotton and viscose fabrics with AgNWs. Cellulose, 2017, 24, 409-422.	4.9	37
163	Hydrothermal assembly of micro-nano-integrated core-sheath carbon fibers for high-performance all-carbon micro-supercapacitors. Energy Storage Materials, 2017, 9, 221-228.	18.0	34
164	Macro-structured carbon clusters for developing waterproof, breathable conductive cotton fabric. Carbon, 2017, 116, 1-14.	10.3	28

#	ARTICLE	IF	CITATIONS
165	Advanced Materials for Use in Soft Self-Healing Devices. Advanced Materials, 2017, 29, 1604973.	21.0	362
166	Mathematical model of conductive fabric-based flexible pressure sensor. Applied Mathematical Modelling, 2017, 48, 775-786.	4.2	4
167	Sensors Based on Conducting Polymers for Measurement of Physiological Parameters. IEEE Sensors Journal, 2017, 17, 2492-2497.	4.7	11
168	WORM and bipolar inkjet printed resistive switching devices based on silver nanocomposites. Flexible and Printed Electronics, 2017, 2, 024002.	2.7	24
169	Machine-Washable PEDOT:PSS Dyed Silk Yarns for Electronic Textiles. ACS Applied Materials & Interfaces, 2017, 9, 9045-9050.	8.0	183
170	Asymmetric Supercapacitor Electrodes and Devices. Advanced Materials, 2017, 29, 1605336.	21.0	1,021
171	Inkjet printing wearable electronic devices. Journal of Materials Chemistry C, 2017, 5, 2971-2993.	5.5	415
172	Nylon-Graphene Composite Nonwovens as Monolithic Conductive or Capacitive Fabrics. ACS Applied Materials & Interfaces, 2017, 9, 8308-8316.	8.0	41
173	Flexible Thermoelectric ZnO-Organic Superlattices on Cotton Textile Substrates by ALD/MLD. Advanced Electronic Materials, 2017, 3, 1600459.	5.1	48
174	Fluid-Induced Alignment of Carbon Nanofibers in Polymer Fibers. Macromolecular Materials and Engineering, 2017, 302, 1600544.	3.6	9
175	Continuous body temperature monitoring system based on a flexible PPy/PLA wristband. IFMBE Proceedings, 2017, , 110-113.	0.3	1
176	Electromechanical properties of a yarn strain sensor with graphene-sheath/polyurethane-core. Carbon, 2017, 118, 686-698.	10.3	113
177	Healable Cotton-Graphene Nanocomposite Conductor for Wearable Electronics. ACS Applied Materials & Interfaces, 2017, 9, 13825-13830.	8.0	81
178	Design and application of J-shaped stress-strain behavior in stretchable electronics: a review. Lab on A Chip, 2017, 17, 1689-1704.	6.0	140
179	Topology Analysis of Wireless Power Transfer Systems Manufactured Via Inkjet Printing Technology. IEEE Transactions on Industrial Electronics, 2017, 64, 7749-7757.	7.9	16
180	Approaches to energy harvesting and energy scavenging for energy autonomous sensors and microinstruments. Proceedings of SPIE, 2017, , .	0.8	6
181	Magnetic/conductive composite fibre: A multifunctional strain sensor with magnetically driven property. Composites Part A: Applied Science and Manufacturing, 2017, 100, 97-105.	7.6	36
182	Microstructured monofilament via thermal drawing of additively manufactured preforms. Additive Manufacturing, 2017, 16, 12-23.	3.0	21

#	ARTICLE	IF	CITATIONS
183	Rugged Textile Electrodes for Wearable Devices Obtained by Vapor Coating Off-the-Shelf, Plain-Woven Fabrics. <i>Advanced Functional Materials</i> , 2017, 27, 1700415.	14.9	76
184	Flexible Device Applications of 2D Semiconductors. <i>Small</i> , 2017, 13, 1603994.	10.0	167
185	Stretchable Thermoelectric Generators Metallized with Liquid Alloy. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 15791-15797.	8.0	72
186	High-Power Graphene-Carbon Nanotube Hybrid Supercapacitors. <i>ChemNanoMat</i> , 2017, 3, 436-446.	2.8	39
187	Cellulose Nanofibril-Based Coatings of Woven Cotton Fabrics for Improved Inkjet Printing with a Potential in E-Textile Manufacturing. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 4793-4801.	6.7	73
188	High Sensitivity ZnO Nanorod-Based Flexible Photodetectors Enhanced by CdSe/ZnS Core-Shell Quantum Dots. <i>IEEE Sensors Journal</i> , 2017, 17, 3710-3713.	4.7	7
189	Pyroprotein-Based Electronic Textiles with High Stability. <i>Advanced Materials</i> , 2017, 29, 1605479.	21.0	42
190	Stability test of the silicon Fiber Bragg Grating embroidered on textile for joint angle measurement. , 2017, , .		5
191	Wearable Flexible Sensors: A Review. <i>IEEE Sensors Journal</i> , 2017, 17, 3949-3960.	4.7	379
192	Resistive behavior of Ni thin film on a cylindrical PET monofilament with temperature for wearable computing devices. <i>Sensors and Actuators A: Physical</i> , 2017, 259, 96-104.	4.1	10
193	Smart Fluid Systems: The Advent of Autonomous Liquid Robotics. <i>Advanced Science</i> , 2017, 4, 1700036.	11.2	80
194	Structural and morphological characterizations of MWCNTs hybrid coating onto cotton fabric as potential humidity and temperature wearable sensor. <i>Sensors and Actuators B: Chemical</i> , 2017, 252, 428-439.	7.8	69
195	Effect of assembly pressure on the performance of a bendable polymer electrolyte fuel cell based on a silver nanowire current collector. <i>Energy</i> , 2017, 134, 412-419.	8.8	32
196	2D all-solid state fabric supercapacitor fabricated via an all solution process for use in smart textiles. <i>Applied Physics Letters</i> , 2017, 110, 203902.	3.3	12
197	Review of Flexible Temperature Sensing Networks for Wearable Physiological Monitoring. <i>Advanced Healthcare Materials</i> , 2017, 6, 1601371.	7.6	217
198	Conformable and ionic textiles using sheath-core carbon nanotube microyarns for highly sensitive and reliable pressure sensors. <i>RSC Advances</i> , 2017, 7, 23820-23826.	3.6	29
199	Graphene nanopetal wire supercapacitors with high energy density and thermal durability. <i>Nano Energy</i> , 2017, 38, 127-136.	16.0	58
200	Stretchable Electronic Platform for Soft and Smart Contact Lens Applications. <i>Advanced Materials Technologies</i> , 2017, 2, 1700073.	5.8	50

#	ARTICLE	IF	CITATIONS
201	Band structure engineering strategies of metal oxide semiconductor nanowires and related nanostructures: A review. Semiconductor Science and Technology, 2017, 32, 073001.	2.0	18
202	IoT & wearable electronics revolutionize electronics manufacturing paradigms. , 2017, , .		0
204	Flexible and conductive nanofiber-structured single yarn sensor for smart wearable devices. Sensors and Actuators B: Chemical, 2017, 252, 697-705.	7.8	104
205	PRAP-CVD: how to design high conformal PEDOT surfaces. RSC Advances, 2017, 7, 19117-19123.	3.6	6
206	Glycerol/PEDOT:PSS coated woven fabric as a flexible heating element on textiles. Journal of Materials Chemistry C, 2017, 5, 3807-3822.	5.5	59
207	Effect of the surface curvature and volume fraction of AuPs on the AuP-matrix interface. Computational Materials Science, 2017, 134, 58-66.	3.0	6
208	Advanced Materials for Health Monitoring with Skin-Based Wearable Devices. Advanced Healthcare Materials, 2017, 6, 1700024.	7.6	221
209	Enhancing the Performance of Stretchable Conductors for E-Textiles by Controlled Ink Permeation. Advanced Materials, 2017, 29, 1605848.	21.0	223
210	Determinants of electrical resistance change of in situ PPy-polymerized stretch plain woven fabric under uniaxial tensile strain. Journal of the Textile Institute, 2017, 108, 1545-1551.	1.9	11
211	Advanced Biowaste-Based Flexible Photocatalytic Fuel Cell as a Green Wearable Power Generator. Advanced Materials Technologies, 2017, 2, 1600191.	5.8	22
212	Electro-conductive cotton fabric prepared by electron beam induced graft polymerization and electroless deposition technology. Journal of Applied Polymer Science, 2017, 134, .	2.6	8
213	Highly Stretchable Graphene Fibers with Ultrafast Electrothermal Response for Low-Voltage Wearable Heaters. Advanced Electronic Materials, 2017, 3, 1600425.	5.1	128
214	The Internet-of-Things: Review and research directions. International Journal of Research in Marketing, 2017, 34, 3-21.	4.2	423
215	Fully inkjet-printed two-dimensional material field-effect heterojunctions for wearable and textile electronics. Nature Communications, 2017, 8, 1202.	12.8	324
216	Self-Assembly of Block Copolymers in Ionic Liquids. ACS Symposium Series, 2017, , 83-142.	0.5	5
217	Pencil-drawn Paper-based Non-invasive and Wearable Capacitive Respiration Sensor. Electroanalysis, 2017, 29, 2680-2684.	2.9	45
218	Flexible and Highly Sensitive Pressure Sensor Based on Microdome-Patterned PDMS Forming with Assistance of Colloid Self-Assembly and Replica Technique for Wearable Electronics. ACS Applied Materials & Interfaces, 2017, 9, 35968-35976.	8.0	200
219	A Healthcare Wearable for Chronic Pain Management. Design of a Smart Glove for Rheumatoid Arthritis. Design Journal, 2017, 20, S1978-S1988.	0.8	10

#	ARTICLE	IF	CITATIONS
220	Flexible transparent high-voltage diodes for energy management in wearable electronics. Nano Energy, 2017, 40, 289-299.	16.0	41
221	Conformal Electronics Wrapped Around Daily Life Objects Using an Original Method: Water Transfer Printing. ACS Applied Materials & Interfaces, 2017, 9, 29424-29429.	8.0	51
222	Strain-responsive mercerized conductive cotton fabrics based on PEDOT:PSS/graphene. Materials and Design, 2017, 135, 213-222.	7.0	106
223	Inkjet Printing: A New Fabrication Technology for Organic Transistors. Advanced Materials Technologies, 2017, 2, 1700063.	5.8	106
224	Development and characterization of a multilayer matrix textile sensor for interface pressure measurements. Smart Materials and Structures, 2017, 26, 104011.	3.5	24
225	Highly conductive and environmentally stable gold/graphene yarns for flexible and wearable electronics. Nanoscale, 2017, 9, 11439-11445.	5.6	39
226	Inductive proximity sensors network in intelligent clothes. , 2017, , .		3
227	Fabrication and characterization of screen printed stretchable carbon interconnects. , 2017, , .		3
228	Fire-resistant and highly electrically conductive silk fabrics fabricated with reduced graphene oxide via dry-coating. Materials and Design, 2017, 133, 528-535.	7.0	46
229	Investigations of carbon nanotubes and polyacrylonitrile composites for flexible textronics. , 2017, , .		1
230	Wearable technology: role in respiratory health and disease. Breathe, 2017, 13, e27-e36.	1.3	179
231	Scalable and Facile Preparation of Highly Stretchable Electrospun PEDOT:PSS@PU Fibrous Nonwovens toward Wearable Conductive Textile Applications. ACS Applied Materials & Interfaces, 2017, 9, 30014-30023.	8.0	107
232	Stretchable Electrode Composed of Carbon Nanotube-SBS Hybrid Film and Its Application on Biosensor. Journal of the Electrochemical Society, 2017, 164, H1028-H1032.	2.9	10
233	An overview of electrospun nanofibers and their application in energy storage, sensors and wearable/flexible electronics. Journal of Materials Chemistry C, 2017, 5, 12657-12673.	5.5	141
234	Development of a computer-aided design software for smart garments. International Journal of Clothing Science and Technology, 2017, 29, 845-856.	1.1	7
236	Alignment of Multiple Electrospun Piezoelectric Fiber Bundles Across Serrated Gaps at an Incline: A Method to Generate Textile Strain Sensors. Scientific Reports, 2017, 7, 15436.	3.3	17
237	Muscle activity monitoring with fabric stretch sensors. Fibers and Polymers, 2017, 18, 1931-1937.	2.1	5
238	Interconnects on elastomers: optimizing for stretchability, speed and layout area. Flexible and Printed Electronics, 2017, 2, 045007.	2.7	6

#	ARTICLE	IF	CITATIONS
239	Selective metallic coating of 3D-printed microstructures on flexible substrates. RSC Advances, 2017, 7, 51663-51669.	3.6	13
240	Nanofibrous Smart Fabrics from Twisted Yarns of Electrospun Piezopolymer. ACS Applied Materials & Interfaces, 2017, 9, 24220-24229.	8.0	81
241	Eu ³⁺ -doped polystyrene and polyvinylidene fluoride nanofibers made by electrospinning for photoluminescent fabric designing. Luminescence, 2017, 32, 1535-1540.	2.9	23
242	Highly flexible fabric strain sensor based on graphene nanoplatelet/polyaniline nanocomposites for human gesture recognition. Journal of Applied Polymer Science, 2017, 134, 45340.	2.6	75
243	Flexible, transferable and conformal egg albumen based resistive switching memory devices. RSC Advances, 2017, 7, 32114-32119.	3.6	51
244	Respiratory and cardiac rates monitoring during MR examination by a sensorized smart textile. , 2017, , .		14
245	Dual band RF energy harvester for wearable electronic technology. , 2017, , .		10
246	Nanostructural Tailoring to Induce Flexibility in Thermoelectric Ca ₃ Co ₄ O ₉ Thin Films. ACS Applied Materials & Interfaces, 2017, 9, 25308-25316.	8.0	70
247	Design of electrically conductive superhydrophobic antibacterial cotton fabric through hierarchical architecture using bimetallic deposition. Journal of Alloys and Compounds, 2017, 724, 240-248.	5.5	27
248	Investigating the shape memory properties of 4D printed polylactic acid (PLA) and the concept of 4D printing onto nylon fabrics for the creation of smart textiles. Virtual and Physical Prototyping, 2017, 12, 290-300.	10.4	112
249	All-SPEEK flexible supercapacitor exploiting laser-induced graphenization. 2D Materials, 2017, 4, 035012.	4.4	92
250	Graphene-Fiber-Based Supercapacitors Favor N-Methyl-2-pyrrolidone/Ethyl Acetate as the Spinning Solvent/Coagulant Combination. ACS Applied Materials & Interfaces, 2017, 9, 24568-24576.	8.0	41
251	Indicator washcloth for detecting alkaline washing solutions to prevent dermatitis patients and babies from skin irritation. Fashion and Textiles, 2017, 4, .	2.4	12
252	Respiratory Rate Estimation by Using ECG, Impedance, and Motion Sensing in Smart Clothing. Journal of Medical and Biological Engineering, 2017, 37, 826-842.	1.8	54
254	Single-Thread-Based Wearable and Highly Stretchable Triboelectric Nanogenerators and Their Applications in Cloth-Based Self-Powered Human-Interactive and Biomedical Sensing. Advanced Functional Materials, 2017, 27, 1604462.	14.9	327
255	Piezoelectric Nylon-11 Nanowire Arrays Grown by Template Wetting for Vibrational Energy Harvesting Applications. Advanced Functional Materials, 2017, 27, 1604262.	14.9	91
256	Materials and Device Designs for an Epidermal UV Colorimetric Dosimeter with Near Field Communication Capabilities. Advanced Functional Materials, 2017, 27, 1604465.	14.9	135
257	A novel method for fabricating elastic conductive polyurethane filaments by in-situ reduction of polydopamine and electroless silver plating. Materials and Design, 2017, 113, 254-263.	7.0	38

#	ARTICLE	IF	CITATIONS
258	Smart Clothes for Rehabilitation Context: Technical and Technological Issues. Smart Sensors, Measurement and Instrumentation, 2017, , 185-219.	0.6	6
259	Enzymatic sensing with laccase-functionalized textile organic biosensors. Organic Electronics, 2017, 40, 51-57.	2.6	49
260	Flexible and Stretchable Energy Storage: Recent Advances and Future Perspectives. Advanced Materials, 2017, 29, 1603436.	21.0	872
261	Towards a conceptual framework of OSH risk management in smart working environments based on smart PPE, ambient intelligence and the Internet of Things technologies. International Journal of Occupational Safety and Ergonomics, 2017, 23, 1-20.	1.9	89
262	Soft Robotics: Trends, Applications and Challenges. Biosystems and Biorobotics, 2017, , .	0.3	22
263	Soft Robotics Mechanosensing. Biosystems and Biorobotics, 2017, , 11-21.	0.3	9
264	Development of conductive gloves for touchscreen devices. International Journal of Fashion Design, Technology and Education, 2017, 10, 71-80.	1.6	4
265	Smart textile: Exploration of wireless sensing capabilities. , 2017, , .		3
266	Wearable and autonomous computing for future smart cities: Open challenges. , 2017, , .		19
267	Fabrication of highly conductive fibers by metal ion-exchange using a simply modified wet-spinning process. Macromolecular Research, 2017, 25, 1230-1236.	2.4	11
268	Warp-Knitted Textile as a Strain Sensor: Characterization Procedure and Application in a Comfortable Wearable Goniometer. IEEE Sensors Journal, 2017, 17, 5927-5936.	4.7	25
269	Design and fabrication of an E-shaped wearable textile antenna on PVB-coated hydrophobic polyester fabric. Smart Materials and Structures, 2017, 26, 105011.	3.5	37
270	Design of an Electronic Chest-Band. IOP Conference Series: Materials Science and Engineering, 2017, 254, 072002.	0.6	5
271	Performance Evaluation of Strain Gauge Printed Using Automatic Fluid Dispensing System on Conformal Substrates. IOP Conference Series: Materials Science and Engineering, 2017, 226, 012019.	0.6	2
272	Development Of Test Rig System For Calibration Of Temperature Sensing Fabric. Autex Research Journal, 2017, 17, 219-228.	1.1	1
273	Graphene nanoplatelets-based smart textile for kinesthetic monitoring. , 2017, , .		3
274	Highly sensitive flexible pressure sensor based on microstructured PDMS for wearable electronics application. , 2017, , .		2
275	Smart Conductive Cotton Fabric by Macro-Structured Carbon Clusters for Electromagnetic Interference Shielding. Procedia Engineering, 2017, 216, 127-134.	1.2	0

#	ARTICLE	IF	CITATIONS
276	Review of Recent Inkjet-Printed Capacitive Tactile Sensors. <i>Sensors</i> , 2017, 17, 2593.	3.8	77
277	How to Make Reliable, Washable, and Wearable Textronic Devices. <i>Sensors</i> , 2017, 17, 673.	3.8	94
278	Intelligent Medical Garments with Graphene-Functionalized Smart-Cloth ECG Sensors. <i>Sensors</i> , 2017, 17, 875.	3.8	120
279	Electrospun Ceramic Nanofiber Mats Today: Synthesis, Properties, and Applications. <i>Materials</i> , 2017, 10, 1238.	2.9	131
280	Transparent Ferroelectric Capacitors on Glass. <i>Micromachines</i> , 2017, 8, 313.	2.9	11
281	Helix Electrohydrodynamic Printing of Highly Aligned Serpentine Micro/Nanofibers. <i>Polymers</i> , 2017, 9, 434.	4.5	37
282	Trunk Motion System (TMS) Using Printed Body Worn Sensor (BWS) via Data Fusion Approach. <i>Sensors</i> , 2017, 17, 112.	3.8	33
283	Characterization of Textile-Insulated Capacitive Biosensors. <i>Sensors</i> , 2017, 17, 574.	3.8	34
284	A Framework for Learning Analytics Using Commodity Wearable Devices. <i>Sensors</i> , 2017, 17, 1382.	3.8	33
285	Development of a Textile Nanocomposite as Naked Eye Indicator of the Exposition to Strong Acids. <i>Sensors</i> , 2017, 17, 2134.	3.8	9
286	Soft Smart Garments for Lower Limb Joint Position Analysis. <i>Sensors</i> , 2017, 17, 2314.	3.8	75
287	3D-Printed Graphene Antennas and Interconnections for Textile RFID Tags: Fabrication and Reliability towards Humidity. <i>International Journal of Antennas and Propagation</i> , 2017, 2017, 1-5.	1.2	16
288	Fabrication of Photovoltaic Textiles. <i>Coatings</i> , 2017, 7, 63.	2.6	34
289	Coupling Resistive Switching Devices with Neurons: State of the Art and Perspectives. <i>Frontiers in Neuroscience</i> , 2017, 11, 70.	2.8	46
290	Logo based dipole antenna for RFID applications. , 2017, , .		7
291	A review on applied machine learning in wearable technology and its applications. , 2017, , .		17
292	Interactive Smart Fashion Using User-Oriented Visible Light Communication: The Case of Modular Strapped Cuffs and Zipper Slider Types. <i>Wireless Communications and Mobile Computing</i> , 2017, 2017, 1-13.	1.2	6
293	The Cross-section of a Multi-disciplinary Project in View of Smart Textile Design Practice. <i>Journal of Textile Design Research and Practice</i> , 2017, 5, 175-207.	0.4	5

#	ARTICLE	IF	CITATIONS
294	The effects of encapsulation on fatigue lifetime of stretchable interconnects under uniaxial cyclic tensile loading by finite element methods. , 2017, , .		0
295	Frequency-division-multiplexed signal and power transfer for wearable devices networked via conductive embroideries on a cloth. , 2017, , .		16
296	New Textile Sensors for In Situ Structural Health Monitoring of Textile Reinforced Thermoplastic Composites Based on the Conductive Poly(3,4-ethylenedioxythiophene)-poly(styrenesulfonate) Polymer Complex. Sensors, 2017, 17, 2297.	3.8	27
297	Inspection and Reconstruction of Metal-Roof Deformation under Wind Pressure Based on Bend Sensors. Sensors, 2017, 17, 1054.	3.8	5
298	Applications of polymer-optical fibres in sensor technology, lighting and further applications. , 2017, , 311-335.		6
299	Hierarchical Fabric Decorated with Carbon Nanowire/Metal Oxide Nanocomposites for 1.6 V Wearable Aqueous Supercapacitors. Advanced Energy Materials, 2018, 8, 1703454.	19.5	135
300	Electronic Circuits Integration in Textiles for Data Processing in Wearable Technologies. Advanced Materials Technologies, 2018, 3, 1700320.	5.8	57
301	A carbon science perspective in 2018: Current achievements and future challenges. Carbon, 2018, 132, 785-801.	10.3	80
305	A novel evaluation strategy for fatigue reliability of flexible nanoscale films. Materials Research Express, 2018, 5, 035012.	1.6	18
306	Wearable and Implantable Sensors for Biomedical Applications. Annual Review of Analytical Chemistry, 2018, 11, 127-146.	5.4	211
307	Melding Vapor-Phase Organic Chemistry and Textile Manufacturing To Produce Wearable Electronics. Accounts of Chemical Research, 2018, 51, 850-859.	15.6	65
308	Multifunctional cellulose-paper for light harvesting and smart sensing applications. Journal of Materials Chemistry C, 2018, 6, 3143-3181.	5.5	147
309	Fabrication of Flexible, Fully Organic, Degradable Energy Storage Devices Using Silk Proteins. ACS Applied Materials & Interfaces, 2018, 10, 9620-9628.	8.0	61
310	Materials and Wearable Devices for Autonomous Monitoring of Physiological Markers. Advanced Materials, 2018, 30, e1705024.	21.0	145
311	In situ synthesis and modification of cotton fibers with bismuthoxychloride and titanium dioxide nanoparticles for photocatalytic applications. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 357, 201-212.	3.9	17
312	Two-Stage Electrical Percolation of Metal Nanoparticle-Polymer Nanocomposites. Journal of Physical Chemistry C, 2018, 122, 8614-8620.	3.1	19
313	Electrical percolation of nanoparticle-polymer composites. Computational Materials Science, 2018, 150, 102-106.	3.0	34
314	Design of a wearable pain management system with embroidered TENS electrodes. International Journal of Clothing Science and Technology, 2018, 30, 38-48.	1.1	16

#	ARTICLE	IF	CITATIONS
315	Wearable Wireless Sensor System With RF Remote Activation for Gas Monitoring Applications. IEEE Sensors Journal, 2018, 18, 2976-2982.	4.7	26
316	Review of Micro Thermoelectric Generator. Journal of Microelectromechanical Systems, 2018, 27, 1-18.	2.5	189
317	Visually Imperceptible Liquidâ€Metal Circuits for Transparent, Stretchable Electronics with Direct Laser Writing. Advanced Materials, 2018, 30, e1706937.	21.0	161
318	Electro-mechanical endurance tests on smart fabrics under controlled axial and friction forces. Procedia Structural Integrity, 2018, 8, 220-226.	0.8	2
319	DVSâ€Crosslinked PEDOT:PSS Freeâ€Standing and Textile Electrodes toward Wearable Health Monitoring. Advanced Materials Technologies, 2018, 3, 1700322.	5.8	76
320	Paper Based, Expanded Graphite/Polypyrrole Nanocomposite Supercapacitors Free from Binders and Current Collectors. Journal of the Electrochemical Society, 2018, 165, A283-A290.	2.9	17
321	Structural and electrical properties of conductive cotton fabrics coated with the composite polyaniline/carbon black. Cellulose, 2018, 25, 2075-2082.	4.9	46
322	Characterization based on the thermal capabilities of metallized fabrics equipped with hybrid conductive yarns for protective clothing. Journal of the Textile Institute, 2018, 109, 1434-1444.	1.9	3
323	Helix Electrohydrodynamic Printing (HE-Printing). , 2018, , 67-88.		0
324	Issues and Challenges Facing Flexible Lithiumâ€Ion Batteries for Practical Application. Small, 2018, 14, e1702989.	10.0	152
325	Experimental investigation of tensile mechanical strain influence on the dark current of organic solar cells. Organic Electronics, 2018, 54, 192-196.	2.6	4
326	Mapping ICS Materials: Interactive, Connected, and Smart Materials. Advances in Intelligent Systems and Computing, 2018, , 739-744.	0.6	12
327	Integration of Solar Cells and Other Electronic Components into Clothes. , 2018, , 229-239.		2
328	Barriers to the Adoption of Wearable Sensors in the Workplace: A Survey of Occupational Safety and Health Professionals. Human Factors, 2018, 60, 351-362.	3.5	118
329	Wearable Supercapacitors Printed on Garments. Advanced Functional Materials, 2018, 28, 1705571.	14.9	62
330	Bluetooth Low Energyâ€Based Washable Wearable Activity Motion and Electrocardiogram Textronic Monitoring and Communicating System. Advanced Materials Technologies, 2018, 3, 1700309.	5.8	41
331	All-Solid Flexible Fiber-Shaped Lithium Ion Batteries. Journal of the Electrochemical Society, 2018, 165, A688-A695.	2.9	15
332	Highly Stretchable, Weavable, and Washable Piezoresistive Microfiber Sensors. ACS Applied Materials & Interfaces, 2018, 10, 12773-12780.	8.0	73

#	ARTICLE	IF	CITATIONS
333	A flexible humidity sensor based on silk fabrics for human respiration monitoring. Journal of Materials Chemistry C, 2018, 6, 4549-4554.	5.5	133
334	Electromagnetically Enhanced Soft and Flexible Bend Sensor: A Quantitative Analysis With Different Cores. IEEE Sensors Journal, 2018, 18, 3580-3589.	4.7	23
335	Durable, Highly Electrically Conductive Cotton Fabrics with Healable Superamphiphobicity. ACS Applied Materials & Interfaces, 2018, 10, 12042-12050.	8.0	101
336	Respiratory trigger signal generation by means of a stretchable sensor array. Sensors and Actuators A: Physical, 2018, 273, 113-120.	4.1	4
337	Wearable strain sensing textile based on one-dimensional stretchable and weavable yarn sensors. Nano Research, 2018, 11, 5799-5811.	10.4	99
338	Fringing field effects in negative capacitance field-effect transistors with a ferroelectric gate insulator. Japanese Journal of Applied Physics, 2018, 57, 04FD07.	1.5	16
339	A Review on Energy Harvesting Using 3D Printed Fabrics for Wearable Electronics. Journal of the Institution of Engineers (India): Series C, 2018, 99, 435-447.	1.2	10
340	A wearable textile antenna for wireless power transfer by magnetic resonance. Textile Research Journal, 2018, 88, 913-921.	2.2	37
341	Conductive polymers for smart textile applications. Journal of Industrial Textiles, 2018, 48, 612-642.	2.4	156
342	Characteristics of polyurethane nanowebs treated with silver nanowire solutions as strain sensors. Textile Research Journal, 2018, 88, 1215-1225.	2.2	23
343	Additive process for patterned metallized conductive tracks on cotton with applications in smart textiles. Journal of the Textile Institute, 2018, 109, 268-277.	1.9	17
344	Ballistic wearable electronic vest design. Journal of Industrial Textiles, 2018, 47, 1769-1790.	2.4	6
345	Accelerated lifetime tests on e-textiles: Design and fabrication of multifunctional test bench. Journal of Industrial Textiles, 2018, 47, 1925-1943.	2.4	9
346	Soft electronics on asymmetrical porous conducting membranes by molecular layer-by-layer assembly. Sensors and Actuators B: Chemical, 2018, 254, 916-925.	7.8	17
347	Single fiber UV detector based on hydrothermally synthesized ZnO nanorods for wearable computing devices. Applied Surface Science, 2018, 428, 233-241.	6.1	29
348	Intelligent clothing: first and second generation clothing with adaptive thermal insulation properties. Textile Research Journal, 2018, 88, 2214-2233.	2.2	6
349	Evaluation of the electrical integrity of E-textiles subjected to environmental conditions. Journal of the Textile Institute, 2018, 109, 393-409.	1.9	2
350	Effects of stitch classes on the electrical properties of conductive threads. Textile Research Journal, 2018, 88, 2454-2463.	2.2	19

#	ARTICLE	IF	CITATIONS
351	Self-powered wire type UV sensor using in-situ radial growth of BaTiO ₃ and TiO ₂ nanostructures on human hair sized single Ti-wire. Chemical Engineering Journal, 2018, 334, 1729-1739.	12.7	24
352	Continuously prepared highly conductive and stretchable SWNT/MWNT synergistically composited electrospun thermoplastic polyurethane yarns for wearable sensing. Journal of Materials Chemistry C, 2018, 6, 2258-2269.	5.5	376
353	Toward Wearable Self-Charging Power Systems: The Integration of Energy Harvesting and Storage Devices. Small, 2018, 14, 1702817.	10.0	274
354	Metallic MXenes: A new family of materials for flexible triboelectric nanogenerators. Nano Energy, 2018, 44, 103-110.	16.0	273
355	All-solid state symmetric supercapacitors based on compressible and flexible free-standing 3D carbon nanotubes (CNTs)/poly(3,4-ethylenedioxythiophene) (PEDOT) sponge electrodes. Journal of Power Sources, 2018, 376, 138-146.	7.8	94
356	Wearable Chemosensors: A Review of Recent Progress. ChemistryOpen, 2018, 7, 118-130.	1.9	40
357	Towards wearable electronic devices: A quasi-solid-state aqueous lithium-ion battery with outstanding stability, flexibility, safety and breathability. Nano Energy, 2018, 44, 164-173.	16.0	228
358	Flexible and Stretchable Biobatteries: Monolithic Integration of Membrane-Free Microbial Fuel Cells in a Single Textile Layer. Advanced Energy Materials, 2018, 8, 1702261.	19.5	64
359	Energy harvesting from a piezoelectric slipper during walking. Journal of Intelligent Material Systems and Structures, 2018, 29, 1456-1463.	2.5	21
360	Preparation and Transmission Characteristics of Hybrid Structure Yarns with Nylon fiber for Smart Wear. Journal of Engineered Fibers and Fabrics, 2018, 13, 155892501801300.	1.0	1
361	Electrical connection issues on wearable electronics. IOP Conference Series: Materials Science and Engineering, 2018, 459, 012017.	0.6	5
362	A Wetness Detection Technique Towards Scalable, Array-Based, Fully-Textile Sensing. , 2018, , .		6
363	Point of Care Sensing Devices: Better Care for Everyone. Sensors, 2018, 18, 4303.	3.8	41
364	Smart Materials for Wearable Healthcare Devices. , 0, , .		4
365	MEMS Capacitive Sensor for Wound Monitoring Applications. IOP Conference Series: Materials Science and Engineering, 0, 417, 012040.	0.6	5
366	An assistive sleeping bag for children with autism spectrum disorder. Fashion and Textiles, 2018, 5, .	2.4	4
367	Highly Flexible Environmentally friendly Printed Supercapacitors. , 2018, , .		3
368	A printed physiological monitoring module in e-textile. , 2018, , .		4

#	ARTICLE	IF	CITATIONS
371	Thermoelectric Textile Materials. , 2018, , .		4
372	Large-Time-Step-Based Ray-Tracing Modeling of Light Delivery in One-Sidedly Cladding-Removed Step-Index Plastic Optical Fiber under Arbitrary Weave Structure. Advances in Materials Science and Engineering, 2018, 2018, 1-12.	1.8	0
373	Optimized Process of Fully Spray-Coated Organic Solar Cells on Woven Polyester Cotton Fabrics. Materials Today: Proceedings, 2018, 5, 13745-13752.	1.8	9
374	Concept Proof of Low-Energy Consumption and Compact Ingestible Thermometer Based on Gastric Acid Power Generation. IEEJ Transactions on Sensors and Micromachines, 2018, 138, 164-169.	0.1	3
376	Seam Strength and Washability of Silver Coated Polyamide Yarns. IOP Conference Series: Materials Science and Engineering, 2018, 460, 012053.	0.6	12
378	Flexible strain sensors fabricated using carbon-based nanomaterials: A review. Current Opinion in Solid State and Materials Science, 2018, 22, 213-228.	11.5	161
379	Photodiodes embedded within electronic textiles. Scientific Reports, 2018, 8, 16205.	3.3	28
380	Comparative Study on Conductive Knitted Fabric Electrodes for Long-Term Electrocardiography Monitoring: Silver-Plated and PEDOT:PSS Coated Fabrics. Sensors, 2018, 18, 3890.	3.8	42
381	Cosmetically Adaptable Transparent Strain Sensor for Sensitively Delineating Patterns in Small Movements of Vital Human Organs. ACS Applied Materials & Interfaces, 2018, 10, 44126-44133.	8.0	23
385	Design and Development of Smart-Jacket for Posture Detection. , 2018, , .		6
386	Human Body Energy Harvesting Solutions for Wearable Technologies. , 2018, , .		7
389	Woven Antennas Fabrication: Conductive Linen and Conductive Cloth Technologies Comparisons. , 2018, , .		1
390	Multi-Functional Soft Strain Sensors for Wearable Physiological Monitoring. Sensors, 2018, 18, 3822.	3.8	42
391	An Overview of Recent Developments in the Field of Wearable smart textiles. Journal of Textile Science & Engineering, 2018, 08, .	0.2	2
392	Wearable Bioelectronics: Enzyme-Based Body-Worn Electronic Devices. Accounts of Chemical Research, 2018, 51, 2820-2828.	15.6	214
393	Magnetic Configurations and State Diagram of Nanoring Magnetic Tunnel Junctions. Physical Review Applied, 2018, 10, .	3.8	7
394	Golfer Body Posture Monitoring Using e-Textile Technology. , 2018, , .		4
395	Wearable Graphene Nanotextile Embedded Smart Armband for Cardiac Monitoring. , 2018, , .		11

#	ARTICLE	IF	CITATIONS
396	Development of Textile-based Pressure Sensor and Its Application. <i>Fibers and Polymers</i> , 2018, 19, 2622-2630.	2.1	13
397	Ultrathin Si/CNTs Paper-Like Composite for Flexible Li-Ion Battery Anode With High Volumetric Capacity. <i>Frontiers in Chemistry</i> , 2018, 6, 624.	3.6	29
398	Capillarity-Driven Self-Assembly of Silver Nanowires-Coated Fibers for Flexible and Stretchable Conductor. <i>Nano</i> , 2018, 13, 1850146.	1.0	4
399	Multifunctional Flax Fibres Based on the Combined Effect of Silver and Zinc Oxide (Ag/ZnO) Nanostructures. <i>Nanomaterials</i> , 2018, 8, 1069.	4.1	67
400	Recent Development of Flexible and Stretchable Antennas for Bio-Integrated Electronics. <i>Sensors</i> , 2018, 18, 4364.	3.8	42
402	Towards The Internet-of-Smart-Clothing: A Review on IoT Wearables and Garments for Creating Intelligent Connected E-Textiles. <i>Electronics (Switzerland)</i> , 2018, 7, 405.	3.1	192
403	A Freestanding Stretchable and Multifunctional Transistor with Intrinsic Self-Healing Properties of all Device Components. <i>Small</i> , 2019, 15, e1803939.	10.0	71
404	Human motion recognition using SWCNT textile sensor and fuzzy inference system based smart wearable. <i>Sensors and Actuators A: Physical</i> , 2018, 283, 263-272.	4.1	14
405	Graphene electronic fibres with touch-sensing and light-emitting functionalities for smart textiles. <i>Npj Flexible Electronics</i> , 2018, 2, .	10.7	62
406	Polymer solar cell textiles with interlaced cathode and anode fibers. <i>Journal of Materials Chemistry A</i> , 2018, 6, 19947-19953.	10.3	62
407	A hierarchical structure of l-cysteine/Ag NPs/hydrogel for conductive cotton fabrics with high stability against mechanical deformation. <i>Cellulose</i> , 2018, 25, 7355-7367.	4.9	20
408	Wearable fiberform hygroelectric generator. <i>Nano Energy</i> , 2018, 53, 698-705.	16.0	80
409	Three-Dimensional Printing of a Complete Lithium Ion Battery with Fused Filament Fabrication. <i>ACS Applied Energy Materials</i> , 0, , .	5.1	44
410	Mental health monitoring with multimodal sensing and machine learning: A survey. <i>Pervasive and Mobile Computing</i> , 2018, 51, 1-26.	3.3	215
411	Tactile Comfort Evaluation of Conductive Knitted Fabric Using KES-FB. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 374, 012056.	0.6	4
412	Human Motion Recognition by Textile Sensors Based on Machine Learning Algorithms. <i>Sensors</i> , 2018, 18, 3109.	3.8	38
413	Solution Processed Organic Solar Cells on Textiles. <i>IEEE Journal of Photovoltaics</i> , 2018, 8, 1710-1715.	2.5	26
414	Fabricating a Continuous Fiber Silver-Zinc Battery with Micro-Sized Diameter. <i>ChemElectroChem</i> , 2018, 5, 3361-3367.	3.4	7

#	ARTICLE	IF	CITATIONS
415	Enhancement in ageing and functional properties of copper-coated fabrics by subsequent electroplating. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	19
416	Recent Progress in Nanostructured Zinc Oxide Grown on Fabric for Wearable Thermoelectric Power Generator with UV Shielding. , 2018, , .		1
418	Polymer film strain gauges for measuring large elongations. IOP Conference Series: Materials Science and Engineering, 2018, 312, 012013.	0.6	7
419	A review on flexible gas sensors: From materials to devices. Sensors and Actuators A: Physical, 2018, 284, 209-231.	4.1	164
420	Letâ€™s Talk about TEXâ€™ Understanding Consumer Preferences for Smart Interactive Textile Products Using a Conjoint Analysis Approach. Sensors, 2018, 18, 3152.	3.8	3
421	Conductive textile as wearable electrode in intrabody communications. Medical Devices & Sensors, 2018, 1, e10016.	2.7	5
422	Introduction to Inorganic Fibers. , 2018, , 1-29.		1
423	Quantification of Textile-Based Stretch Sensors Using Machine Learning: An Exploratory Study. , 2018, , .		3
424	Electronics used in high-performance apparelâ€™Part 1/2. , 2018, , 245-284.		11
425	Tunable Adhesion for Bio-Integrated Devices. Micromachines, 2018, 9, 529.	2.9	15
426	Twoâ€™Layered and Stretchable eâ€™Textile Patches for Wearable Healthcare Electronics. Advanced Healthcare Materials, 2018, 7, e1801033.	7.6	86
427	Wearable Thermoelectric Devices Based on Au-Decorated Two-Dimensional MoS ₂ . ACS Applied Materials & Interfaces, 2018, 10, 33316-33321.	8.0	57
428	Fabrication and characterization of a flexible capacitive sensor on PET fabric. International Journal of Clothing Science and Technology, 2018, 30, 687-697.	1.1	8
429	Rollâ€™toâ€™Roll Dyed Conducting Silk Yarns: A Versatile Material for Eâ€™Textile Devices. Advanced Materials Technologies, 2018, 3, 1800251.	5.8	56
430	Electronic biosensing with flexible organic transistor devices. Flexible and Printed Electronics, 2018, 3, 034003.	2.7	26
431	Design and Electromagnetic Properties of a Conformal Ultra Wideband Antenna Integrated in Three-Dimensional Woven Fabrics. Polymers, 2018, 10, 861.	4.5	8
432	Patchable micro/nanodevices interacting with skin. Biosensors and Bioelectronics, 2018, 122, 189-204.	10.1	47
433	RFID Antennas for Body-Area Applications: From Wearables to Implants. IEEE Antennas and Propagation Magazine, 2018, 60, 14-25.	1.4	64

#	ARTICLE	IF	CITATIONS
434	The effects of temperature and frequency on the conductivity and dielectric properties of cotton fabric impregnated with doped PEDOT:PSS. <i>Cellulose</i> , 2018, 25, 6221-6230.	4.9	14
435	IPMC Sensor Integrated Smart Glove for Pulse Diagnosis, Braille Recognition, and Human-Computer Interaction. <i>Advanced Materials Technologies</i> , 2018, 3, 1800257.	5.8	43
436	Functional fibers for robotic fabrics. <i>Multifunctional Materials</i> , 2018, 1, 012001.	3.7	32
437	Notice of Removal: Research on DC Solid State Power Controller with Arc Detection. , 2018, , .		0
438	In Situ Growth of the Ni ₃ V ₂ O ₈ @PANI Composite Electrode for Flexible and Transparent Symmetric Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 20688-20695.	8.0	83
439	In Situ Assembly of Well-Dispersed Ag Nanoparticles throughout Electrospun Alginate Nanofibers for Monitoring Human Breath-Smart Fabrics. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 19863-19870.	8.0	75
440	Power Generation for Wearable Electronics: Designing Electrochemical Storage on Fabrics. <i>IEEE Access</i> , 2018, 6, 28945-28950.	4.2	7
441	Cellulose Mineralization as a Route for Novel Functional Materials. <i>Advanced Functional Materials</i> , 2018, 28, 1705042.	14.9	50
442	Organic Conductive Fibers as Nonmetallic Electrodes and Neural Interconnects. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 7866-7871.	3.7	12
443	Wearable and flexible sensors for user-interactive health-monitoring devices. <i>Journal of Materials Chemistry B</i> , 2018, 6, 4043-4064.	5.8	255
444	Self-Assembled Nanorod Structures on Nanofibers for Textile Electrochemical Capacitor Electrodes with Intrinsic Tactile Sensing Capabilities. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 19037-19046.	8.0	22
445	Adding a stretchable deep-trap interlayer for high-performance stretchable triboelectric nanogenerators. <i>Nano Energy</i> , 2018, 50, 192-200.	16.0	100
446	Next Generation Flexible Antennas for Radio Frequency Applications. <i>Transactions on Electrical and Electronic Materials</i> , 2018, 19, 311-318.	1.9	15
447	Finger-Based Printed Sensors Integrated on a Glove for On-Site Screening Of <i>Pseudomonas aeruginosa</i> Virulence Factors. <i>Analytical Chemistry</i> , 2018, 90, 7761-7768.	6.5	53
448	Microstructural Evolution of the Thin Films of a Donor-Acceptor Semiconducting Polymer Deposited by Meniscus-Guided Coating. <i>Macromolecules</i> , 2018, 51, 4325-4340.	4.8	21
449	Aqueous Nanocoating Approach to Strong Natural Microfibers with Tunable Electrical Conductivity for Wearable Electronic Textiles. <i>ACS Applied Nano Materials</i> , 2018, 1, 2406-2413.	5.0	10
450	Flexible plastic, paper and textile lab-on-a chip platforms for electrochemical biosensing. <i>Lab on A Chip</i> , 2018, 18, 1812-1830.	6.0	110
451	Stretchable Lithium Metal Anode with Improved Mechanical and Electrochemical Cycling Stability. <i>Joule</i> , 2018, 2, 1857-1865.	24.0	132

#	ARTICLE	IF	CITATIONS
452	Vapor-Deposited Monofilament Fibers for Embroidered Electrochemical Transistor Arrays on Fabrics. <i>Advanced Electronic Materials</i> , 2018, 4, 1800271.	5.1	18
453	Cracking effects in squashable and stretchable thin metal films on PDMS for flexible microsystems and electronics. <i>Scientific Reports</i> , 2018, 8, 9492.	3.3	47
454	Environment-friendly, durable, electro-conductive, and highly transparent heaters based on silver nanowire functionalized keratin nanofiber textiles. <i>Journal of Materials Chemistry C</i> , 2018, 6, 7847-7854.	5.5	17
455	Highly Stable Battery Pack via Insulated, Reinforced, Buckling-Enabled Interconnect Array. <i>Small</i> , 2018, 14, e1800938.	10.0	35
456	Green Biobatteries: Hybrid Paper-Polymer Microbial Fuel Cells. <i>Advanced Sustainable Systems</i> , 2018, 2, 1800041.	5.3	30
457	Impact of type of intracranial EEG sensors on link strengths of evolving functional brain networks. <i>Physiological Measurement</i> , 2018, 39, 074003.	2.1	13
458	Polyurethane nanofiber strain sensors via <i>in situ</i> polymerization of polypyrrole and application to monitoring joint flexion. <i>Smart Materials and Structures</i> , 2018, 27, 075006.	3.5	26
459	Fiber-Based Sensors. , 2018, , 153-171.		8
460	Self-Healing Micellar Ion Gels Based on Multiple Hydrogen Bonding. <i>Advanced Materials</i> , 2018, 30, e1802792.	21.0	208
461	Electroluminescence from Solution-Processed Pinhole-Free Nanometer-Thickness Layers of Conjugated Polymers. <i>Nano Letters</i> , 2018, 18, 5382-5388.	9.1	4
462	Wearable Smart Objects: Microwaves Propelling Smart Textiles: A Review of Holistic Designs for Wireless Textile Nodes. <i>IEEE Microwave Magazine</i> , 2018, 19, 83-100.	0.8	23
463	Laser Sintering of Liquid Metal Nanoparticles for Scalable Manufacturing of Soft and Flexible Electronics. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 28232-28241.	8.0	189
464	A "Smart" Undershirt for Tracking Upper Body Motions: Task Classification and Angle Estimation. <i>IEEE Sensors Journal</i> , 2018, 18, 7650-7658.	4.7	37
465	Flexible substrate sensors for multiplex biomarker monitoring. <i>MRS Communications</i> , 2018, 8, 627-641.	1.8	14
466	Wearable Sensors for Upper Limb Monitoring. , 2018, , 113-134.		5
467	Actuating Textiles: Next Generation of Smart Textiles. <i>Advanced Materials Technologies</i> , 2018, 3, 1700397.	5.8	93
468	Highly transparent, all-oxide, heteroepitaxy ferroelectric thin film for flexible electronic devices. <i>Applied Surface Science</i> , 2018, 458, 540-545.	6.1	30
469	Electrical Transport and Power Dissipation in Aerosol-Jet-Printed Graphene Interconnects. <i>Scientific Reports</i> , 2018, 8, 10842.	3.3	25

#	ARTICLE	IF	CITATIONS
470	Design and development of wearable sensing nanomaterials for smart textiles. AIP Conference Proceedings, 2018, , .	0.4	19
471	Stretchable Conductive Yarn for Electronic Textiles Made Using Hollow Spindle Spinning. , 2018, , .		3
472	A Historical Review of the Development of Electronic Textiles. Fibers, 2018, 6, 34.	4.0	93
474	Ultraflexible Near-Infrared Organic Photodetectors for Conformal Photoplethysmogram Sensors. Advanced Materials, 2018, 30, e1802359.	21.0	171
475	A soft robotic exo-sheath using fabric EMG sensing for hand rehabilitation and assistance. , 2018, , .		20
476	Novel Nano-Materials and Nano-Fabrication Techniques for Flexible Electronic Systems. Micromachines, 2018, 9, 263.	2.9	38
477	Designing for a Wearable Affective Interface for the NAO Robot: A Study of Emotion Conveyance by Touch. Multimodal Technologies and Interaction, 2018, 2, 2.	2.5	22
478	Searching for Natural Conductive Fibrous Structures via a Green Sustainable Approach Based on Jute Fibers and Silver Nanoparticles. Polymers, 2018, 10, 63.	4.5	21
479	Wearable Intrinsically Soft, Stretchable, Flexible Devices for Memories and Computing. Sensors, 2018, 18, 367.	3.8	59
480	Developing an Acoustic Sensing Yarn for Health Surveillance in a Military Setting. Sensors, 2018, 18, 1590.	3.8	22
481	Surface dependent enhancement in water vapor permeation through nanochannels. Analyst, The, 2018, 143, 4256-4266.	3.5	9
482	Coextrusion of Multifunctional Smart Sensors. Advanced Engineering Materials, 2018, 20, 1800206.	3.5	26
483	Fabrication and Use of Organic Electrochemical Transistors for Sensing of Metabolites in Aqueous Media. Applied Sciences (Switzerland), 2018, 8, 928.	2.5	29
484	An electromagnetic in-shoe energy harvester using wave springs. , 2018, , .		8
485	Recent advances in organic sensors for health self-monitoring systems. Journal of Materials Chemistry C, 2018, 6, 8569-8612.	5.5	110
486	Toward Privacy Enhanced Solutions For Granular Control Over Health Data Collected by Wearable Devices. , 2018, , .		2
487	Electrical Properties of Liquid Metal in Making Biomedical Soft Electronics. Springer Series in Biomaterials Science and Engineering, 2018, , 53-82.	1.0	1
488	Recent Advances in Soft E-Textiles. Inventions, 2018, 3, 23.	2.5	14

#	ARTICLE	IF	CITATIONS
489	Mussel-Inspired Polydopamine Coating for Flexible Ternary Resistive Memory. Chemistry - an Asian Journal, 2018, 13, 1744-1750.	3.3	9
490	Fabrication of highly conductive and multifunctional polyester fabrics by spray-coating with PEDOT:PSS solutions. Progress in Organic Coatings, 2018, 121, 89-96.	3.9	39
491	Adaptive Curvature Flexure Test to Assess Flexible Electronic Systems. , 2018, , .		11
492	Breathable and Flexible Piezoelectric ZnO@PVDF Fibrous Nanogenerator for Wearable Applications. Polymers, 2018, 10, 745.	4.5	89
493	Soft Microreactors for the Deposition of Conductive Metallic Traces on Planar, Embossed, and Curved Surfaces. Advanced Functional Materials, 2018, 28, 1803020.	14.9	44
494	Structural and electrochemical properties of LiMn _{0.6} Fe _{0.4} PO ₄ as a cathode material for flexible lithium-ion batteries and self-charging power pack. Nano Energy, 2018, 52, 510-516.	16.0	78
495	Wearable E-Textile Technologies: A Review on Sensors, Actuators and Control Elements. Inventions, 2018, 3, 14.	2.5	139
496	Graphene Nanoplatelets-Based Advanced Materials and Recent Progress in Sustainable Applications. Applied Sciences (Switzerland), 2018, 8, 1438.	2.5	201
497	Coating of Polyaniline Molecules on Cotton Fabric via Successive Ionic Layer Adsorption and Reaction (SILAR) Technique. Key Engineering Materials, 0, 775, 317-322.	0.4	0
498	Breathable Dry Silver/Silver Chloride Electronic Textile Electrodes for Electrodermal Activity Monitoring. Biosensors, 2018, 8, 79.	4.7	18
499	Study of Wearables with Embedded Electronics Through Experiments and Simulations. , 2018, , .		11
500	Preferred Placement and Usability of a Smart Textile System vs. Inertial Measurement Units for Activity Monitoring. Sensors, 2018, 18, 2501.	3.8	37
501	Biofabrication Strategy for Functional Fabrics. Nano Letters, 2018, 18, 6017-6021.	9.1	16
502	Diode fibres for fabric-based optical communications. Nature, 2018, 560, 214-218.	27.8	228
503	Development of ceramic-controlled piezoelectric devices for biomedical applications. , 2018, , 47-62.		7
504	Stress and Magnetic Field Bimode Detection Sensors Based on Flexible Cl/CNTs@PDMS Sponges. ACS Applied Materials & Interfaces, 2018, 10, 30774-30784.	8.0	57
505	High-Performance Flexible ZnO Nanorod UV/Gas Dual Sensors Using Ag Nanoparticle Templates. ACS Applied Materials & Interfaces, 2018, 10, 31505-31514.	8.0	41
506	Development of a superhydrophobic electrospun poly(vinylidene fluoride) web <i>via</i> plasma etching and water immersion for energy harvesting applications. RSC Advances, 2018, 8, 28825-28835.	3.6	32

#	ARTICLE	IF	CITATIONS
507	Nanostructured polymer-based piezoelectric and triboelectric materials and devices for energy harvesting applications. Journal Physics D: Applied Physics, 2018, 51, 303001.	2.8	82
508	Wearable data analysis, visualisation and recommendations on the go using android middleware. Multimedia Tools and Applications, 2018, 77, 26397-26448.	3.9	15
509	A textile-based triboelectric nanogenerator with humidity-resistant output characteristic and its applications in self-powered healthcare sensors. Nano Energy, 2018, 50, 513-520.	16.0	217
510	The key role of 3-glycidoxypolytrimethoxysilane sol-gel precursor in the development of wearable sensors for health monitoring. Journal of Sol-Gel Science and Technology, 2018, 87, 27-40.	2.4	29
511	Making Grooves with Needles. , 2018, , .		9
512	Versatile Core-Sheath Yarn for Sustainable Biomechanical Energy Harvesting and Real-Time Human-Interactive Sensing. Advanced Energy Materials, 2018, 8, 1801114.	19.5	212
513	Smart Textile Fabrics for Screening Millimeter Wavelength Radiations: Challenges and Future Perspectives. ChemistrySelect, 2018, 3, 6087-6101.	1.5	5
514	A Wearable Sensing Device for Monitoring Single Planes Neck Movements: Assessment of Its Performance. IEEE Sensors Journal, 2018, 18, 6327-6336.	4.7	17
515	System on Fabrics Architecture Using Distributed Computing. IEEE Sensors Journal, 2018, 18, 5929-5936.	4.7	2
516	Wearables in Medicine. Advanced Materials, 2018, 30, e1706910.	21.0	358
517	Performance improvement of fiber supercapacitor by using NiCo ₂ O ₄ nano-needles and Ag nanowires. , 2018, , .		1
518	Conductive textiles. , 2018, , 305-334.		5
519	Survey on Textile Electrode Technologies for Electrocardiographic (ECG) Monitoring, from Metal Wires to Polymers. Advanced Materials Technologies, 2018, 3, 1800008.	5.8	70
520	Freestanding Electrode Pairs with High Areal Density Fabricated under High Pressure and High Temperature for Flexible Lithium Ion Batteries. ACS Applied Energy Materials, 2018, 1, 3171-3179.	5.1	13
521	Manufacturing techniques and property evaluations of conductive elastic knits. Journal of Industrial Textiles, 2019, 49, 503-533.	2.4	4
522	Electrically conductive and superhydrophobic textiles via pyrrole polymerization and surface hydrophobization after alkaline hydrolysis. Textile Research Journal, 2019, 89, 1436-1447.	2.2	9
523	Development of biodegradable conductive cotton yarns by in-situ polymerisation of pyrrole. Journal of the Textile Institute, 2019, 110, 10-15.	1.9	4
524	Organic Photovoltaics: Toward Self-Powered Wearable Electronics. Proceedings of the IEEE, 2019, 107, 2137-2154.	21.3	56

#	ARTICLE	IF	CITATIONS
525	An Imperceptible Magnetic Skin. Advanced Materials Technologies, 2019, 4, 1900493.	5.8	27
526	Quantifying Performance of Permeation Barrier Encapsulation Systems for Flexible and Glass-Based Electronics and Their Application to Perovskite Solar Cells. Advanced Electronic Materials, 2019, 5, 1800978.	5.1	42
527	Progress on wearable triboelectric nanogenerators in shapes of fiber, yarn, and textile. Science and Technology of Advanced Materials, 2019, 20, 837-857.	6.1	79
528	Continuous Meter-Scale Synthesis of Weavable Tunicate Cellulose/Carbon Nanotube Fibers for High-Performance Wearable Sensors. ACS Nano, 2019, 13, 9332-9341.	14.6	103
529	Robust sandwich micro-structure coating layer for wear-resistant conductive polyester fabrics. Applied Surface Science, 2019, 494, 969-976.	6.1	21
530	A Deformable Interface for Human Touch Recognition Using Stretchable Carbon Nanotube Dielectric Elastomer Sensors and Deep Neural Networks. Soft Robotics, 2019, 6, 611-620.	8.0	35
531	Stretchable fabric-based LiCoO ₂ electrode for lithium ion batteries. Extreme Mechanics Letters, 2019, 32, 100532.	4.1	13
532	Embroidered Rectangular Split-Ring Resonators for Material Characterisation. , 2019, , .		5
533	Sweat sensing in the smart wearables era: Towards integrative, multifunctional and body-compliant perspiration analysis. Sensors and Actuators A: Physical, 2019, 296, 200-221.	4.1	82
534	Systematic Analysis of a Military Wearable Device Based on a Multi-Level Fusion Framework: Research Directions. Sensors, 2019, 19, 2651.	3.8	40
535	Zirconia-Based Ultra-Thin Compact Flexible CPW-Fed Slot Antenna for IoT. Sensors, 2019, 19, 3134.	3.8	14
536	Metallized SU-8 thin film patterns on stretchable PDMS. Journal of Micromechanics and Microengineering, 2019, 29, 095009.	2.6	8
537	“Smart” not only intelligent! Co-creating priorities and design direction for “smart” footwear to support independent ageing.. International Journal of Fashion Design, Technology and Education, 2019, 12, 313-324.	1.6	9
538	Development of textile-based transmission lines using conductive yarns and ultrasonic welding technology for e-textile applications. Journal of Engineered Fibers and Fabrics, 2019, 14, 155892501985660.	1.0	15
539	Local Electrical Characterization of PVDF Textile Filament. Fibers and Polymers, 2019, 20, 1333-1339.	2.1	9
540	Method for Assessment of Folding-Reliability of Flexible Electronics in Wearable Applications. , 2019, , .		0
541	Solution-based flexible indium oxide thin-film transistors with high mobility and stability by selective surface modification. Materials Science in Semiconductor Processing, 2019, 102, 104590.	4.0	3
542	Semiliquid Metal Enabled Highly Conductive Wearable Electronics for Smart Fabrics. ACS Applied Materials & Interfaces, 2019, 11, 30019-30027.	8.0	65

#	ARTICLE	IF	CITATIONS
543	Development of core-sheath structured smart nanofibers by coaxial electrospinning for thermo-regulated textiles. RSC Advances, 2019, 9, 21844-21851.	3.6	23
544	Classifying Diverse Physical Activities Using “Smart Garments” Sensors, 2019, 19, 3133.	3.8	22
545	IoT Based Heart Activity Monitoring Using Inductive Sensors. Sensors, 2019, 19, 3284.	3.8	39
546	Textile Display with AMOLED Using a Stacked-Pixel Structure on a Polyethylene Terephthalate Fabric Substrate. Materials, 2019, 12, 2000.	2.9	9
547	Hybrid Cover Yarn’s Element Orientation and Its Impacts on Mechanical/Tensile Behavior of Conductive Yarns and Fabrics. , 2019, , 77-90.		0
548	Research on evaluating the design effect of clothing and accessories with 2-tuple linguistic information. Journal of Intelligent and Fuzzy Systems, 2019, 37, 2059-2066.	1.4	6
549	Monte Carlo simulations of novel optical imaging methods for 131I radiometabolic therapy dosimetry. Journal of Instrumentation, 2019, 14, P07003-P07003.	1.2	0
550	Characterization of Knitted Coils for e-Textiles. IEEE Sensors Journal, 2019, 19, 7835-7840.	4.7	14
551	Digital printing of electroluminescent devices on textile substrates. Journal of Engineered Fibers and Fabrics, 2019, 14, 155892501986162.	1.0	2
552	E-Textiles for Healthy Ageing. Sensors, 2019, 19, 4463.	3.8	51
553	Direct Ink Writing of Wearable Thermoresponsive Supercapacitors with rGO/CNT Composite Electrodes. Advanced Materials Technologies, 2019, 4, 1900691.	5.8	36
554	One-Step Synthesis of Monodispersed Mesoporous Carbon Nanospheres for High-Performance Flexible Quasi-Solid-State Micro-Supercapacitors. Small, 2019, 15, e1903836.	10.0	45
555	Coating of multi-walled carbon nanotubes on cotton fabric via conventional dyeing for enhanced electrical and mechanical properties. AIP Conference Proceedings, 2019, , .	0.4	2
556	Highly Conductive Carbon Nanotube-Thermoplastic Polyurethane Nanocomposite for Smart Clothing Applications and Beyond. Nanomaterials, 2019, 9, 1287.	4.1	21
557	Design of Interactions for Handheld Augmented Reality Devices Using Wearable Smart Textiles: Findings from a User Elicitation Study. Applied Sciences (Switzerland), 2019, 9, 3177.	2.5	8
558	Continuous Finger Gesture Recognition Based on Flex Sensors. Sensors, 2019, 19, 3986.	3.8	29
559	Wearable Fiber Optic Technology Based on Smart Textile: A Review. Materials, 2019, 12, 3311.	2.9	85
560	Mercerization to enhance flexibility and electromechanical stability of reduced graphene oxide cotton yarns. Composites Science and Technology, 2019, 184, 107845.	7.8	13

#	ARTICLE	IF	CITATIONS
561	Washing Durability of PDMS-Conductive Fabric Composite: Realizing Washable UHF RFID Tags. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 2572-2576.	4.0	30
562	Reaction Mechanism of Pt Atomic Layer Deposition on Various Textile Surfaces. Chemistry of Materials, 2019, 31, 8995-9002.	6.7	13
563	High Figure-of-Merit Transparent Copper/Zinc Oxide Window Electrodes for Organic Photovoltaics. Frontiers in Materials, 2019, 6, .	2.4	4
565	Design smart clothing using digital human models. , 2019, , 683-698.		9
566	Integration of commercial pressure measurement technologies. , 2019, , 699-708.		0
567	Near-Field Communication Sensors. Sensors, 2019, 19, 3947.	3.8	51
568	Leather-Based Strain Sensor with Hierarchical Structure for Motion Monitoring. Advanced Materials Technologies, 2019, 4, 1900442.	5.8	37
569	Nanotechnology for Defence Applications. , 2019, , .		9
571	Stamp-Assisted Gravure Printing of Micro-Supercapacitors with General Flexible Substrates. , 2019, , .		6
572	Characterisation of Electrical and Stiffness Properties of Conductive Textile Coatings with Metal Flake-Shaped Fillers. Materials, 2019, 12, 3537.	2.9	10
573	The rise of flexible electronics in neuroscience, from materials selection to in vitro and in vivo applications. Advances in Physics: X, 2019, 4, 1664319.	4.1	12
574	Van der Pauw Method for Measuring the Electrical Conductivity of Smart Textiles. Fibre Chemistry, 2019, 51, 139-146.	0.2	12
575	Application-Based Production and Testing of a Core/Sheath Fiber Strain Sensor for Wearable Electronics: Feasibility Study of Using the Sensors in Measuring Tri-Axial Trunk Motion Angles. Sensors, 2019, 19, 4288.	3.8	22
576	Versatile 3D porous recycled carbon garments with fully-loaded active materials in the current collector for advanced lithium-ion batteries. Composites Part B: Engineering, 2019, 179, 107519.	12.0	12
577	Investigation of Electrical Characteristics Dependency of Roll-to-Roll Printed Solar Cells With Silver Electrodes on Mechanical Tensile Strain. IEEE Transactions on Device and Materials Reliability, 2019, 19, 718-722.	2.0	5
578	Fabrics and Garments as Sensors: A Research Update. Sensors, 2019, 19, 3570.	3.8	29
579	Military Textiles - An Overview of New Developments. Key Engineering Materials, 2019, 812, 120-126.	0.4	8
580	Surface modification of textile electrodes to improve electrocardiography signals in wearable smart garment. Journal of Materials Science: Materials in Electronics, 2019, 30, 16666-16675.	2.2	34

#	ARTICLE	IF	CITATIONS
581	Si film electrodes adopting a dual thermal effect of metal-induced crystallization (MIC) and Kirkendall effect. Journal of Alloys and Compounds, 2019, 809, 151810.	5.5	4
582	Hydrophilicity Improvement of Graphene Fibers for High-Performance Flexible Supercapacitor. Industrial & Engineering Chemistry Research, 2019, 58, 17338-17345.	3.7	30
583	Self-Powered Inhomogeneous Strain Sensor Enabled Joint Motion and Three-Dimensional Muscle Sensing. ACS Applied Materials & Interfaces, 2019, 11, 34251-34257.	8.0	40
584	A novel investigation on ZnO nanostructures on carbon fabric for harvesting thermopower on textile. Applied Surface Science, 2019, 496, 143658.	6.1	16
585	Improvement in the Electrical Properties of Nickel-Plated Steel Using Graphitic Carbon Coatings. Advanced Engineering Materials, 2019, 21, 1900408.	3.5	1
586	Journey Through Dementia with E-textile as Medium for Assisting Memory Recall: Tactile Dialogues. , 2019, , .		0
587	Tenso-resistive printed sensors for flexible elements of systems and mechanisms. Journal of Physics: Conference Series, 2019, 1210, 012067.	0.4	3
588	An Investigation of Different Machine Learning Approaches for Epileptic Seizure Detection. , 2019, , .		16
589	Electrode placement in electrocardiography smart garments: A review. Journal of Electrocardiology, 2019, 57, 27-30.	0.9	26
590	SmartAid: A Low-Power Smart Hearing Aid For Stutterers. , 2019, , .		2
591	Silk Fibroin-Sheathed Conducting Polymer Wires as Organic Connectors for Biosensors. Biosensors, 2019, 9, 103.	4.7	16
592	Fabric Circuit Board Connecting to Flexible Sensors or Rigid Components for Wearable Applications. Sensors, 2019, 19, 3745.	3.8	14
593	Recent trends in smart textiles: Wearable sensors and drug release systems. AIP Conference Proceedings, 2019, , .	0.4	10
594	CETM: A Cost-Effective Traffic Management to Enhance IoT Driven 5G Communication Systems. , 2019, , .		0
595	Resistance Welding in Smart Textile. , 2019, , .		10
596	Study of Electrical and Mechanical Characteristics of Inkjet-Printed Patch Antenna Under Uniaxial and Biaxial Bending. , 2019, , .		9
597	Flexible Piezoelectric Harvester for Human Fingers: Measurements and Applications. , 2019, , .		1
598	Human-interactive drone system remotely controlled by printed strain/pressure sensors consisting of carbon-based nanocomposites. Composites Science and Technology, 2019, 182, 107784.	7.8	19

#	ARTICLE	IF	CITATIONS
599	Flexible graphene photodetectors for wearable fitness monitoring. Science Advances, 2019, 5, eaaw7846.	10.3	186
600	Facile Strategy for Fabrication of Flexible, Breathable, and Washable Piezoelectric Sensors via Welding of Nanofibers with Multiwalled Carbon Nanotubes (MWCNTs). ACS Applied Materials & Interfaces, 2019, 11, 38023-38030.	8.0	52
601	The alignment of BCZT particles in PDMS boosts the sensitivity and cycling reliability of a flexible piezoelectric touch sensor. Journal of Materials Chemistry C, 2019, 7, 961-967.	5.5	68
602	Bio-Integrated Wearable Systems: A Comprehensive Review. Chemical Reviews, 2019, 119, 5461-5533.	47.7	822
603	Hybrid carbon nanostructured fibers: stepping stone for intelligent textile-based electronics. Nanoscale, 2019, 11, 3046-3101.	5.6	57
604	Design of functional textile coatings via non-conventional electrofluidodynamic processes. Journal of Colloid and Interface Science, 2019, 541, 367-375.	9.4	31
605	Long cycling, thermal stable, dendrites free gel polymer electrolyte for flexible lithium metal batteries. Electrochimica Acta, 2019, 301, 304-311.	5.2	48
606	Novel Electronic Packaging Method for Functional Electronic Textiles. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2019, 9, 216-225.	2.5	15
607	Function-driven engineering of 1D carbon nanotubes and 0D carbon dots: mechanism, properties and applications. Nanoscale, 2019, 11, 1475-1504.	5.6	134
608	Wearable Technologies in Sportswear. , 2019, , 123-160.		11
609	Towards a Taxonomy for In-Vehicle Interactions Using Wearable Smart Textiles: Insights from a User-Elicitation Study. Multimodal Technologies and Interaction, 2019, 3, 33.	2.5	11
610	Water-Assisted Lifting of Polycrystalline CdS/CdTe Thin Films Using Heterogeneous Interfacial Engineering. Advanced Materials Interfaces, 2019, 6, 1900300.	3.7	7
611	Validation of Polymer-Based Screen-Printed Textile Electrodes for Surface EMG Detection. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 1370-1377.	4.9	50
612	Printed carbon based interface for protein immobilization. Journal of Materials Science: Materials in Electronics, 2019, 30, 12465-12474.	2.2	0
613	Highly Durable Nanofiber-Reinforced Elastic Conductors for Skin-Tight Electronic Textiles. ACS Nano, 2019, 13, 7905-7912.	14.6	103
614	Highly Sensitive, Rugged, and Wearable Fabric Strain Sensor Based on Graphene Clad Polyester Knitted Elastic Band for Human Motion Monitoring. Advanced Materials Interfaces, 2019, 6, 1900409.	3.7	57
615	Sensors for monitoring workplace health. , 2019, , 537-553.		1
616	A NiTi alloy weft knitted fabric for smart firefighting clothing. Smart Materials and Structures, 2019, 28, 065014.	3.5	17

#	ARTICLE	IF	CITATIONS
617	Development of a Function-Integrative Sleeve for Medical Applications. <i>Sensors</i> , 2019, 19, 2588.	3.8	3
618	Self-Powered Bio-Inspired Spider-Net-Coding Interface Using Single-Electrode Triboelectric Nanogenerator. <i>Advanced Science</i> , 2019, 6, 1900617.	11.2	134
619	Plasmonically Engineered Textile Polymer Solar Cells for High-Performance, Wearable Photovoltaics. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 20864-20872.	8.0	37
620	Flexible Thermoelectric Materials and Generators: Challenges and Innovations. <i>Advanced Materials</i> , 2019, 31, e1807916.	21.0	419
621	All Inkjet-Printed Graphene-Silver Composite Ink on Textiles for Highly Conductive Wearable Electronics Applications. <i>Scientific Reports</i> , 2019, 9, 8035.	3.3	141
622	Heat-activated separation transfer for multi-purpose digital fabrication of paper and polymer electronics. <i>Microelectronic Engineering</i> , 2019, 216, 111020.	2.4	0
623	NiCo-LDH nanowires@nanosheets core-shell structure grown on carbon fiber cloth for high performance flexible supercapacitor electrode. <i>Journal of Alloys and Compounds</i> , 2019, 799, 15-25.	5.5	86
624	Design and Optimization of Flexible Polypyrrole/Bacterial Cellulose Conductive Nanocomposites Using Response Surface Methodology. <i>Polymers</i> , 2019, 11, 960.	4.5	28
625	Mechanically and electrically robust stretchable e-textiles by controlling the permeation depth of silver-based conductive inks. <i>Flexible and Printed Electronics</i> , 2019, 4, 025006.	2.7	5
626	Recent Advances in Fabrication Methods for Flexible Antennas in Wearable Devices: State of the Art. <i>Sensors</i> , 2019, 19, 2312.	3.8	107
627	Wearable and Flexible Textile Electrodes for Biopotential Signal Monitoring: A review. <i>Electronics (Switzerland)</i> , 2019, 8, 479.	3.1	183
628	Mechanically Flexible Conductors for Stretchable and Wearable e-Skin and e-Textile Devices. <i>Advanced Materials</i> , 2019, 31, e1901408.	21.0	313
629	Flexible piezoelectric energy harvesters using different architectures of ferrite based nanocomposites. <i>CrystEngComm</i> , 2019, 21, 3478-3488.	2.6	20
630	ElectroDermis. , 2019, , .		56
631	Hand Puppet as Means for eTextile Synthesis. , 2019, , .		6
632	Long Liquid Crystal Elastomer Fibers with Large Reversible Actuation Strains for Smart Textiles and Artificial Muscles. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 19514-19521.	8.0	168
633	Disposable Sensors in Diagnostics, Food, and Environmental Monitoring. <i>Advanced Materials</i> , 2019, 31, e1806739.	21.0	540
634	Polymer complexation for functional fibers. <i>Science China Technological Sciences</i> , 2019, 62, 931-944.	4.0	11

#	ARTICLE	IF	CITATIONS
635	Bioinspired Polydopamine-Based Resistive-Switching Memory on Cotton Fabric for Wearable Neuromorphic Device Applications. <i>Advanced Materials Technologies</i> , 2019, 4, 1900151.	5.8	33
636	Efficient and Adhesiveless Metallization of Flexible Polyimide by Functional Grafting of Carboxylic Acid Groups. <i>Langmuir</i> , 2019, 35, 7212-7221.	3.5	24
637	Soft Pneumatic Sensing Chambers for Generic and Interactive Human-Machine Interfaces. <i>Advanced Intelligent Systems</i> , 2019, 1, 1900002.	6.1	43
638	Wearable solid-state capacitors based on two-dimensional material all-textile heterostructures. <i>Nanoscale</i> , 2019, 11, 9912-9919.	5.6	34
639	GRATE: A framework and software for GRaph based Analysis of Transmission Electron Microscopy images of polymer films. <i>Computational Materials Science</i> , 2019, 163, 1-10.	3.0	3
640	Actuator Materials: Review on Recent Advances and Future Outlook for Smart Textiles. <i>Fibers</i> , 2019, 7, 21.	4.0	63
641	A dynamic thermoregulatory material inspired by squid skin. <i>Nature Communications</i> , 2019, 10, 1947.	12.8	109
642	A microstructuring route to enhanced thermoelectric efficiency of reduced graphene oxide films. <i>Materials Research Express</i> , 2019, 6, 075614.	1.6	7
643	Recent Progress in Electrochemical pH-Sensing Materials and Configurations for Biomedical Applications. <i>Chemical Reviews</i> , 2019, 119, 5248-5297.	47.7	161
644	UV/NIR-Light-Triggered Rapid and Reversible Color Switching for Rewritable Smart Fabrics. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 13370-13379.	8.0	33
645	Flexible Molybdenum Disulfide (MoS_2) Atomic Layers for Wearable Electronics and Optoelectronics. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 11061-11105.	8.0	277
646	Cords and Chords: Exploring the Role of E-Textiles in Computational Audio. <i>Frontiers in ICT</i> , 2019, 6, .	3.6	16
648	Demonstration of Wireless Access to Batteryless and Antennaless Sensors Distributed on Clothes. , 2019, , .		3
649	Carbon-based electronic textiles: materials, fabrication processes and applications. <i>Journal of Materials Science</i> , 2019, 54, 10079-10101.	3.7	48
650	Bending-durable membrane-electrode assembly using metal nanowires for bendable polymer electrolyte membrane fuel cell. <i>Energy</i> , 2019, 172, 874-880.	8.8	14
651	Wearable Antennas: Nontextile Versus Fully Textile Solutions. <i>IEEE Antennas and Propagation Magazine</i> , 2019, 61, 71-83.	1.4	68
652	Design and Actuation of a Fabric-Based Worm-Like Robot. <i>Biomimetics</i> , 2019, 4, 13.	3.3	18
654	A liquid PEDOT:PSS electrode-based stretchable triboelectric nanogenerator for a portable self-charging power source. <i>Nanoscale</i> , 2019, 11, 7513-7519.	5.6	55

#	ARTICLE	IF	CITATIONS
655	Structure-Property Relationships in Graphene-Based Strain and Pressure Sensors for Potential Artificial Intelligence Applications. <i>Sensors</i> , 2019, 19, 1250.	3.8	64
656	A Shape Memory High-Voltage Supercapacitor with Asymmetric Organic Electrolytes for Driving an Integrated NO ₂ Gas Sensor. <i>Advanced Functional Materials</i> , 2019, 29, 1901996.	14.9	44
657	A New Architecture for Fibrous Organic Transistors Based on a Double-Stranded Assembly of Electrode Microfibers for Electronic Textile Applications. <i>Advanced Materials</i> , 2019, 31, e1900564.	21.0	36
658	Smart Textiles and Wearable Technology Innovation With Carbon Nanotube Technology. , 2019, , 263-311.		8
659	Recent Development of Graphene-Based Ink and Other Conductive Material-Based Inks for Flexible Electronics. <i>Journal of Electronic Materials</i> , 2019, 48, 3428-3450.	2.2	71
660	Human-motion interactive energy harvester based on polyaniline functionalized textile fibers following metal/polymer mechano-responsive charge transfer mechanism. <i>Nano Energy</i> , 2019, 60, 794-801.	16.0	19
661	PVDF-based ferroelectric polymers and dielectric elastomers for sensor and actuator applications: a review. <i>Functional Composites and Structures</i> , 2019, 1, 012003.	3.4	87
662	Second Skin Enabled by Advanced Electronics. <i>Advanced Science</i> , 2019, 6, 1900186.	11.2	177
663	Triboelectric single-electrode-output control interface using patterned grid electrode. <i>Nano Energy</i> , 2019, 60, 545-556.	16.0	71
664	Superior Stretchable Conductors by Electroless Plating of Copper on Knitted Fabrics. <i>ACS Applied Electronic Materials</i> , 2019, 1, 397-406.	4.3	37
665	Water Transfer Printing Enhanced by Water-Induced Pattern Expansion: Toward Large-Area 3D Electronics. <i>Advanced Materials Technologies</i> , 2019, 4, 1800600.	5.8	29
666	Fabrication of Large-Area Bimodal Sensors by All-Inkjet-Printing. <i>Advanced Materials Technologies</i> , 2019, 4, 1800703.	5.8	40
667	Highly flexible, breathable, tailorable and washable power generation fabrics for wearable electronics. <i>Nano Energy</i> , 2019, 58, 750-758.	16.0	155
668	Electrical heating properties of various electro-circuit patterns coated on cotton fabric using graphene/polymer composites. <i>Textile Research Journal</i> , 2019, 89, 4114-4130.	2.2	22
669	A dielectric-defined lateral heterojunction in a monolayer semiconductor. <i>Nature Electronics</i> , 2019, 2, 60-65.	26.0	95
670	Harnessing Commodity Wearable Devices to Capture Learner Engagement. <i>IEEE Access</i> , 2019, 7, 15749-15757.	4.2	4
671	Wearable biosensors for healthcare monitoring. <i>Nature Biotechnology</i> , 2019, 37, 389-406.	17.5	1,895
672	2D materials for 1D electrochemical energy storage devices. <i>Energy Storage Materials</i> , 2019, 19, 102-123.	18.0	71

#	ARTICLE	IF	CITATIONS
673	Wearable and Implantable Triboelectric Nanogenerators. <i>Advanced Functional Materials</i> , 2019, 29, 1808820.	14.9	296
674	Low-Power, Flexible Nonvolatile Organic Transistor Memory Based on an Ultrathin Bilayer Dielectric Stack. <i>Advanced Electronic Materials</i> , 2019, 5, 1800799.	5.1	23
675	Microstrip transmission line model-fitting approach for characterization of textile materials as dielectrics and conductors for wearable electronics. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2019, 32, e2582.	1.9	9
676	Gold loaded textile fibres as substrates for SERS detection. <i>Journal of Molecular Structure</i> , 2019, 1185, 333-340.	3.6	19
677	Ionic liquid-activated wearable electronics. <i>Materials Today Physics</i> , 2019, 8, 78-85.	6.0	47
678	A Novel Method for Embedding Semiconductor Dies within Textile Yarn to Create Electronic Textiles. <i>Fibers</i> , 2019, 7, 12.	4.0	19
679	Mechanical characterization of soft substrates for wearable and washable electronic systems. <i>APL Materials</i> , 2019, 7, .	5.1	12
680	Ag flakes based stretchable composite tracks with high conductivity by adding AgNWs. , 2019, , .		0
681	Development of Low Cost Stretchable Conductive Yarns for Electronic Textile Applications. , 2019, , .		0
682	Flexible Circuits Based on Aluminum Conductor and Nonwoven Substrate. , 2019, , .		1
683	Wearable electronic textiles. <i>Textile Progress</i> , 2019, 51, 299-384.	2.0	11
684	A Review: Solder Joint Cracks at Sn-Bi58 Solder ACFs Joints. , 2019, , .		1
685	Brain MRI Super-resolution Reconstruction using a Multi-level and Parallel Conv-Deconv Network. , 2019, , .		1
686	Boundary Sensitive and Category Sensitive Network for Temporal Action Proposal Generation. , 2019, , .		9
687	Applying SafeComp, a Formal Integrated System Modeling Framework, to the Design of a Steam Generator Controller. , 2019, , .		1
688	An enhanced approach for energy optimization using protocol based on multi factors. , 2019, , .		1
689	Electromagnetic Torque Synthesis From Air-gap Magnetic Field Harmonic for Permanent Magnet Vernier Motor. , 2019, , .		0
690	Assessment of the Impact of Split Storage within Modular Multilevel Converter. , 2019, , .		10

#	ARTICLE	IF	CITATIONS
691	Intelligent Fault Detection Scheme for Drilling Process. , 2019, , .		3
692	A Practical Image Encryption Algorithm for Privacy Protection. , 2019, , .		1
693	Cram�r-Rao Bound for Wideband DOA Estimation with Uncorrelated Sources. , 2019, , .		5
694	An Asynchronous Multi-Body Simulation Framework for Real-Time Dynamics, Haptics and Learning with Application to Surgical Robots. , 2019, , .		10
696	A Simulation Method of Three-Dimensional Cloud Based on WRF Data. , 2019, , .		0
697	Distributed Mediator. , 2019, , .		0
698	Determination of the Sensitivity for Ultrasonic Sensor by Comparison Method. , 2019, , .		0
699	Automatic Classification of Community Question Answer (CQA) for Non Factoid Queries. , 2019, , .		0
700	Estimation of Core Loss of High Frequency Nanocrystalline Transformer for Non-sinusoidal Excitation. , 2019, , .		1
701	Evaluation of off-the-shelf NFC Devices for Biomedical Applications. , 2019, , .		4
702	Rectangular Three Band Antenna Bending Effect. , 2019, , .		0
703	Two-Fold Noise-Cancelling Low-Noise Amplifier in 28-nm CMOS. , 2019, , .		1
704	Inherent MEMS sensor array variability reduction using robust regression. , 2019, , .		1
705	Evaluation Research on the Effectiveness of Practical Teaching of Ideological and Political Courses in Higher Vocational Colleges under Micro-Culture. , 2019, , .		0
706	Unmanned Aerial Vehicle Positioning by Data from Pocket Device Sensors. , 2019, , .		3
707	Development of an Electromagnetic Suspension Measuring System. , 2019, , .		0
708	Reinforcement Learning-Based Joint Power and Resource Allocation for URLLC in 5G. , 2019, , .		14
709	The Challenges of Implementing an MBIST Interface: A Practical Application. , 2019, , .		3

#	ARTICLE	IF	CITATIONS
710	Analysis of lightwave system using negative dispersion fiber and high speed optical telemetry. , 2019, , .		0
711	Textile based ferroelectret for wearable energy harvesting. Journal of Physics: Conference Series, 2019, 1407, 012117.	0.4	0
712	Distributed Secondary Control of Droop-Controlled Microgrid Using Averaged Feedback Reward Pinning. IEEE Access, 2019, 7, 183940-183947.	4.2	3
713	A Generalized Marcum Q-Function for Fading Conditions. , 2019, , .		0
714	Large-Scale Few-Shot Learning: Knowledge Transfer With Class Hierarchy. , 2019, , .		78
715	Anti-vibration positioning algorithm of bridge crane based on phase plane analysis. Journal of Engineering, 2019, 2019, 8370-8373.	1.1	6
716	Electrode Electrolyte Compatibility for Superior Performance of Super-Capacitor. , 2019, , .		3
717	A Fuzzy-AHP Approach for Strategic Evaluation and Selection of Digital Marketing Tools. , 2019, , .		7
718	A novel jammer suppression method based on KASPICE-STAP. , 2019, , .		2
719	Stability Analysis of Single-phase Voltage Source Converters Based on Linearization Theory. , 2019, , .		1
720	DnM3Net: Multi-Scale & Multi-Level Shuffle-CNN Via Multi-Level Attention for Image Denoising. , 2019, , .		0
721	Control Strategy of Loss Balance on the IGCT-Based Large Power Three-level Active Neutral-Point-Clamped Converter. , 2019, , .		0
722	Requirements for Durability Improvement of Conductive Patterns Permeated in Textiles under Cyclic Tensile Deformation. Micromachines, 2019, 10, 721.	2.9	6
723	Two competing acceptors: Electronic structure of PNDITBT probed by time-resolved electron paramagnetic resonance spectroscopy. Journal of Chemical Physics, 2019, 151, 234901.	3.0	2
724	An Introduction to Wearable Technology and Smart Textiles and Apparel: Terminology, Statistics, Evolution, and Challenges. , 0, , .		3
725	Elastic kirigami patch for electromyographic analysis of the palm muscle during baseball pitching. NPG Asia Materials, 2019, 11, .	7.9	24
726	Introductory Chapter: Engineered Fabrics. , 0, , .		0
727	Structural Parameters Affecting Electrothermal Properties of Woolen Knitted Fabrics Integrated with Silver-Coated Yarns. Polymers, 2019, 11, 1709.	4.5	10

#	ARTICLE	IF	CITATIONS
728	Effects of Environmental Conditions and Composition on the Electrical Properties of Textile Fabrics. Sensors, 2019, 19, 5145.	3.8	5
729	Wirelessly Accessible Batteryless Sensors Distributed on Conductive Textile. , 2019, , .		0
730	Thermoresistive Properties of Graphite Platelet Films Supported by Different Substrates. Materials, 2019, 12, 3638.	2.9	7
731	A Comparative Characterization of Smart Textile Pressure Sensors. , 2019, 2019, 1745-1748.		1
732	Comparison of the conductive properties of polyester/viscose fabric treated with Cu nanoparticle and MWCNTs. Journal of Nanostructure in Chemistry, 2019, 9, 335-348.	9.1	11
733	Multifunctional Textile Platform for Fiber Optic Wearable Temperature-Monitoring Application. Micromachines, 2019, 10, 866.	2.9	18
734	Allylamine PECVD Modification of PDMS as Simple Method to Obtain Conductive Flexible Polypyrrole Thin Films. Polymers, 2019, 11, 2108.	4.5	5
735	An efficient flexible graphene-based light-emitting device. Nanoscale Advances, 2019, 1, 4745-4754.	4.6	22
736	Novel smart textile with phase change materials encapsulated core-sheath structure fabricated by coaxial electrospinning. Chemical Engineering Journal, 2019, 355, 532-539.	12.7	220
737	Advanced Multimaterial Electronic and Optoelectronic Fibers and Textiles. Advanced Materials, 2019, 31, e1802348.	21.0	200
738	Reconfigurable electronic devices enabled by laser-sintered liquid metal nanoparticles. Flexible and Printed Electronics, 2019, 4, 015004.	2.7	31
739	Block Copolymer Elastomers for Stretchable Electronics. Accounts of Chemical Research, 2019, 52, 63-72.	15.6	85
740	ePhysio: A Wearables-Enabled Platform for the Remote Management of Musculoskeletal Diseases. Sensors, 2019, 19, 2.	3.8	33
741	Inkjet Process for Conductive Patterning on Textiles: Maintaining Inherent Stretchability and Breathability in Knit Structures. Advanced Functional Materials, 2019, 29, 1807573.	14.9	54
742	High-performance textile electrodes for wearable electronics obtained by an improved in situ polymerization method. Chemical Engineering Journal, 2019, 361, 897-907.	12.7	86
743	Flexible lead-free oxide film capacitors with ultrahigh energy storage performances in extremely wide operating temperature. Nano Energy, 2019, 57, 519-527.	16.0	75
744	Coating and laminating processes and techniques for textiles. , 2019, , 11-45.		13
745	Flexible Electronics: Stretchable Electrodes and Their Future. Advanced Functional Materials, 2019, 29, 1805924.	14.9	510

#	ARTICLE	IF	CITATIONS
746	Stimuli-Responsive Membranes for Separations. <i>Polymers and Polymeric Composites</i> , 2019, , 1-18.	0.6	0
747	Stretchable fiber-shaped lithium metal anode. <i>Energy Storage Materials</i> , 2019, 22, 179-184.	18.0	65
748	Inkjet Printing of Reactive Silver Ink on Textiles. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 6208-6216.	8.0	141
749	Self-Powered Motion-Driven Triboelectric Electroluminescence Textile System. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 5200-5207.	8.0	72
750	Flexible Multifunctional Sensors for Wearable and Robotic Applications. <i>Advanced Materials Technologies</i> , 2019, 4, 1800626.	5.8	221
751	Encapsulated Textile Organic Solar Cells Fabricated by Spray Coating. <i>ChemistrySelect</i> , 2019, 4, 407-412.	1.5	40
752	Ultrathin Fully Printed Light-Emitting Electrochemical Cells with Arbitrary Designs on Biocompatible Substrates. <i>Advanced Materials Technologies</i> , 2019, 4, 1800641.	5.8	45
753	Effects of water on ionic liquid electrochemical microsensor for oxygen sensing. <i>Sensors and Actuators B: Chemical</i> , 2019, 285, 350-357.	7.8	7
754	3D printed electronic materials and devices. , 2019, , 309-334.		11
755	Modeling and analysis of the effect of substrate on the flexible piezoelectric films for kinetic energy harvesting from textiles. <i>Journal of Composite Materials</i> , 2019, 53, 3349-3361.	2.4	14
756	Green hybrid power system based on triboelectric nanogenerator for wearable/portable electronics. <i>Nano Energy</i> , 2019, 55, 151-163.	16.0	129
757	The design, fabrication, and applications of flexible biosensing devices. <i>Biosensors and Bioelectronics</i> , 2019, 124-125, 96-114.	10.1	124
758	A Water-Soluble Ink Based on Diamine Silver(I) Carbonate, Ammonium Formate, and Polyols for Inkjet Printing of Conductive Patterns. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 178-182.	2.0	7
759	Fabrication of low cost and scalable carbon-based conductive ink for E-textile applications. <i>Materials Today Communications</i> , 2019, 19, 32-38.	1.9	33
760	Roll-to-roll electrochemical fabrication of non-polarizable silver/silver chloride-coated nylon yarn for biological signal monitoring. <i>Textile Research Journal</i> , 2019, 89, 3591-3600.	2.2	3
761	Ultrathin Conformable Organic Artificial Synapse for Wearable Intelligent Device Applications. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 1071-1080.	8.0	106
762	Manufacturing methods of stretchable liquid metal-based antenna. <i>Microsystem Technologies</i> , 2019, 25, 3175-3184.	2.0	15
763	Stretchable Aqueous Batteries: Progress and Prospects. <i>ACS Energy Letters</i> , 2019, 4, 177-186.	17.4	96

#	ARTICLE	IF	CITATIONS
764	Processable Thermally Conductive Polyurethane Composite Fibers. <i>Macromolecular Materials and Engineering</i> , 2019, 304, 1800542.	3.6	24
765	Toward Programmable Materials for Wearable Electronics: Electrical Welding Turns Sensors into Conductors. <i>Advanced Electronic Materials</i> , 2019, 5, 1800273.	5.1	6
766	Smart medical device selection based on intuitionistic fuzzy Choquet integral. <i>Soft Computing</i> , 2019, 23, 10085-10103.	3.6	43
767	Wearable Devices for Precision Medicine and Health State Monitoring. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 1242-1258.	4.2	102
768	The impact of different proportions of knitting elements on the resistive properties of conductive fabrics. <i>Textile Research Journal</i> , 2019, 89, 881-890.	2.2	12
769	Wearable and flexible electronics for continuous molecular monitoring. <i>Chemical Society Reviews</i> , 2019, 48, 1465-1491.	38.1	855
770	Rational Design of Capacitive Pressure Sensors Based on Pyramidal Microstructures for Specialized Monitoring of Biosignals. <i>Advanced Functional Materials</i> , 2020, 30, 1903100.	14.9	265
772	Stretchability of PMMA-supported CVD graphene and of its electrical contacts. <i>2D Materials</i> , 2020, 7, 014003.	4.4	17
773	Onâ€œBody Bioelectronics: Wearable Biofuel Cells for Bioenergy Harvesting and Selfâ€œPowered Biosensing. <i>Advanced Functional Materials</i> , 2020, 30, 1906243.	14.9	134
774	Recent Advances in 1D Stretchable Electrodes and Devices for Textile and Wearable Electronics: Materials, Fabrications, and Applications. <i>Advanced Materials</i> , 2020, 32, e1902532.	21.0	219
775	Design and experimental evaluation of a novel onâ€œbody textile antenna for unicast applications. <i>Microwave and Optical Technology Letters</i> , 2020, 62, 789-799.	1.4	16
776	Regulating Electrical Cue and Mechanotransduction in Topological Gradient Structure Modulated Piezoelectric Scaffolds to Predict Neural Cell Response. <i>Advanced Functional Materials</i> , 2020, 30, 1907330.	14.9	33
777	Sol-gel approach to incorporate millimeter-long carbon nanotubes into fabrics for the development of electrical-conductive textiles. <i>Materials Chemistry and Physics</i> , 2020, 240, 122218.	4.0	23
778	Organic Photodetectors for Nextâ€œGeneration Wearable Electronics. <i>Advanced Materials</i> , 2020, 32, e1902045.	21.0	401
779	Smart Textileâ€œIntegrated Microelectronic Systems for Wearable Applications. <i>Advanced Materials</i> , 2020, 32, e1901958.	21.0	427
780	Application Challenges in Fiber and Textile Electronics. <i>Advanced Materials</i> , 2020, 32, e1901971.	21.0	273
781	1D Supercapacitors for Emerging Electronics: Current Status and Future Directions. <i>Advanced Materials</i> , 2020, 32, e1902387.	21.0	158
782	Fiber/Fabricâ€œBased Piezoelectric and Triboelectric Nanogenerators for Flexible/Stretchable and Wearable Electronics and Artificial Intelligence. <i>Advanced Materials</i> , 2020, 32, e1902549.	21.0	826

#	ARTICLE	IF	CITATIONS
783	Advanced materials of printed wearables for physiological parameter monitoring. <i>Materials Today</i> , 2020, 32, 147-177.	14.2	110
784	Engineering design in the textile and garment industry. , 2020, , 85-117.		0
785	Hybrid materials with carbon nanotubes for gas sensing. , 2020, , 185-222.		6
786	Additive Manufacturing of Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 1906244.	14.9	176
787	Textile-Based Strain Sensor for Human Motion Detection. <i>Energy and Environmental Materials</i> , 2020, 3, 80-100.	12.8	159
788	Graphene-based fiber sensors with high stretchability and sensitivity by direct ink extrusion. <i>2D Materials</i> , 2020, 7, 015025.	4.4	18
789	One-step synthesis of Ag nanoparticles for fabricating highly conductive patterns using infrared sintering. <i>Journal of Materials Research and Technology</i> , 2020, 9, 142-151.	5.8	18
791	Wearable electroencephalography technologies for brain-computer interfacing. , 2020, , 55-78.		11
792	Green Biocomposites for Thermoelectric Wearable Applications. <i>Advanced Functional Materials</i> , 2020, 30, 1907301.	14.9	74
793	Recent Advances in Fiber-Shaped Supercapacitors and Lithium-Ion Batteries. <i>Advanced Materials</i> , 2020, 32, e1902779.	21.0	142
794	Protocol to assess the quality of transmission lines within smart textile structures. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020, 152, 107194.	5.0	18
795	Graphite platelet films deposited by spray technique on low density polyethylene substrates. <i>Materials Today: Proceedings</i> , 2020, 20, 87-90.	1.8	5
796	Flexible and Adaptable Fuel Cell Pack with High Energy Density Realized by a Bifunctional Catalyst. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 4473-4481.	8.0	19
797	V ₂ O ₅ Textile Cathodes with High Capacity and Stability for Flexible Lithium-Ion Batteries. <i>Advanced Materials</i> , 2020, 32, e1906205.	21.0	107
798	Fibertronic Organic Light-Emitting Diodes toward Fully Addressable, Environmentally Robust, Wearable Displays. <i>ACS Nano</i> , 2020, 14, 1133-1140.	14.6	60
799	Flexible Electrode Based on MWCNT Embedded in a Cross-Linked Acrylamide/Alginate Blend: Conductivity vs. Stretching. <i>Polymers</i> , 2020, 12, 181.	4.5	15
800	Selective stamping of laser scribed rGO nanofilms: from sensing to multiple applications. <i>2D Materials</i> , 2020, 7, 024006.	4.4	10
801	Flexible binder-free hierarchical copper sulfide/carbon cloth hybrid supercapacitor electrodes and the application as negative electrodes in asymmetric supercapacitor. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 2145-2152.	2.2	23

#	ARTICLE	IF	CITATIONS
802	An investigation of a washable and durable solar energy harvesting textile. Progress in Photovoltaics: Research and Applications, 2020, 28, 578-592.	8.1	47
803	Density Functional Theory Study of Epitaxially Strained Monolayer Transition Metal Chalcogenides for Piezoelectricity Generation. ACS Applied Nano Materials, 2020, 3, 384-390.	5.0	13
804	Production of conductive bacterial cellulose-polyaniline membranes in the presence of metal salts. Textile Research Journal, 2020, 90, 1517-1526.	2.2	9
805	Washable and flexible screen printed graphene electrode on textiles for wearable healthcare monitoring. Journal Physics D: Applied Physics, 2020, 53, 125402.	2.8	58
806	Carbon Nanotube-Based Piezoresistive Sensors Fabricated by Microwave Irradiation. Advanced Engineering Materials, 2020, 22, 1901068.	3.5	16
807	Touch-Interactive Flexible Sustainable Energy Harvester and Self-Powered Smart Card. Advanced Functional Materials, 2020, 30, 1908994.	14.9	16
808	Foldable and washable fully textile-based pressure sensor. Smart Materials and Structures, 2020, 29, 055010.	3.5	26
809	Hierarchically Structured Nitrogen-Doped Multilayer Reduced Graphene Oxide for Flexible Intercalated Supercapacitor Electrodes. ACS Applied Energy Materials, 2020, 3, 987-997.	5.1	27
810	Stable Wearable Strain Sensors on Textiles by Direct Laser Writing of Graphene. ACS Applied Nano Materials, 2020, 3, 283-293.	5.0	73
812	Electrically conducting polyaniline smart coatings and thin films for industrial applications. , 2020, , 585-617.		7
813	Multiscale Disordered Porous Fibers for Self-Sensing and Self-Cooling Integrated Smart Sportswear. ACS Nano, 2020, 14, 559-567.	14.6	162
814	3D printed nanomaterial-based electronic, biomedical, and bioelectronic devices. Nanotechnology, 2020, 31, 172001.	2.6	52
815	Embroidered Rectangular Split-Ring Resonators for the Characterization of Dielectric Materials. IEEE Sensors Journal, 2020, 20, 2434-2439.	4.7	11
816	Continuous wet-spinning of flexible and water-stable conductive PEDOT: PSS/PVA composite fibers for wearable sensors. Composites Communications, 2020, 17, 134-140.	6.3	70
817	Electrode Engineering by Atomic Layer Deposition for Sodium-Ion Batteries: From Traditional to Advanced Batteries. Advanced Functional Materials, 2020, 30, 1906890.	14.9	36
818	Development of Conductive Fabrics by Using Silver Nanoparticles for Electronic Applications. Journal of Electronic Materials, 2020, 49, 1330-1337.	2.2	20
819	Substrate Diameter-Dependent Photovoltaic Performance of Flexible Fiber-Type Dye-Sensitized Solar Cells with TiO ₂ Nanoparticle/TiO ₂ Nanotube Array Photoanodes. Nanomaterials, 2020, 10, 13.	4.1	13
820	Recent Advances of Wearable Antennas in Materials, Fabrication Methods, Designs, and Their Applications: State-of-the-Art. Micromachines, 2020, 11, 888.	2.9	54

#	ARTICLE	IF	CITATIONS
821	Sustainable Advanced Manufacturing of Printed Electronics: An Environmental Consideration. , 0, , .		6
822	Wearable strain sensors enabled by integrating one-dimensional polydopamine-enhanced graphene/polyurethane sensing fibers into textile structures. Journal of Materials Science, 2020, 55, 17266-17283.	3.7	9
823	Digitalization and the Indian Textiles Sector: A Critical Analysis. FIIB Business Review, 2020, , 231971452096186.	3.1	4
824	Robotizing fabric by integrating functional fibers. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 25360-25369.	7.1	51
825	A survey of research trends in assistive technologies using information modelling techniques. Disability and Rehabilitation: Assistive Technology, 2022, 17, 605-623.	2.2	14
826	Development of functional knitted fabrics using yarn composed of polypyrrole coated cotton fibers. Journal of Industrial Textiles, 2022, 51, 2163S-2180S.	2.4	7
827	Tailoring of Durable Conductive and UV-Shielding Properties on Cotton and Polyester Fabrics by PEDOT:PSS Screen-Printing. Polymers, 2020, 12, 2356.	4.5	13
828	Printed, flexible, compact UHF-RFID sensor tags enabled by hybrid electronics. Scientific Reports, 2020, 10, 16543.	3.3	54
829	The Potential of Graphene Nanoplatelets in the Development of Smart and Multifunctional Ecocomposites. Polymers, 2020, 12, 2189.	4.5	36
830	Boosted Electrochemical Performance of Honeycomb-Like NiCu@LDH Nanosheets Anchoring on NiCo ₂ S ₄ Nanotube Arrays for Flexible Solid-State Hybrid Supercapacitors. Energy & Fuels, 2020, 34, 13157-13166.	5.1	26
831	A carbene stabilized precursor for the spatial atomic layer deposition of copper thin films. Chemical Communications, 2020, 56, 13752-13755.	4.1	12
832	Assessing Current-Carrying Capacity of Aerosol Jet Printed Conductors. Advanced Engineering Materials, 2020, 22, 2000520.	3.5	16
833	Rippled Metallic Nanowire/Graphene/Semiconductor Nanostack for a Gate-Tunable Ultrahigh-Performance Stretchable Phototransistor. Advanced Optical Materials, 2020, 8, 2000859.	7.3	5
834	Modeling Fabric Movement for Future E-Textile Sensors. Sensors, 2020, 20, 3735.	3.8	4
835	SnapKia™ An Inertial Easy-to-Adapt Wearable Textile Device for Movement Quantification of Neurological Patients. Sensors, 2020, 20, 3875.	3.8	3
836	High-efficiency super-elastic liquid metal based triboelectric fibers and textiles. Nature Communications, 2020, 11, 3537.	12.8	175
837	Highly Sensitive, Low Hysteretic and Flexible Strain Sensor Based on Ecoflex-AgNWs- MWCNTs Flexible Composite Materials. IEEE Sensors Journal, 2020, 20, 14118-14125.	4.7	29
838	Smart conductive textile. , 2020, , 141-167.		6

#	ARTICLE	IF	CITATIONS
839	Energy storage textile. , 2020, , 493-529.		3
840	Challenges in Design and Fabrication of Flexible/Stretchable Carbon- and Textile-Based Wearable Sensors for Health Monitoring: A Critical Review. Sensors, 2020, 20, 3927.	3.8	65
841	A wearable system for knee flexion/extension monitoring: design and assessment. , 2020, , .		6
842	Photoâ€Curable Ionâ€Enhanced Fluorinated Elastomers for Pressureâ€Sensitive Textiles. Advanced Intelligent Systems, 2020, 2, 1900180.	6.1	7
843	Violent activity recognition by E-textile sensors based on machine learning methods. Journal of Intelligent and Fuzzy Systems, 2020, 39, 8115-8123.	1.4	8
844	Glow-in-the-Dark Patterned PET Nonwoven Using Air-Atmospheric Plasma Treatment and Vitamin B2-Derivative (FMN). Sensors, 2020, 20, 6816.	3.8	1
845	Micro/nanofiber-based noninvasive devices for health monitoring diagnosis and rehabilitation. Applied Physics Reviews, 2020, 7, .	11.3	46
846	Advances in Wearable Sensors: Signalling the Provenance of Garments Using Radio Frequency Watermarks. Sensors, 2020, 20, 6661.	3.8	1
847	Polyaramid-Based Flexible Antibacterial Coatings Fabricated Using Laser-Induced Carbonization and Copper Electroplating. ACS Applied Materials & Interfaces, 2020, 12, 53193-53205.	8.0	20
848	Microengineering Pressure Sensor Active Layers for Improved Performance. Advanced Functional Materials, 2020, 30, 2003491.	14.9	290
849	Microfluidics by Additive Manufacturing for Wearable Biosensors: A Review. Sensors, 2020, 20, 4236.	3.8	41
850	3D Printed Soft Pneumatic Bending Sensing Chambers for Bilateral and Remote Control of Soft Robotic Systems. , 2020, , .		4
851	Evaluation of NFC-Enabled Devices for Heterogeneous Wearable Biomedical Application. IEEE Journal of Radio Frequency Identification, 2020, 4, 373-383.	2.3	14
852	A Highly Sensitive, Reliable, and Highâ€Temperatureâ€Resistant Flexible Pressure Sensor Based on Ceramic Nanofibers. Advanced Science, 2020, 7, 2000258.	11.2	91
853	Multi-Modal Contractive Forces of Wools as Actuator. Polymers, 2020, 12, 1464.	4.5	6
854	Towards Truly Wearable Systems: Optimizing and Scaling Up Wearable Triboelectric Nanogenerators. IScience, 2020, 23, 101360.	4.1	65
855	E-textile Piano Fabricated using Several Textile Technologies. , 2020, , .		2
856	Surface Silanization of Polyimide for Autocatalytic Metallization. Jom, 2020, 72, 3529-3537.	1.9	6

#	ARTICLE	IF	CITATIONS
857	Development of a multifunctional graphene/Fe-loaded polyester textile: robust electrical and catalytic properties. Dalton Transactions, 2020, 49, 17281-17300.	3.3	14
858	Screen Printing of Cotton Fabric with Hydrochromic Paste: Evaluation of Color Uniformity, Reversibility and Fastness Properties. Journal of Natural Fibers, 2022, 19, 2694-2705.	3.1	5
859	Micron-scale experimental-numerical characterization of metal-polymer interface delamination in stretchable electronics interconnects. International Journal of Solids and Structures, 2020, 204-205, 52-64.	2.7	9
860	Ultrasonic doping and photo-reduction of graphene oxide films for flexible and high-performance electrothermal heaters. FlatChem, 2020, 24, 100199.	5.6	14
861	Effects of fabrication materials and methods on flexible resonant sensor signal quality. Extreme Mechanics Letters, 2020, 41, 101027.	4.1	8
862	Smart Bedsheet for Baby Monitoring Application: Measurement and Characterization Results. , 2020, 2020, 4402-4405.		2
863	Human activity detection using machine learning methods from wearable sensors. Sensor Review, 2020, 40, 591-603.	1.8	19
864	IEEE Electron Device Letters. IEEE Electron Device Letters, 2020, 41, C2-C2.	3.9	0
865	SmartWatch as a Kinaesthetic System for Shoulder Function Assessment. , 2020, , .		1
866	Cotton Fabrics Coated with Few-Layer Graphene as Highly Responsive Surface Heaters and Integrated Lightweight Electronic-Textile Circuits. ACS Applied Nano Materials, 2020, 3, 9771-9783.	5.0	32
867	All-organic, conductive and biodegradable yarns from core-shell nanofibers through electrospinning. RSC Advances, 2020, 10, 32875-32884.	3.6	7
868	Prediction of Gait Cycle Percentage Using Instrumented Shoes with Artificial Neural Networks. , 2020, , .		12
869	Seamlessly knitted stretchable comfortable textile triboelectric nanogenerators for E-textile power sources. Nano Energy, 2020, 78, 105327.	16.0	97
870	Artificial iris performance for smart contact lens vision correction applications. Scientific Reports, 2020, 10, 14641.	3.3	22
871	Design and Initial Testing of an Affordable and Accessible Smart Compression Garment to Measure Physical Activity Using Conductive Paint Stretch Sensors. Multimodal Technologies and Interaction, 2020, 4, 45.	2.5	2
872	Benchmarking of Inkjet Printing Methods for Combined Throughput and Performance. Advanced Engineering Materials, 2020, 22, 2000679.	3.5	6
873	Reduced Graphene Oxide and Nanoparticles Incorporated Durable Electroconductive Silk Fabrics. Advanced Materials Interfaces, 2020, 7, 2000814.	3.7	40
874	Re-stickable All-Solid-State Supercapacitor Supported by Cohesive Thermoplastic for Textile Electronics. ACS Applied Materials & Interfaces, 2020, 12, 45322-45331.	8.0	11

#	ARTICLE	IF	CITATIONS
875	Stable Hydrogel Electrolytes for Flexible and Submarine-Use Zn-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 46005-46014.	8.0	87
876	Signal transfer via smart conductive networks for high temperature performing wearable electronics. Journal of Materials Science: Materials in Electronics, 2020, 31, 15996-16007.	2.2	1
877	Direct Electrospun Cellulose-based Conductive Nanofibres for Electronic Textiles. , 2020, , .		1
878	Fluid/Fiber Interactions and the Conductivity of Inkjet Printed Ag on Textile Substrates. ACS Applied Materials & Interfaces, 2020, 12, 45516-45524.	8.0	12
879	Water-Resistant Mechanoluminescent Electrospun Fabrics with Protected Sensitivity in Wet Condition via Plasma-Enhanced Chemical Vapor Deposition Process. Polymers, 2020, 12, 1720.	4.5	5
880	Water-Based Graphene Inks for All-Printed Temperature and Deformation Sensors. ACS Applied Electronic Materials, 2020, 2, 2857-2867.	4.3	32
881	Scalable Process to Develop Durable Conductive Cotton Fabric. Advanced Fiber Materials, 2020, 2, 291-301.	16.1	19
882	Screen Printed Flexible Water Activated Battery on Woven Cotton Textile as a Power Supply for E-Textile Applications. IEEE Access, 2020, 8, 206958-206965.	4.2	9
883	Smart polymeric materials applied to industry 4.0: A review on electrochromic textiles. AIP Conference Proceedings, 2020, , .	0.4	0
884	A Bedsheet for Baby Monitoring at Night: Measurement and Characterization Results. , 2020, , .		1
885	Highly-Sensitive Textile Pressure Sensors Enabled by Suspended-Type All Carbon Nanotube Fiber Transistor Architecture. Micromachines, 2020, 11, 1103.	2.9	9
886	Performance Evaluation of Knitted and Stitched Textile Strain Sensors. Sensors, 2020, 20, 7236.	3.8	25
887	A Fabric-Based Textile Stretch Sensor for Optimized Measurement of Strain in Clothing. Sensors, 2020, 20, 7323.	3.8	10
888	Wearable Biosensors for Body Computing. Advanced Functional Materials, 2021, 31, 2008087.	14.9	56
889	Application and technologies for textile sensors production used in pressure distribution measurement - a critical review. E3S Web of Conferences, 2020, 207, 03001.	0.5	2
890	Inkjet printing for flexible and wearable electronics. APL Materials, 2020, 8, .	5.1	89
891	A Robust Wearable Unique-Logo Wideband Antenna for 5G Applications. , 2020, , .		2
892	Effects of smart garments on the well-being of athletes: a scoping review protocol. BMJ Open, 2020, 10, e042127.	1.9	5

#	ARTICLE	IF	CITATIONS
893	Integration of Conductive Materials with Textile Structures, an Overview. Sensors, 2020, 20, 6910.	3.8	48
894	Wearable Organic Light-Emitting Diode Displays •From Fibers to Textiles. Digest of Technical Papers SID International Symposium, 2020, 51, 1149-1151.	0.3	0
895	Preliminary investigation into low-cost stretch sensors for stomach deformation measurement. , 2020, , .		1
896	Flame-Retardant Textile-Based Triboelectric Nanogenerators for Fire Protection Applications. ACS Nano, 2020, 14, 15853-15863.	14.6	133
897	A Review of Solar Energy Harvesting Electronic Textiles. Sensors, 2020, 20, 5938.	3.8	37
898	Stretchable Coplanar Self-Charging Power Textile with Resist-Dyeing Triboelectric Nanogenerators and Microsupercapacitors. ACS Nano, 2020, 14, 5590-5599.	14.6	94
899	Electrochemical modeling and evaluation for textile electrodes to skin. BioMedical Engineering OnLine, 2020, 19, 30.	2.7	9
900	Cellulose nanofiber based flexible N-doped carbon mesh for energy storage electrode with super folding endurance. Materials Today Energy, 2020, 17, 100441.	4.7	9
901	Direct current contact-mode triboelectric nanogenerators via systematic phase shifting. Nano Energy, 2020, 75, 104887.	16.0	34
902	Triboelectric nanogenerators with porous and hierarchically structured silk fibroin films via water electrospray-etching technology. Nano Energy, 2020, 75, 104974.	16.0	33
903	Schottky-Contacted Nanowire Sensors. Advanced Materials, 2020, 32, e2000130.	21.0	108
904	Mechanoresponsive Self-Assembled Perylene Bisimide Films. Chemistry - A European Journal, 2020, 26, 9879-9882.	3.3	4
905	Mechanical and Electrical Behavior of Printed Silver Conductor in Adaptive Curvature Flexure Test. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2020, 10, 806-816.	2.5	12
906	Direct-write printing process of conductive paste on fiber bulks for wearable textile heaters. Smart Materials and Structures, 2020, 29, 085018.	3.5	18
907	Well-organized organosilane composites for adhesion enhancement of heterojunctions. Composites Science and Technology, 2020, 193, 108135.	7.8	30
910	The electrical properties of poly(3,4-ethylenedioxythiophene)-poly(styrenesulfonate) films and its effect onto sensor yarn coating. Journal of Industrial Textiles, 2020, , 152808372092484.	2.4	0
911	Highly Selective Metal-Organic Framework Textile Humidity Sensor. ACS Applied Materials & Interfaces, 2020, 12, 29999-30006.	8.0	38
912	Position Control of a 3D Printed Soft Finger with Integrated Soft Pneumatic Sensing Chambers. , 2020, , .		10

#	ARTICLE	IF	CITATIONS
913	Ultra-flexible, stretchable, highly conductive and multi-functional textiles enabled by brush-painted PEDOT:PSS. <i>Smart Materials and Structures</i> , 2020, 29, 095002.	3.5	10
914	Fully-Textile Seam-Line Sensors for Facile Textile Integration and Tunable Multi-Modal Sensing of Pressure, Humidity, and Wetness. <i>Advanced Materials Technologies</i> , 2020, 5, 2000155.	5.8	14
915	Highly elastic capacitive pressure sensor based on smart textiles for full-range human motion monitoring. <i>Sensors and Actuators A: Physical</i> , 2020, 314, 112029.	4.1	60
916	Mechanical and High-Frequency Electrical Study of Printed, Flexible Antenna Under Deformation. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2020, 10, 1088-1100.	2.5	9
917	Soft Materials for Wearable/Flexible Electrochemical Energy Conversion, Storage, and Biosensor Devices. <i>Materials</i> , 2020, 13, 2733.	2.9	29
918	Design, fabrication, and measurement of textile-based frequency selective surfaces. <i>Microwave and Optical Technology Letters</i> , 2020, 62, 3444-3450.	1.4	9
919	Printing electronics directly onto carbon fiber composites: unmanned aerial vehicle (UAV) wings with integrated heater for de-icing. <i>Engineering Research Express</i> , 2020, 2, 025022.	1.6	16
920	Recent progress in self-healable ion gels. <i>Science and Technology of Advanced Materials</i> , 2020, 21, 388-401.	6.1	24
921	Intelligent Technical Textiles Based on Fiber Bragg Gratings for Strain Monitoring. <i>Sensors</i> , 2020, 20, 2951.	3.8	2
922	Bio-Inspired Stretchable, Adhesive, and Conductive Structural Color Film for Visually Flexible Electronics. <i>Advanced Functional Materials</i> , 2020, 30, 2000151.	14.9	153
923	Conductive Coatings of Cotton Fabric Consisting of Carbonized Charcoal for E-Textile. <i>Coatings</i> , 2020, 10, 579.	2.6	15
924	Direct Current Fabric Triboelectric Nanogenerator for Biomotion Energy Harvesting. <i>ACS Nano</i> , 2020, 14, 4585-4594.	14.6	170
925	Smart Textile-Based Personal Thermal Comfort Systems: Current Status and Potential Solutions. <i>Advanced Materials Technologies</i> , 2020, 5, 1901155.	5.8	82
926	Futuristic Clothes: Electronic Textiles and Wearable Technologies. <i>Global Challenges</i> , 2020, 4, 1900092.	3.6	121
927	All Solid-State Coaxial Supercapacitor with Ultrahigh Scan Rate Operability of 250 000 mV/s by Thermal Engineering of the Electrode-Electrolyte Interface. <i>ACS Applied Energy Materials</i> , 2020, 3, 3454-3464.	5.1	17
928	Sim-To-Real Transfer Learning Approach for Tracking Multi-DOF Ankle Motions Using Soft Strain Sensors. <i>IEEE Robotics and Automation Letters</i> , 2020, 5, 3525-3532.	5.1	9
930	Stable and durable laser-induced graphene patterns embedded in polymer substrates. <i>Carbon</i> , 2020, 163, 85-94.	10.3	66
931	Review-Flexible and Stretchable Electrochemical Sensing Systems: Materials, Energy Sources, and Integrations. <i>Journal of the Electrochemical Society</i> , 2020, 167, 037573.	2.9	74

#	ARTICLE	IF	CITATIONS
933	All-organic flexible fabric antenna for wearable electronics. Journal of Materials Chemistry C, 2020, 8, 5662-5667.	5.5	43
934	Elastic conducting polymer composites in thermoelectric modules. Nature Communications, 2020, 11, 1424.	12.8	134
935	Smart Textiles for Electricity Generation. Chemical Reviews, 2020, 120, 3668-3720.	47.7	644
936	Space vector modulation based switching schemes for high frequency link matrix rectifier in discontinuous conduction mode. IET Power Electronics, 2020, 13, 703-712.	2.1	0
937	Wearable Antennas for Cross-Body Communication and Human Activity Recognition. IEEE Access, 2020, 8, 58575-58584.	4.2	24
938	Foldable, Eco-Friendly and Easy Go Designed Paper Based Supercapacitor: Energy storage Device. , 2020, , .		7
939	Attentive Relational State Representation in Decentralized Multiagent Reinforcement Learning. IEEE Transactions on Cybernetics, 2022, 52, 252-264.	9.5	8
940	Piezofibers to smart textiles: a review on recent advances and future outlook for wearable technology. Journal of Materials Chemistry A, 2020, 8, 9496-9522.	10.3	102
941	PEDOT:PSS-Based Conductive Textiles and Their Applications. Sensors, 2020, 20, 1881.	3.8	118
942	Design and Testing of a Textile EMG Sensor for Prosthetic Control. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2020, , 37-51.	0.3	2
943	Optimization of Reduced GO-Based Cotton Electrodes for Wearable Electrocardiography. IEEE Sensors Journal, 2020, 20, 7774-7782.	4.7	12
944	An ultra-thin, flexible, low-cost and scalable gas diffusion layer composed of carbon nanotubes for high-performance fuel cells. Journal of Materials Chemistry A, 2020, 8, 5986-5994.	10.3	43
946	Flexible fabric gas sensors based on PANI/WO ₃ p-n heterojunction for high performance NH ₃ detection at room temperature. Science China Materials, 2020, 63, 2028-2039.	6.3	50
947	Evaluation of Electrical Properties of Metalized Woven and Non-woven Polymer-Based Textiles. , 2020, , .		0
948	Simpler Learning of Robotic Manipulation of Clothing by Utilizing DIY Smart Textile Technology. Applied Sciences (Switzerland), 2020, 10, 4088.	2.5	4
949	Soldering Electronics to Smart Textiles by Pulsed Nd:YAG Laser. Materials, 2020, 13, 2429.	2.9	9
950	Antistatic Fibers for High-Visibility Workwear: Challenges of Melt-Spinning Industrial Fibers. Materials, 2020, 13, 2645.	2.9	10
951	Edible and Nutritive Electronics: Materials, Fabrications, Components, and Applications. Advanced Materials Technologies, 2020, 5, 2000100.	5.8	37

#	ARTICLE	IF	CITATIONS
952	Advances in Sweat Wearables: Sample Extraction, Real-Time Biosensing, and Flexible Platforms. ACS Applied Materials & Interfaces, 2020, 12, 34337-34361.	8.0	72
953	Screen-Printed Electrodes: Promising Paper and Wearable Transducers for (Bio)Sensing. Biosensors, 2020, 10, 76.	4.7	62
954	A 1-D Yarn-Based Biobattery for Scalable Power Generation in 2-D and 3-D Structured Textiles. Journal of Microelectromechanical Systems, 2020, 29, 1064-1068.	2.5	0
955	Multiobjective Evolution of Fuzzy Rough Neural Network via Distributed Parallelism for Stock Prediction. IEEE Transactions on Fuzzy Systems, 2020, 28, 939-952.	9.8	147
956	Electronic Component Mounting for Durable E-Textiles: Direct Soldering of Components onto Textile-Based Deeply Permeated Conductive Patterns. Micromachines, 2020, 11, 209.	2.9	23
957	Progress and challenges of flexible lithium ion batteries. Journal of Power Sources, 2020, 454, 227932.	7.8	89
958	Improving the washability of smart textiles: influence of different washing conditions on textile integrated conductor tracks. Journal of the Textile Institute, 2020, 111, 1766-1777.	1.9	32
959	Textile-Based Inductive Soft Strain Sensors for Fast Frequency Movement and Their Application in Wearable Devices Measuring Multiaxial Hip Joint Angles during Running. Advanced Intelligent Systems, 2020, 2, 1900165.	6.1	26
960	Designing and investigation of braided-cum-woven structure for wearable heating textile. Engineering Research Express, 2020, 2, 015003.	1.6	21
961	Tunable Color Coating of E-Textiles by Atomic Layer Deposition of Multilayer $\text{TiO}_2/\text{Al}_2\text{O}_3$ Films. Langmuir, 2020, 36, 2794-2801.	3.5	17
962	Advances in Liquid Metal-Enabled Flexible and Wearable Sensors. Micromachines, 2020, 11, 200.	2.9	78
963	Integrated wearable sensors with bending/stretching selectivity and extremely enhanced sensitivity derived from agarose-based ionic conductor and its 3D-shaping. Chemical Engineering Journal, 2020, 389, 124503.	12.7	16
964	Canopy-Based Monte Carlo Localization in Orchards Using Top-View Imagery. IEEE Robotics and Automation Letters, 2020, 5, 2403-2410.	5.1	10
965	SbSI Composites Based on Epoxy Resin and Cellulose for Energy Harvesting and Sensors—The Influence of SBSI Nanowires Conglomeration on Piezoelectric Properties. Materials, 2020, 13, 902.	2.9	15
966	Highly Stretchable and Sensitive SBS/Graphene Composite Fiber for Strain Sensors. Macromolecular Materials and Engineering, 2020, 305, 1900736.	3.6	47
967	All-Polymer Conducting Fibers and 3D Prints via Melt Processing and Templated Polymerization. ACS Applied Materials & Interfaces, 2020, 12, 8713-8721.	8.0	37
968	Multifunctional Stretchable Conductive Woven Fabric Containing Metal Wire with Durable Structural Stability and Electromagnetic Shielding in the X-Band. Polymers, 2020, 12, 399.	4.5	7
969	Transparent carbon nanotube web structures with Ni-Pd nanoparticles for electromagnetic interference (EMI) shielding of advanced display devices. Applied Surface Science, 2020, 516, 145745.	6.1	28

#	ARTICLE	IF	CITATIONS
970	Recent advances in fiber-shaped and planar-shaped textile solar cells. Nano Energy, 2020, 71, 104609.	16.0	73
971	A Crowdsourcing Framework for On-Device Federated Learning. IEEE Transactions on Wireless Communications, 2020, 19, 3241-3256.	9.2	175
972	Computational generation and conformal fabrication of woven fabric structures by harmonic foliation. Computer Methods in Applied Mechanics and Engineering, 2020, 363, 112874.	6.6	5
973	Fabrication of an imperceptible liquid metal electrode for triboelectric nanogenerator based on gallium alloys by contact printing. Applied Surface Science, 2020, 509, 145353.	6.1	32
974	Wearable device for thermotherapies. , 2020, , 179-200.		5
975	Conductive and Elastic 3D Helical Fibers for Use in Washable and Wearable Electronics. Advanced Materials, 2020, 32, e1907495.	21.0	72
976	Reviewâ€”Textile Based Chemical and Physical Sensors for Healthcare Monitoring. Journal of the Electrochemical Society, 2020, 167, 037546.	2.9	115
977	Conductive textiles prepared by spray coating of water-based graphene dispersions. RSC Advances, 2020, 10, 2396-2403.	3.6	26
978	Functional Fibers, Composites and Textiles Utilizing Photothermal and Joule Heating. Polymers, 2020, 12, 189.	4.5	36
979	Optimal Design of an Islanded Microgrid With Load Shifting Mechanism Between Electrical and Thermal Energy Storage Systems. IEEE Transactions on Power Systems, 2020, 35, 2642-2657.	6.5	53
980	Flexible Iridium Oxide Based pH Sensor Integrated With Inductively Coupled Wireless Transmission System for Wearable Applications. IEEE Sensors Journal, 2020, 20, 5130-5138.	4.7	21
981	Ultrawideband Textile Antenna for Wearable Microwave Medical Imaging Applications. IEEE Transactions on Antennas and Propagation, 2020, 68, 4238-4249.	5.1	84
982	Textile-Integrated Thermocouples for Temperature Measurement. Materials, 2020, 13, 626.	2.9	21
983	Mechanical analysis and design of flexible beads-and-thread lithium-ion battery. Extreme Mechanics Letters, 2020, 37, 100717.	4.1	6
985	A novel yarn spinning method for fabricating conductive and nanofiber-coated hybrid yarns. Journal of Industrial Textiles, 2020, , 152808372091441.	2.4	3
986	Acoustically Excited Micro Mass Transport for Remotely Dose-Controlable Drug Releasing. , 2020, , .		0
987	Novel Graphene Planar Architecture with Ultrahigh Stretchability and Sensitivity. ACS Applied Materials & Interfaces, 2020, 12, 18913-18923.	8.0	12
988	Capabilities and limitations of 3D printed microserpentine and integrated 3D electrodes for stretchable and conformable biosensor applications. Microsystems and Nanoengineering, 2020, 6, 15.	7.0	31

#	ARTICLE	IF	CITATIONS
989	Fish-inspired anti-icing hydrogel sensors with low-temperature adhesion and toughness. Journal of Materials Chemistry A, 2020, 8, 9373-9381.	10.3	90
990	Large-area 2D TMD layers for mechanically reconfigurable electronic devices. Journal Physics D: Applied Physics, 2020, 53, 313002.	2.8	22
991	The effect of bending on laser-cut electro-textile inductors and capacitors attached on denim as wearable structures. Textile Research Journal, 2020, 90, 2355-2366.	2.2	6
992	Building Circular Economy for Smart Textiles, Smart Clothing, and Future Wearables. Materials Circular Economy, 2020, 2, 1.	3.2	26
993	Towards User-Friendly Wearable Platforms for Monitoring Unconstrained Indoor and Outdoor Activities. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 674-684.	6.3	3
994	Smart textiles: an overview of recent progress on chromic textiles. Journal of the Textile Institute, 2021, 112, 152-171.	1.9	58
995	Laser direct writing of waterproof sensors inside flexible substrates for wearable electronics. Optics and Laser Technology, 2021, 135, 106694.	4.6	16
996	Soft capacitor fibers using conductive polymers for electronic textiles. , 2021, , 189-202.		0
997	Flexible and wearable monitoring systems for biomedical applications in organic flexible electronics: Fundamentals, devices, and applications. , 2021, , 599-625.		5
998	Electro-textile wearable antennas in wireless body area networks: materials, antenna design, manufacturing techniques, and human body consideration—a review. Textile Research Journal, 2021, 91, 646-663.	2.2	43
999	Design, Modeling, and Control of a 3D Printed Monolithic Soft Robotic Finger With Embedded Pneumatic Sensing Chambers. IEEE/ASME Transactions on Mechatronics, 2021, 26, 876-887.	5.8	32
1000	Material innovation and mechanics design for substrates and encapsulation of flexible electronics: a review. Materials Horizons, 2021, 8, 383-400.	12.2	91
1001	Solvent-resistant ultrafine nonwoven fibrous membranes by ultraviolet-assisted electrospinning of organo-soluble photosensitive polyimide resin. Journal of Applied Polymer Science, 2021, 138, 50048.	2.6	7
1002	Flexible aqueous lithium-ion batteries with ultrahigh areal capacity and long cycle life. Materials Today Energy, 2021, 19, 100570.	4.7	7
1003	Advances in triboelectric nanogenerators for biomedical sensing. Biosensors and Bioelectronics, 2021, 171, 112714.	10.1	159
1004	Review of the end-of-life solutions in electronics-based smart textiles. Journal of the Textile Institute, 2021, 112, 1500-1513.	1.9	17
1005	Washable, colored and textured, carbon nanotube textile yarns. Carbon, 2021, 172, 334-344.	10.3	13
1006	Bio-inspired smart electronic-skin based on inorganic perovskite nanoplates for application in photomemories and mechanoreceptors. Nanoscale, 2021, 13, 253-260.	5.6	14

#	ARTICLE	IF	CITATIONS
1007	Paint‐On Epidermal Electronics for On‐Demand Sensors and Circuits. Advanced Electronic Materials, 2021, 7, .	5.1	9
1008	Reactive fungal wearable. BioSystems, 2021, 199, 104304.	2.0	41
1009	Hydrodynamic modeling of e-textile fabric washing behavior by the Coupled Eulerian‐Lagrangian method. Textile Research Journal, 2021, 91, 1117-1131.	2.2	6
1010	Flexible piezoelectric micro ultrasonic transducer array integrated on various flexible substrates. Sensors and Actuators A: Physical, 2021, 317, 112476.	4.1	18
1011	Electrically conductive cotton fabric coatings developed by silica sol-gel precursors doped with surfactant-aided dispersion of vertically aligned carbon nanotubes fillers in organic solvent-free aqueous solution. Journal of Colloid and Interface Science, 2021, 586, 120-134.	9.4	24
1012	Materials, Actuators, and Sensors for Soft Bioinspired Robots. Advanced Materials, 2021, 33, e2003139.	21.0	209
1013	Vapor phase polymerized conducting polymer/MXene textiles for wearable electronics. Nanoscale, 2021, 13, 1832-1841.	5.6	101
1014	Adhesive and tough hydrogels promoted by quaternary chitosan for strain sensor. Carbohydrate Polymers, 2021, 254, 117298.	10.2	76
1015	Physical and electrochemical appraisal of cotton textile modified with polypyrrole and graphene/reduced graphene oxide for flexible electrode. Journal of the Textile Institute, 2021, 112, 646-658.	1.9	4
1016	The tactics of thermoelectric scaffolds with its advancements in engineering applications. Polymer-Plastics Technology and Materials, 2021, 60, 1-24.	1.3	4
1017	Tissue-Emulating Phantoms for In Vitro Experimentation at Radio Frequencies: Exploring characteristics, fabrication, and testing methods. IEEE Antennas and Propagation Magazine, 2021, 63, 29-39.	1.4	8
1018	Electrical conduction of reduced graphene oxide coated meta-aramid textile and its evolution under aging conditions. Journal of Industrial Textiles, 2021, 50, 1330-1347.	2.4	4
1019	Highly stretchable durable electro-thermal conductive yarns made by deposition of carbon nanotubes. Journal of the Textile Institute, 2022, 113, 80-89.	1.9	9
1020	Memory Devices for Flexible and Neuromorphic Device Applications. Advanced Intelligent Systems, 2021, 3, 2000206.	6.1	14
1021	Linear Low Density Polyethylene-Thermotropic Liquid Crystal Composite Substrate for High-Frequency Devices: Dielectric Characterization. Journal of Electronic Materials, 2021, 50, 1434-1443.	2.2	2
1022	Smart textiles in healthcare: a summary of history, types, applications, challenges, and future trends. , 2021, , 93-107.		6
1023	Online Yarn Breakage Detection: A Reflection-Based Anomaly Detection Method. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	4.7	4
1024	Design and Characterization of a Textile Electrode System for the Detection of High-Density sEMG. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 1110-1119.	4.9	8

#	ARTICLE	IF	CITATIONS
1025	Polymer Composites: Smart Synthetic Fibers Approach in Energy and Environmental Care. , 2021, , 3637-3661.		0
1026	E-Textile Technology Review“From Materials to Application. IEEE Access, 2021, 9, 97152-97179.	4.2	40
1027	Smart Nanocomposite Nonwoven Wearable Fabrics Embedding Phase Change Materials for Highly Efficient Energy Conversion“Storage and Use as a Stretchable Conductor. ACS Applied Materials & Interfaces, 2021, 13, 4508-4518.	8.0	50
1028	Flexible thread-based electrochemical sensors for oxygen monitoring. Analyst, The, 2021, 146, 2983-2990.	3.5	11
1029	Smart Textiles and Sensorized Garments for Physiological Monitoring: A Review of Available Solutions and Techniques. Sensors, 2021, 21, 814.	3.8	72
1030	High performance fiber-shaped supercapacitors based on core“shell fiber electrodes with adjustable surface wrinkles and robust interfaces. Journal of Materials Chemistry A, 2021, 9, 16852-16859.	10.3	27
1031	High-temperature piezoelectric conversion using thermally stabilized electrospun polyacrylonitrile membranes. Journal of Materials Chemistry A, 2021, 9, 20395-20404.	10.3	14
1032	Energy Harvesting and Storage with Soft and Stretchable Materials. Advanced Materials, 2021, 33, e2004832.	21.0	91
1033	Electrospun materials for wearable sensor applications in healthcare. , 2021, , 405-432.		1
1034	Reconfigurable broadband printed monopole antenna for portable smart IoT applications. International Journal of Communication Systems, 2021, 34, e4721.	2.5	3
1035	Nachhaltiger Konsum im digitalen Zeitalter. Forum Dienstleistungsmanagement, 2021, , 235-261.	1.2	1
1036	Recent Trends in Wearable Device Technology for Health State Monitoring. Advances in Computational Intelligence and Robotics Book Series, 2021, , 129-147.	0.4	0
1037	Electronic Textiles. Encyclopedia, 2021, 1, 115-130.	4.5	18
1038	Stitched Ground Planes for Textile Antenna Application: An Experimental Study. Open Journal of Antennas and Propagation, 2021, 09, 11-25.	0.3	4
1039	Technology Development for MEMS: A Tutorial. IEEE Sensors Journal, 2022, 22, 10106-10125.	4.7	2
1040	Research and Application Progress of Intelligent Wearable Devices. Chinese Journal of Analytical Chemistry, 2021, 49, 159-171.	1.7	21
1041	Wearable Biosensors: An Alternative and Practical Approach in Healthcare and Disease Monitoring. Molecules, 2021, 26, 748.	3.8	134
1042	DEVELOPMENT OF SPECIALTY COATED FABRICS FOR CANOPY OF INFLATABLE MILITARY TENT (IMT) FOR FOREST AREA. International Journal of Research -GRANTHAALAYAH, 2021, 9, 81-92.	0.1	0

#	ARTICLE	IF	CITATIONS
1043	Fully printed, stretchable and wearable bioimpedance sensor on textiles for tomography. Flexible and Printed Electronics, 2021, 6, 015010.	2.7	13
1044	Electroluminescent Fabric Woven by Ultrastretchable Fibers for Arbitrarily Controllable Pattern Display. ACS Applied Materials & Interfaces, 2021, 13, 11260-11267.	8.0	31
1045	Recent developments in self-powered smart chemical sensors for wearable electronics. Nano Research, 2021, 14, 3669-3689.	10.4	78
1046	A review on the development of conjugated polymer-based textile thermoelectric generator. Journal of Industrial Textiles, 2022, 51, 181S-214S.	2.4	12
1047	Flexible and Stretchable Ultrasonic Transducer Array Conformed to Complex Surfaces. IEEE Electron Device Letters, 2021, 42, 240-243.	3.9	20
1048	Hybrid Triboelectric Nanogenerators: From Energy Complementation to Integration. Research, 2021, 2021, 9143762.	5.7	32
1049	A Review of 3D-Printable Soft Pneumatic Actuators and Sensors: Research Challenges and Opportunities. Advanced Intelligent Systems, 2021, 3, 2000223.	6.1	75
1050	Magnetosensitive E-skins for Interactive Devices. Advanced Functional Materials, 2021, 31, 2007788.	14.9	33
1051	Scattering methods for determining structure and dynamics of polymer gels. Journal of Applied Physics, 2021, 129, .	2.5	11
1052	Piezoelectric glass-ceramics: Crystal chemistry, orientation mechanisms, and emerging applications. Journal of the American Ceramic Society, 2021, 104, 1915-1944.	3.8	8
1053	A Facile Solution Engineering of PEDOT:PSS-Coated Conductive Textiles for Wearable Heater Applications. Polymers, 2021, 13, 945.	4.5	9
1054	Portable and wearable self-powered systems based on emerging energy harvesting technology. Microsystems and Nanoengineering, 2021, 7, 25.	7.0	194
1055	Metal-Textile Laser Welding for Wearable Sensors Applications. Advanced Electronic Materials, 2021, 7, 2001238.	5.1	17
1056	A Review on Encapsulation Technology from Organic Light Emitting Diodes to Organic and Perovskite Solar Cells. Advanced Functional Materials, 2021, 31, 2100151.	14.9	114
1057	Highly sensitive coated cotton thread for applications in soft circuit. Journal of Materials Science: Materials in Electronics, 2021, 32, 10880-10889.	2.2	4
1058	Textile-Based Flexible Pressure Sensors: A Review. Polymer Reviews, 2022, 62, 65-94.	10.9	74
1059	Piezoelectric Properties of Three Types of PVDF and ZnO Nanofibrous Composites. Advanced Fiber Materials, 2021, 3, 160-171.	16.1	32
1060	Sewing-enabled electric button for smart fabric. Journal of Sensor Science and Technology, 2021, 30, 67-70.	0.2	0

#	ARTICLE	IF	CITATIONS
1061	Recent advances in functional fiber electronics. <i>SusMat</i> , 2021, 1, 105-126.	14.9	77
1062	Twoâ€Dimensional Materialâ€Enhanced Flexible and Selfâ€Healable Photodetector for Largeâ€Area Photodetection. <i>Advanced Functional Materials</i> , 2021, 31, 2100136.	14.9	17
1063	Smart Textiles Testing: A Roadmap to Standardized Test Methods for Safety and Quality-Control. , 0, , .		4
1064	Feeling Through Spacesuits: Application of Space-Resilient E-Textiles to Enable Haptic Feedback on Pressurized Extravehicular Suits. , 2021, , .		3
1065	Triboelectric Yarns with Electrospun Functional Polymer Coatings for Highly Durable and Washable Smart Textile Applications. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 16876-16886.	8.0	59
1066	Characterization, Design, and Experimentation of a Fabric-Based Wearable Joint Sensing Device on Human Elbow. <i>Journal of Mechanisms and Robotics</i> , 2021, 13, .	2.2	0
1067	Electrospun nanofiber-based soft electronics. <i>NPG Asia Materials</i> , 2021, 13, .	7.9	127
1068	Materials and technologies for multifunctional, flexible or integrated supercapacitors and batteries. <i>Materials Today</i> , 2021, 48, 176-197.	14.2	66
1069	Strain-Insensitive Hierarchically Structured Stretchable Microstrip Antennas for Robust Wireless Communication. <i>Nano-Micro Letters</i> , 2021, 13, 108.	27.0	17
1070	Electrical Characterization of Conductive Threads for Textile Electronics. <i>Electronics (Switzerland)</i> , 2021, 10, 967.	3.1	17
1071	Miniaturization and Electromagnetic Reliability of Wearable Textile Antennas. <i>Electronics (Switzerland)</i> , 2021, 10, 994.	3.1	11
1072	Heat Scanning for the Fabrication of Conductive Fibers. <i>Polymers</i> , 2021, 13, 1405.	4.5	4
1073	Thermal and mechanical characterization of high performance polymer fabrics for applications in wearable devices. <i>Scientific Reports</i> , 2021, 11, 8705.	3.3	17
1074	Manufacturing and characterization of novel silicone/natural fabric/ grapheneâ€based functional composites for human body motion sensing. <i>Polymer Composites</i> , 2021, 42, 3493-3507.	4.6	5
1075	Electrical Properties of Textiles Treated with Graphene Oxide Suspension. <i>Materials</i> , 2021, 14, 1999.	2.9	6
1076	Microfluidics for flexible electronics. <i>Materials Today</i> , 2021, 44, 105-135.	14.2	65
1077	Vibration-Sensing Electronic Yarns for the Monitoring of Hand Transmitted Vibrations. <i>Sensors</i> , 2021, 21, 2780.	3.8	2
1078	Recent Advancement of Emerging Nano Copper-Based Printable Flexible Hybrid Electronics. <i>ACS Nano</i> , 2021, 15, 6211-6232.	14.6	59

#	ARTICLE	IF	CITATIONS
1079	Properties of Surface Heating Textile for Functional Warm Clothing Based on a Composite Heating Element with a Positive Temperature Coefficient. <i>Nanomaterials</i> , 2021, 11, 904.	4.1	8
1080	Thermally-enhanced microstructures of Si/TiNi film electrodes for improved electrochemical properties. <i>Journal of Alloys and Compounds</i> , 2021, 860, 158507.	5.5	2
1081	Future Trend in Wearable Electronics in the Textile Industry. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3914.	2.5	49
1082	Nanostructured Surface Finishing and Coatings: Functional Properties and Applications. <i>Materials</i> , 2021, 14, 2733.	2.9	23
1083	Triboelectric Nanogenerators for Therapeutic Electrical Stimulation. <i>Advanced Materials</i> , 2021, 33, e2007502.	21.0	92
1084	Low-voltage textile-based wearable heater systems fabricated by printing reactive silver inks. <i>Sensors and Actuators A: Physical</i> , 2021, 322, 112610.	4.1	17
1085	1/f Noise Characterization of Bilayer MoS ₂ Field-Effect Transistors on Paper with Inkjet-Printed Contacts and hBN Dielectrics. <i>Advanced Electronic Materials</i> , 2021, 7, 2100283.	5.1	4
1086	Molecular simulation-guided and physics-informed mechanistic modeling of multifunctional polymers. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2021, 37, 725-745.	3.4	6
1087	Permeable and washable electronics based on polyamide fibrous membrane for wearable applications. <i>Composites Science and Technology</i> , 2021, 207, 108729.	7.8	19
1088	Review on Data Acquisition of Electrocardiogram Biometric Recognition in Wearable Smart Textile Shirts. <i>Journal of Physics: Conference Series</i> , 2021, 1900, 012019.	0.4	2
1089	Metallisation of Textiles and Protection of Conductive Layers: An Overview of Application Techniques. <i>Sensors</i> , 2021, 21, 3508.	3.8	31
1090	Screen-printing of microfibrillated cellulose for an improved moisture management, strength and abrasion resistant properties of flame-resistant fabrics. <i>Cellulose</i> , 2021, 28, 6663.	4.9	11
1091	A review on nanostructured thin films on flexible substrates: links between strains and magnetic properties. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 233002.	1.8	12
1092	Printed Stretchable Single-Nanofiber Interconnections for Individually-Addressable Highly-Integrated Transparent Stretchable Field Effect Transistor Array. <i>Nano Letters</i> , 2021, 21, 5819-5827.	9.1	10
1093	Glancing Angle Deposition of Nanostructured ZnO Films for Ultrasonics. , 2021, , .		1
1094	Boosting the Oxidative Potential of Polyethylene Glycol-Based Polymer Electrolyte to 4.36 V by Spatially Restricting Hydroxyl Groups for High-Voltage Flexible Lithium-Ion Battery Applications. <i>Advanced Science</i> , 2021, 8, e2100736.	11.2	39
1095	The Influence of Substrate Functionalization for Enhancing the Interfacial Bonding between Graphene Oxide and Nonwoven Polyester. <i>Fibers and Polymers</i> , 2021, 22, 3192-3202.	2.1	17
1096	Printed and Laser-Activated Liquid Metal-Elastomer Conductors Enabled by Ethanol/PDMS/Liquid Metal Double Emulsions. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 28729-28736.	8.0	29

#	ARTICLE	IF	CITATIONS
1097	Fabrication of Conductive, Adhesive, and Stretchable Agarose-Based Hydrogels for a Wearable Biosensor. <i>ACS Applied Bio Materials</i> , 2021, 4, 6148-6156.	4.6	11
1098	Smart textile triboelectric nanogenerators: Current status and perspectives. <i>MRS Bulletin</i> , 2021, 46, 512-521.	3.5	111
1099	Melting characteristics and dynamic evolution of microstructure of single-crystal gold film irradiated by laser under the non-Fourier effect. <i>Molecular Crystals and Liquid Crystals</i> , 2021, 723, 62-80.	0.9	1
1100	Wearable Smart Textiles for Long-Term Electrocardiography Monitoring—A Review. <i>Sensors</i> , 2021, 21, 4174.	3.8	58
1101	Design and Testing of Graphene-Based Screen Printed Antenna on Flexible Substrates for Wireless Energy Harvesting Applications. <i>IETE Journal of Research</i> , 2023, 69, 3604-3615.	2.6	4
1102	Wash Analyses of Flexible and Wearable Printed Circuits for E-Textiles and Their Prediction of Damages. <i>Electronics (Switzerland)</i> , 2021, 10, 1362.	3.1	4
1103	2 Å— 2 Textile Rectenna Array with Electromagnetically Coupled Microstrip Patch Antennas in the 2.4 GHz WiFi Band. <i>Electronics (Switzerland)</i> , 2021, 10, 1447.	3.1	5
1104	Interfacial Polarization and Dual Charge Transfer Induced High Permittivity of Carbon Dots-Based Composite as Humidity-Resistant Tribomaterial for Efficient Biomechanical Energy Harvesting. <i>Advanced Energy Materials</i> , 2021, 11, 2101294.	19.5	31
1105	Light-Emitting Textiles: Device Architectures, Working Principles, and Applications. <i>Micromachines</i> , 2021, 12, 652.	2.9	27
1106	Inkjet Printed Textile Force Sensitive Resistors for Wearable and Healthcare Devices. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100893.	7.6	21
1107	Challenges and Opportunities for Use of Smart Materials in Designing Assistive Technology Products with, and for Older Adults. <i>Fashion Practice</i> , 2022, 14, 242-265.	0.8	7
1108	Pushing the Limits of Flexibility and Stretchability of Solar Cells: A Review. <i>Advanced Materials</i> , 2021, 33, e2101469.	21.0	51
1109	3D-Printed Wearable Electrochemical Energy Devices. <i>Advanced Functional Materials</i> , 2022, 32, 2103092.	14.9	37
1110	Electronic Textile <i>Gaia</i> Ubiquitous Computational Substrates Across Geometric Scales. <i>IEEE Pervasive Computing</i> , 2021, 20, 18-29.	1.3	7
1111	Photo-Patternable, High-Speed Electrospun Ultrafine Fibers Fabricated by Intrinsically Negative Photosensitive Polyimide. <i>ACS Omega</i> , 2021, 6, 18458-18464.	3.5	5
1112	Hybridizing ultrathin SnO ₂ nanorods with graphene for stabilized high capacity and flexible lithium-ion batteries. <i>Ionics</i> , 2021, 27, 3847-3856.	2.4	0
1113	Inkjet Printing of Perovskite Nanosheets for Microcapacitors. <i>Advanced Electronic Materials</i> , 2021, 7, 2100402.	5.1	9
1114	3D carbon nanocones/metallic MoS ₂ nanosheet electrodes towards flexible supercapacitors for wearable electronics. <i>Energy</i> , 2021, 227, 120419.	8.8	26

#	ARTICLE	IF	CITATIONS
1115	Antibacterial electroconductive <scp>rGO</scp> modified cotton fabric. Polymers for Advanced Technologies, 2021, 32, 3975-3981.	3.2	6
1116	Fiber Surface/Interfacial Engineering on Wearable Electronics. Small, 2021, 17, e2102903.	10.0	17
1117	Personal Thermal Management by Single-Walled Carbon Nanotubes Functionalized Polyester Fabrics. Materials, 2021, 14, 4616.	2.9	0
1118	Origami-Based Flexible and Simple Tubular Polymer Electrolyte Membrane Fuel Cell Stack. ACS Energy Letters, 2021, 6, 3195-3202.	17.4	8
1119	Structured fabrics with tunable mechanical properties. Nature, 2021, 596, 238-243.	27.8	155
1121	Thermoelectric textile devices with thin films of nanocellulose and copper iodide. Journal of Materials Science: Materials in Electronics, 2021, 32, 23246-23265.	2.2	5
1122	Printable Smart Materials and Devices: Strategies and Applications. Chemical Reviews, 2022, 122, 5144-5164.	47.7	121
1123	Mechanics of hyperelastic composites reinforced with nonlinear elastic fibrous materials in finite plane elastostatics. International Journal of Engineering Science, 2021, 165, 103491.	5.0	9
1124	Self-Standing and Flexible Thermoelectric Nanofiber Mat of an n-Type Conjugated Polymer. ACS Applied Electronic Materials, 2021, 3, 3641-3647.	4.3	10
1125	Lignocellulosic Biomass-Derived Carbon Electrodes for Flexible Supercapacitors: An Overview. Materials, 2021, 14, 4571.	2.9	24
1126	High performance flexible silk fabric electrodes with antibacterial, flame retardant and UV resistance for supercapacitors and sensors. Electrochimica Acta, 2021, 390, 138895.	5.2	11
1127	Ubiquitous conformable systems for imperceptible computing. Foresight, 2022, 24, 75-98.	2.1	7
1128	Textile-Based Sensors for Biosignal Detection and Monitoring. Sensors, 2021, 21, 6042.	3.8	30
1129	Wearable and self-healable textile-based strain sensors to monitor human muscular activities. Composites Part B: Engineering, 2021, 220, 108969.	12.0	23
1130	Toward polymer composites based and architectural engineering induced flexible electrodes for lithium-ion batteries. Renewable and Sustainable Energy Reviews, 2021, 148, 111302.	16.4	14
1131	Moisture-tunable, ionic strength-controlled piezoelectric effect in cellulose nanocrystal films. Applied Materials Today, 2021, 24, 101082.	4.3	16
1132	Electrical behavior investigation of sewn textile transmission paths on weft-knitted fabrics used for muscle activity monitoring. Journal of the Textile Institute, 2022, 113, 2215-2226.	1.9	1
1133	Development progress, performance enhancement routes, and applications of paper-based triboelectric nanogenerators. Chemical Engineering Journal, 2022, 430, 132559.	12.7	13

#	ARTICLE	IF	CITATIONS
1134	Fabric based printed-distributed battery for wearable e-textiles: a review. Science and Technology of Advanced Materials, 2021, 22, 772-793.	6.1	14
1135	Conductive Polymer Nanocomposites for Stretchable Electronics: Material Selection, Design, and Applications. ACS Applied Materials & Interfaces, 2021, 13, 43831-43854.	8.0	81
1137	Fanless, porous graphene-copper composite heat sink for micro devices. Scientific Reports, 2021, 11, 17607.	3.3	8
1138	An Easy-to-Install Textile Bending Sensor with High Sensitivity, Linearity, and Multidirection Direction Capability. Advanced Materials Technologies, 2022, 7, 2100830.	5.8	6
1139	Review on the Integration of Microelectronics for E-Textile. Materials, 2021, 14, 5113.	2.9	43
1140	Graphene-based electronic textile sheet for highly sensitive detection of NO ₂ and NH ₃ . Sensors and Actuators B: Chemical, 2021, 345, 130361.	7.8	21
1141	Maintaining electrical conductivity of microcellular MWCNT/TPU composites after deformation. Composites Part B: Engineering, 2021, 223, 109113.	12.0	23
1142	Franz cells for facile biosensor evaluation: A case of HRP/SWCNT-based hydrogen peroxide detection via amperometric and wireless modes. Biosensors and Bioelectronics, 2021, 191, 113420.	10.1	10
1143	A humidity-resistant, stretchable and wearable textile-based triboelectric nanogenerator for mechanical energy harvesting and multifunctional self-powered haptic sensing. Chemical Engineering Journal, 2021, 423, 130200.	12.7	60
1144	Beyond flexible-Li-ion battery systems for soft electronics. Energy Storage Materials, 2021, 42, 773-785.	18.0	33
1145	All-in-one wearable electronics design: Smart electrochromic liquid-crystal-clad fibers without external electrodes. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 630, 127535.	4.7	5
1146	Solution-processed flexible nonvolatile organic field-effect transistor memory using polymer electret. Organic Electronics, 2021, 99, 106331.	2.6	9
1147	Dynamic Surface Electromyography Using Stretchable Screen-Printed Textile Electrodes. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 1661-1668.	4.9	11
1148	A bioinspired switchable selective infrared solar absorber by tunable optical coupling. Journal of Materials Chemistry C, 2021, 9, 4150-4157.	5.5	5
1149	Body Core Temperature Estimation Using New Compartment Model With Vital Data From Wearable Devices. IEEE Access, 2021, 9, 124452-124462.	4.2	5
1150	Adaptable ionic liquid-containing supramolecular hydrogel with multiple sensations at subzero temperatures. Journal of Materials Chemistry C, 2021, 9, 1044-1050.	5.5	17
1151	Super wear-resistant and conductive cotton fabrics based on silver nanowires. Journal of Industrial Textiles, 2022, 51, 8227S-8245S.	2.4	5
1152	Tactile sensor based on capacitive structure. , 2021, , 31-52.		3

#	ARTICLE	IF	CITATIONS
1153	Aligned carbon nanotube fibers for fiber-shaped solar cells, supercapacitors and batteries. RSC Advances, 2021, 11, 6628-6643.	3.6	10
1154	New Flexible Protective Coating for Printed Smart Textiles. Applied Sciences (Switzerland), 2021, 11, 664.	2.5	1
1155	Tactile sensors based on organic field-effect transistors. , 2021, , 53-66.		1
1156	Bending Analysis of Polymer-Based Flexible Antennas for Wearable, General IoT Applications: A Review. Polymers, 2021, 13, 357.	4.5	54
1157	<i>In situ</i> coupled electrical/mechanical investigations of graphene coated cationized cotton yarns with enhanced conductivity upon mechanical stretching. Journal of Materials Chemistry C, 2021, 9, 14247-14255.	5.5	5
1158	MATUROLIFE: Using Advanced Material Science to Develop the Future of Assistive Technology. Intelligent Systems Reference Library, 2020, , 189-202.	1.2	2
1159	Smart Textiles and Smart Personnel Protective Equipment. Human-computer Interaction Series, 2017, , 333-357.	0.6	6
1160	Haptic Feedback for Wearables and Textiles Based on Electrical Muscle Stimulation. Human-computer Interaction Series, 2017, , 103-137.	0.6	13
1162	Smart Medical Device Selection Based on Interval Valued Intuitionistic Fuzzy VIKOR. Advances in Intelligent Systems and Computing, 2018, , 306-317.	0.6	8
1163	Stimuli-Responsive Membranes for Separations. Polymers and Polymeric Composites, 2019, , 491-508.	0.6	2
1164	Nanoengineered textiles: from advanced functional nanomaterials to groundbreaking high-performance clothing. , 2020, , 611-714.		11
1165	Laminate composite-based highly durable and flexible supercapacitors for wearable energy storage. Journal of Energy Storage, 2020, 29, 101460.	8.1	12
1166	Wearable self-powered pressure sensor by integration of piezo-transmittance microporous elastomer with organic solar cell. Nano Energy, 2020, 74, 104749.	16.0	49
1167	Carbon-Based Fibers for Advanced Electrochemical Energy Storage Devices. Chemical Reviews, 2020, 120, 2811-2878.	47.7	334
1168	Machine-Washable Conductive Silk Yarns with a Composite Coating of Ag Nanowires and PEDOT:PSS. ACS Applied Materials & Interfaces, 2020, 12, 27537-27544.	8.0	81
1169	Effect of thickness on the maximum potential drop of current collectors. Applied Physics Letters, 2017, 111, 093902.	3.3	4
1170	Conductive liquid metal elastomer thin films with multifunctional electro-mechanical properties. Multifunctional Materials, 2020, 3, 044001.	3.7	14
1171	First-principles study of mechanical and electronic properties of bent monolayer transition metal dichalcogenides. Physical Review Materials, 2019, 3, .	2.4	28

#	ARTICLE	IF	CITATIONS
1172	Fully Textile Insole Seam-Line for Multimodal Sensor Mapping. IEEE Sensors Journal, 2020, 20, 10145-10153.	4.7	5
1173	Recent Trends, Construction, and Applications of Smart Textiles and Clothing for Monitoring of Health Activity: A Comprehensive Multidisciplinary Review. IEEE Reviews in Biomedical Engineering, 2022, 15, 36-60.	18.0	21
1174	Strain-Limiting Substrates Based on Nonbuckling, Prestrain-Free Mechanics for Robust Stretchable Electronics. Journal of Applied Mechanics, Transactions ASME, 2017, 84, .	2.2	19
1175	Hydrogen-assisted graphene transfer: surface engineering for chemical, electronic, and biological applications. , 2018, , .		1
1176	SpaceSkin: development of aerospace-grade electronic textile for simultaneous protection and high velocity impact characterization. , 2019, , .		5
1177	Exploring Acceptability and Utility of Deformable Interactive Garment Buttons. , 2020, , .		1
1178	ZebraSense. , 2020, , .		23
1179	Performance Analysis of Interaction between Smart Glasses and Smart Objects Using Image-Based Object Identification. International Journal of Distributed Sensor Networks, 2016, 12, 6254827.	2.2	7
1180	Research on Poppers Used as Electrical Connectors in High Speed Textile Transmission Lines. Autex Research Journal, 2016, 16, 228-235.	1.1	9
1181	Giyilebilir Elektronik/AkÄ±llı Tekstiller ve UygulamalarÄ±. Kahramanmaraş SÄ±tÄ±nÄ±m Ä°mam Ä°niversitesi MÄ±hendislik Bilimleri Dergisi, 2017, 20, 1-1.	0.2	5
1182	Feature-Free Activity Classification of Inertial Sensor Data With Machine Vision Techniques: Method, Development, and Evaluation. JMIR MHealth and UHealth, 2017, 5, e115.	3.7	17
1183	Copper Electrodeposition by Hydrogen Evolution Assisted Electroplating (HEA) for Wearable Electronics. , 2020, , .		5
1184	Mathematical Model Predicting the Heat and Power Dissipated in an Electro-Conductive Contact in a Hybrid Woven Fabric. Autex Research Journal, 2020, 20, 133-139.	1.1	3
1185	Regenerated Cellulose/Graphene Composite Fibers with Electroconductive Properties. Autex Research Journal, 2022, 22, 177-183.	1.1	3
1186	Embedded Electronics in Textiles and Wearable Technology. I-managerâ€™s Journal on Embedded Systems, 2015, 3, 1-18.	0.2	2
1187	SMART FABRICS-WEARABLE TECHNOLOGY. International Journal of Engineering Technologies and Management Research, 2017, 4, 78-98.	0.1	9
1188	Ä°letken Ä°plik AlÄ±mÄ±nda Etkili Kriterler ArasÄ±ndaki Ä°liÅkilerin DEMATEL YÄ°ntemi Ä°le Belirlenmesi. European Journal of Science and Technology, 0, , 152-160.	0.5	4
1189	The Application Wearable Thermal Textile Technology in Thermal-Protection Applications. Latest Trends in Textile and Fashion Designing, 2018, 1, .	0.0	1

#	ARTICLE	IF	CITATIONS
1190	Learning Manifolds from Dynamic Process Data. Algorithms, 2020, 13, 30.	2.1	3
1191	Melt-Spun Fibers for Textile Applications. Materials, 2020, 13, 4298.	2.9	105
1192	Meta-Wearable Antennas—A Review of Metamaterial Based Antennas in Wireless Body Area Networks. Materials, 2021, 14, 149.	2.9	40
1193	Triaxial Carbon Nanotube/Conducting Polymer Wet-Spun Fibers Supercapacitors for Wearable Electronics. Nanomaterials, 2021, 11, 3.	4.1	15
1194	Electrostatic Self-Assembly of Composite Nanofiber Yarn. Polymers, 2021, 13, 12.	4.5	28
1195	Fabric-Based Triboelectric Nanogenerators. Research, 2019, 2019, 1091632.	5.7	36
1196	Fabrication and Characterization of Screen Printed Stretchable Carbon Interconnects. Additional Conferences (Device Packaging HiTEC HiTEN & CICMT), 2017, 2017, 1-6.	0.2	2
1198	Preparation of Conductive Polyethylene Terephthalate Yarns by Deposition of Silver & Copper Nanoparticles. Fibres and Textiles in Eastern Europe, 2017, 25, 25-30.	0.5	11
1199	Structural Parameters of Functional Membranes for Integration in Smart Wearable Materials. Fibres and Textiles in Eastern Europe, 2017, 25, 73-78.	0.5	7
1200	Deep learning approaches for human activity recognition using wearable technology. Medicinski Podmladak, 2018, 69, 14-24.	0.0	5
1201	Flexible sensor and energy storage device based on piezoelectric nanogenerator. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 170701.	0.5	5
1202	Prospects toward flexible magnonic systems. Journal of Applied Physics, 2021, 130, .	2.5	8
1203	Recent Advances on Conducting Polymers Based Nanogenerators for Energy Harvesting. Micromachines, 2021, 12, 1308.	2.9	9
1204	High-Speed Fabrication of All-Inkjet-Printed Organometallic Halide Perovskite Light-Emitting Diodes on Elastic Substrates. Advanced Materials, 2021, 33, e2102095.	21.0	29
1207	Experimental molecular dynamics for individual atomic-scale plastic events in nanoscale crystals. Journal of the Mechanics and Physics of Solids, 2022, 158, 104687.	4.8	16
1208	2D materials inks toward smart flexible electronics. Materials Today, 2021, 50, 116-148.	14.2	57
1210	A review of textile-based electrodes developed for electrostimulation. Textile Research Journal, 2022, 92, 1300-1320.	2.2	14
1211	Large-Area Piezoresistive Tactile Sensor Developed by Training a Super-Simple Single-Layer Carbon Nanotube-Dispersed Polydimethylsiloxane Pad. Advanced Intelligent Systems, 2022, 4, 2100123.	6.1	6

#	ARTICLE	IF	CITATIONS
1212	Advanced sensor technologies and the future of work. American Journal of Industrial Medicine, 2022, 65, 3-11.	2.1	25
1213	An Electromagnetic Fiber Acoustic Transducer with Dual Modes of Loudspeaker and Microphone. Small, 2021, 17, 2102052.	10.0	2
1214	Smart personal protective equipment (PPE): current PPE needs, opportunities for nanotechnology and e-textiles. Flexible and Printed Electronics, 2021, 6, 043004.	2.7	11
1215	A Design-Led, Materials Based Approach to Human Centered Applications Using Modified Dielectric Electroactive Polymer Sensors. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2015, , 11-19.	0.3	0
1216	Preparation of conductive EPDM rubber sheets by electroless Ni-plating for electromagnetic interference shielding applications. Journal of the Korean Crystal Growth and Crystal Technology, 2015, 25, 193-198.	0.3	0
1217	A Proposal Fashion Design Curriculum For Undergraduate Level In Saudi Arabian Universities. , 2016, , 69.		0
1218	Fabrication and Application of Low Cost Flexible Film-Based Sensors to Environmental and Biomedical Monitoring Scenarios. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2016, , 203-216.	0.3	0
1219	Approach to Engineering the Temperature Sensing E-textile: A Lightweight Thermistor as an Active Sensing Element. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2016, , 223-234.	0.3	1
1220	12 Wearable Nanoenabled Biosensors. , 2016, , 325-350.		0
1221	Introduction to a new silicone adhesive designed for wearables technologies. International Symposium on Microelectronics, 2016, 2016, 000535-000539.	0.0	0
1222	Packaging for medical and wellness applications. International Symposium on Microelectronics, 2016, 2016, 000139-000143.	0.0	0
1223	The Happy Feet Fashion Wearable Project. Advances in Business Information Systems and Analytics Book Series, 2017, , 115-135.	0.4	0
1224	Motion Detection in an Intelligent Textile Mattress Cover. Advances in Intelligent Systems and Computing, 2017, , 47-54.	0.6	0
1225	Usability Test of a Smart Textile for Upper-Limb Rehabilitation in Patients with Neurological Diseases. Journal of Pediatric Neurology and Medicine, 2017, 2, .	0.1	0
1226	The Analysis of Some Sewed Heating Textile Elements. Journal of Fashion Technology & Textile Engineering, 2017, 05, .	0.1	0
1227	Weaving a New World: Wearable Thermoelectric Textiles. Current Trends in Fashion Technology & Textile Engineering, 2017, 2, .	0.1	1
1228	Linearity Analysis and Calibration of a Cable-Conduit Bend Sensor. The Journal of Korea Robotics Society, 2017, 12, 26-32.	0.4	0
1229	Odporność warstw metalicznych stosowanych w systemach tekstronicznych na deformacje mechaniczne. Przegląd Elektrotechniczny, 2017, 1, 113-116.	0.2	0

#	ARTICLE	IF	CITATIONS
1230	Multi-channel Fabric Based Pressure Mapping Data Acquisition System. IFMBE Proceedings, 2018, , 197-202.	0.3	0
1231	The Happy Feet Fashion Wearable Project. , 2018, , 789-809.		0
1232	Development of One-Dimensional Triaxial Fibres as Potential Bio-battery Structures. Springer Theses, 2018, , 107-137.	0.1	0
1233	A YARN-BASED BACTERIA-POWERED BATTERY FOR SMART TEXTILES. , 2018, , .		0
1234	Impact of the Fabrication Parameters on the Performance of Embroidered E-clothes. Egyptian Journal of Chemistry, 2018, .	0.2	0
1235	RF Energy Harvesting Using a Single Band Cuff Button Rectenna. Lecture Notes in Electrical Engineering, 2019, , 367-374.	0.4	0
1237	IntiWear: acrylic glass as a solar energy concentrator for wearables. Journal of Textile Engineering & Fashion Technology, 2018, 4, .	0.3	1
1238	THE SMART TEXTILE PROBLEM AND ITS IMPLICATION FOR TEACHING. , 2018, , .		0
1239	Flexible Zinc-Manganese Dioxide Alkaline Batteries Based on Kelp Electrolytes. Journal of Materials Science and Chemical Engineering, 2019, 07, 19-28.	0.4	2
1240	Nanotechnology-Empowered Smart Soldier. , 2019, , 255-300.		0
1241	Experience Capturing with Wearable Technology in the WEKIT Project. , 2019, , 297-311.		0
1242	PÄ°EZO UYGULAMALI AKILLI TEKSTÄ°L UYGULAMASI. MÄ¼hendislik Bilimleri Ve TasarÄ±m Dergisi, 2019, 7, 369-380.		1
1243	BÄ°LÄ°MSEL Ä±ALIÄ±MALARIN GELECEÄ±N GÄ°YÄ°M TASARIMINA OLASI ETKÄ°LERÄ°. Ä°nÄ±nÄ¼ Ä°niversitesi Sanat Ve TasarÄ±m Dergisi, 0, , .	0.1	1
1245	Development of Elemental Technology for Arbitrary Shape IoT Sensor and Its Future Development of the Technology. Journal of Japan Institute of Electronics Packaging, 2019, 22, 476-479.	0.1	0
1247	Six types of audio that DEFY reality!. , 2019, , .		5
1248	Manufacturing stretchable conductive interconnects on fabric substrates: development of a technology. , 2019, , .		0
1249	Produtos tÄ±xteis inteligentes: perspectivas para o ensino em design. , 0, , .		1
1250	Progress on the Fabrication of Smart Textiles Based on Soft Strain Sensors. AATCC Journal of Research, 2019, 6, 1-12.	0.6	5

#	ARTICLE	IF	CITATIONS
1251	PDMS-ZNO Composite Textile Ferroelectret For Human Body Energy Harvesting. , 2019, , .		1
1252	Green Synthesis of Metal Nanoparticles for Electronic Textiles. Advanced Structured Materials, 2020, , 81-97.	0.5	3
1253	Fabrication of Polypyrrole Deposited Poly (vinyl alcohol) Nanofiber Webs by Dip-coating and In situ Polymerization and their Application to Textile Electrode Sensors. Fashion & Textile Research Journal, 2020, 22, 386-398.	0.6	1
1254	Comfort Evaluation of Wearable Functional Textiles. Materials, 2021, 14, 6466.	2.9	13
1255	Progress in Flexible Electronic Textile for Heating Application: A Critical Review. Materials, 2021, 14, 6540.	2.9	18
1256	Advanced Functional Materials for Intelligent Thermoregulation in Personal Protective Equipment. Polymers, 2021, 13, 3711.	4.5	6
1257	Analysis of Shielding Properties of Head Covers Made of Conductive Materials in Application to 5G Wireless Systems. Energies, 2021, 14, 7004.	3.1	2
1258	Electrical Activation of Thermo-responsive Textiles. Springer Series in Design and Innovation, 2020, , 65-85.	0.3	0
1259	Advanced Chemical Applications of Modified Cotton. Textile Science and Clothing Technology, 2020, , 501-527.	0.5	1
1260	Design of a Circularly Polarized Textile Antenna for RF Energy Harvesting. , 2020, , .		0
1261	Aprender a pesquisar: estudo preliminar sobre o ensino de tÃxteis inteligentes em Cianorte. , 0, , .		0
1262	Virtual Reality and Animation. , 2021, , 153-168.		0
1263	Advanced self-charging power packs: The assimilation of energy harvesting and storage systems. , 2022, , 441-477.		1
1264	Recent developments in textile based polymeric smart sensor for human health monitoring: A review. Arabian Journal of Chemistry, 2022, 15, 103480.	4.9	25
1266	Design Research. Springer Series in Design and Innovation, 2020, , 145-208.	0.3	0
1267	Electronic Textiles (E-Textiles): Fabric Sensors and Material-Integrated Wearable Intelligent Systems. , 2023, , 80-100.		2
1268	In vitro disease and organ model. , 2020, , 629-668.		0
1270	Redox-enhanced solid-state supercapacitor based on hydroquinone-containing gel electrolyte/ carbon nanotube arrays. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 126101.	0.5	0

#	ARTICLE	IF	CITATIONS
1271	Chemical Structure and Modification of Cotton. Textile Science and Clothing Technology, 2020, , 417-432.	0.5	1
1272	Quantifying the Effect of Nonwoven Conductive Fabric Liners on Electrostatic Precipitator Submicrometer Particle Removal Efficiency. Aerosol and Air Quality Research, 2020, , .	2.1	0
1273	Flexible and Stretchable Sensor Arrays. , 2020, , 275-294.		0
1274	Powering Healthcare IoT Sensors-Based Triboelectric Nanogenerator. Advances in Computer and Electrical Engineering Book Series, 2020, , 29-51.	0.3	2
1275	Investigation of Textile Heating Element in Simulated Wearing Conditions. Autex Research Journal, 2021, 21, 207-215.	1.1	8
1276	Emergence of flexible technology in developing advanced systems for post-stroke rehabilitation: a comprehensive review. Journal of Neural Engineering, 2021, 18, 061003.	3.5	15
1277	Damage location sensing in carbon fiber composites using extrusion printed electronics. Functional Composites and Structures, 2021, 3, 045001.	3.4	4
1278	Significance of Flexible Substrates for Wearable and Implantable Devices: Recent Advances and Perspectives. Advanced Materials Technologies, 2022, 7, .	5.8	81
1279	The Integration of Sensing and Actuating based on a Simple Design Fiber Actuator towards Intelligent Soft Robots. Advanced Materials Technologies, 2022, 7, 2101260.	5.8	23
1280	Study on Folding-Reliability of Wearable Biometric Band. , 2020, , .		0
1281	Capacitive Interdigital Sensors for Flexible Enclosures and Wearables. , 2020, , .		5
1283	Towards Wearable Electronic Devices: Piezoelectric Glove Design and Test. , 2020, , .		1
1284	Performance of Conductive Gloves When Using Electronic Devices in a Cold Environment : Manual Dexterity, Usability and Thermoregulatory Responses. Fashion & Textile Research Journal, 2020, 22, 686-695.	0.6	0
1285	Development of an Elastic Piezoelectric Yarn for the Application of a Muscle Patch Sensor. ACS Omega, 2020, 5, 29427-29438.	3.5	1
1286	Flexible one-dimensional Zn-based electrochemical energy storage devices: recent progress and future perspectives. Journal of Materials Chemistry A, 2021, 9, 26573-26602.	10.3	7
1287	A flexible smart glove for pressure and bending signal acquisition. , 2021, , .		2
1288	Electronic Textiles: A Review. , 2021, , .		3
1289	Washable, Low-Temperature Cured Joints for Textile-Based Electronics. Electronics (Switzerland), 2021, 10, 2749.	3.1	4

#	ARTICLE	IF	CITATIONS
1290	Wearable technologies in the fashion value ecosystem: a conceptual model. Innovation & Management Review, 2021, ahead-of-print, .	2.5	2
1291	The Strategy of Achieving Flexibility in Materials and Configuration of Flexible Lithium-Ion Batteries. Energy Technology, 2021, 9, .	3.8	9
1292	Mapping the knowledge domains of smart textile: visualization analysis-based studies. Journal of the Textile Institute, 2022, 113, 2651-2659.	1.9	3
1293	Microwave assisted synthesis of poly(ortho-phenylenediamine-co-aniline) and functionalised carbon nanotube nanocomposites for fabric-based supercapacitors. Electrochimica Acta, 2022, 403, 139678.	5.2	11
1294	A stretchable triboelectric generator with coplanar integration design of energy harvesting and strain sensing. Science China Technological Sciences, 2022, 65, 221.	4.0	5
1295	Flexible and Wearable Ultrasound Device for Medical Applications: A Review on Materials, Structural Designs, and Current Challenges. Advanced Materials Technologies, 2022, 7, 2100798.	5.8	26
1296	Smart Textiles for Improved Quality of Life and Cognitive Assessment. Sensors, 2021, 21, 8008.	3.8	8
1297	Flexible, robust, and high-performance gas sensors based on lignocellulosic nanofibrils. Carbohydrate Polymers, 2022, 278, 118920.	10.2	23
1298	Effect of the colloidal graphite filler on the properties of electroconductive polyethylene compositions. Materials Today: Proceedings, 2021, , .	1.8	1
1299	A Wire-Free and Fiber-Based Smart T-Shirt for Real-Time Breathing Rate Monitoring. IEEE Sensors Journal, 2022, 22, 4463-4471.	4.7	4
1300	Fungal electronics. BioSystems, 2022, 212, 104588.	2.0	14
1301	Arbitrary-shape-adaptable strain sensor array with optimized circuit layout via direct-ink-writing: Scalable design and hierarchical printing. Materials and Design, 2022, 214, 110388.	7.0	13
1302	Flexible, stretchable, waterproof (IPX7) electro-thermal films based on graphite nanoplatelets & polyurethane nanocomposites for wearable heaters. Chemical Engineering Journal, 2022, 431, 133990.	12.7	8
1303	Stable, reusable, and rapid response smart pH-responsive cotton fabric based on covalently immobilized with naphthalimide-rhodamine probe. Sensors and Actuators B: Chemical, 2022, 355, 131310.	7.8	17
1304	Solar cells integration in over-molded printed electronics. , 2020, , .		4
1305	Development of an Elastic Piezoelectric Yarn for the Application of a Muscle Patch Sensor. ACS Omega, 2020, 5, 29427-29438.	3.5	6
1306	Structural and Electrical Properties of Graphite Platelet Films Deposited on Low-Density Polyethylene Substrate. Materials Proceedings, 2020, 4, .	0.2	0
1307	WBAN System Organization, Network Performance and Access Control: A Review. , 2021, , .		1

#	ARTICLE	IF	CITATIONS
1308	Exploring Visual Programming Concepts for Smart Textiles: The MYOW Experience. , 2021, , .		0
1309	Preparation and research of flexible graphene/polyvinylidene fluoride electric heating membrane. Journal of the Textile Institute, 2023, 114, 343-350.	1.9	1
1310	Arguments for Emerging Technologies Applications to Improve Manufacturing Warehouse Ergonomics. Advances in Sustainability Science and Technology, 2022, , 115-164.	0.6	1
1311	Characterization of Niâ€Co thin film and its applications to multifunctional substrates of flexible microdevices. Sensors and Actuators A: Physical, 2022, 333, 113295.	4.1	4
1312	Introduction to optical fiber biosensors. , 2022, , 1-16.		1
1313	Thin flexible lab-on-a-film for impedimetric sensing in biomedical applications. Scientific Reports, 2022, 12, 1066.	3.3	0
1314	Electrically Conductive Nanocomposite Fibers for Flexible and Structural Electronics. Applied Sciences (Switzerland), 2022, 12, 941.	2.5	3
1315	Exploring online consumer reviews of wearable technology: The Owlet Smart Sock. Research Journal of Textile and Apparel, 2022, ahead-of-print, .	1.1	2
1316	Influence of Sweat on Joint and Sensor Reliability of E-Textiles. Energies, 2022, 15, 506.	3.1	7
1317	Highly Performed Fiberâ€Based Supercapacitor in a Conjugation of Mesoporous MXene. Advanced Materials Interfaces, 2022, 9, .	3.7	10
1318	Antibacterial Electroconductive Composite Coating of Cotton Fabric. Materials, 2022, 15, 1072.	2.9	15
1319	Development in liquid crystal microcapsules: fabrication, optimization and applications. Journal of Materials Chemistry C, 2022, 10, 413-432.	5.5	16
1320	Novel flexible <scp>piezoelectricâ€conductive</scp> Janus nanofibers integrated membrane with enhanced pressure sensing performance. Journal of Applied Polymer Science, 2022, 139, .	2.6	5
1321	Narrow-bandpass transparent/diffusing materials using soft scattering based on dispersed refractive index difference. Optical Materials Express, 2022, 12, 738.	3.0	2
1322	Advances in Highâ€Performance Autonomous Energy and Selfâ€Powered Sensing Textiles with Novel 3D Fabric Structures. Advanced Materials, 2022, 34, e2109355.	21.0	118
1323	Photo-healable ion gel with high mechanical property, fatigue resistance and shear resistance using a coumarin group containing diblock copolymer in an ionic liquid. European Polymer Journal, 2022, 165, 111002.	5.4	5
1324	Resistant amphiphobic textile coating by plasma induced polymerization of a pyrrole derivative grafted to silica nanoparticles and short fluorinated alkyl chains. Materials Today Communications, 2022, 30, 103171.	1.9	5
1325	Reviewâ€An Overview on Supercapacitors and Its Applications. Journal of the Electrochemical Society, 2022, 169, 020552.	2.9	33

#	ARTICLE	IF	CITATIONS
1326	Flexible, wearable biosensors for digital health. <i>Medicine in Novel Technology and Devices</i> , 2022, 14, 100118.	1.6	25
1327	Study of the optimization of embroidery design parameters for the Technical Embroidery Machine: derivation of the correlation between thread consumption and electrical resistance. <i>Textile Research Journal</i> , 2022, 92, 1550-1564.	2.2	4
1328	Electronic Textiles for Wearable Point-of-Care Systems. <i>Chemical Reviews</i> , 2022, 122, 3259-3291.	47.7	316
1329	Enabling the Utilisation of Highly Conductive but Electrochemically Unstable Current Collector Materials in Textile Composite Supercapacitor Electrodes. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
1330	Flexible Lead-Free Film Capacitor Based on Bim _{0.5} Ti _{0.5} O ₃ -SrTiO ₃ for High-Performance Energy Storage. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
1331	A Hybrid Thread-Based Temperature and Humidity Sensor for Continuous Wound Monitoring. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
1332	All-Textile On-Body Antenna for Military Applications. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2022, 21, 1065-1069.	4.0	20
1333	Photothermal Silk-based Textiles. <i>Fibers and Polymers</i> , 2022, 23, 644-650.	2.1	0
1334	Smart Clothing Framework for Health Monitoring Applications. <i>Signals</i> , 2022, 3, 113-145.	1.9	19
1335	Upconversion under Photon Trapping in ZnO/BN Nanoarray: An Ultrahigh Responsivity Solar-Blind Photodetecting Paper. <i>Small</i> , 2022, 18, e2200563.	10.0	10
1336	The use of mussel-inspired polydopamine interlayer for high-efficiency surface functionalization of PET fabrics. <i>Journal of Polymer Research</i> , 2022, 29, 1.	2.4	2
1337	An Ultra-Low-Cost RCL-Meter. <i>Sensors</i> , 2022, 22, 2227.	3.8	0
1338	Bioinspired lotus fiber-based graphene electronic textile for gas sensing. <i>Cellulose</i> , 2022, 29, 4071-4082.	4.9	4
1339	Fabrication of multifunctional smart polyester fabric via electrochemical deposition of ZnO nano-/microhierarchical structures. <i>Journal of Coatings Technology Research</i> , 2022, 19, 1243-1253.	2.5	4
1340	Ultra-Robust and Extensible Fibrous Mechanical Sensors for Wearable Smart Healthcare. <i>Advanced Materials</i> , 2022, 34, e2107511.	21.0	83
1341	Silver Nanowires and Silanes in Hybrid Functionalization of Aramid Fabrics. <i>Molecules</i> , 2022, 27, 1952.	3.8	2
1342	Boosting the Supercapacitive Performance via Incorporation of Vanadium in Nickel Phosphide Nanoflakes: A High-Performance Flexible Renewable Energy Storage Device. <i>Energy & Fuels</i> , 2022, 36, 4076-4086.	5.1	13
1343	Wearable and Flexible Humidity Sensor Integrated to Disposable Diapers for Wetness Monitoring and Urinary Incontinence. <i>Electronics (Switzerland)</i> , 2022, 11, 1025.	3.1	14

#	ARTICLE	IF	CITATIONS
1344	Effects of Fabrication Techniques and Durability Performance on Resistance of Fibre-based PEDOT:PSS/GO pH Sweat Sensor. Materials Science Forum, 0, 1055, 37-46.	0.3	0
1345	Thermally Drawn Highly Conductive Fibers with Controlled Elasticity. Advanced Materials, 2022, 34, e2201081.	21.0	29
1346	Tracking Eye Movement Using a Composite Magnet. IEEE Transactions on Magnetics, 2022, 58, 1-5.	2.1	7
1347	Progress in recycling and valorization of waste silk. Science of the Total Environment, 2022, 830, 154812.	8.0	27
1348	Stretchable Dual Band PDMS Wearable Antenna Design for ISM Band. , 2021, , .		1
1349	Preliminary Analysis of a Wireless and Wearable Electronic-Textile EASI-Based Electrocardiogram. Frontiers in Cardiovascular Medicine, 2021, 8, 806726.	2.4	1
1350	A Low-Cost Conductive-Textile Based Multifunctional Flexible Capacitive Sensor for Human Motion Tracking. , 2021, , .		3
1351	Recent Advances in Sustainable Wearable Energy Devices with Nanoscale Materials and Macroscale Structures. Advanced Functional Materials, 2022, 32, .	14.9	43
1352	Wearable Pressure Mapping Through Piezoresistive C-PU Foam and Tailor-Made Stretchable e-Textile. IEEE Sensors Journal, 2021, 21, 27374-27384.	4.7	14
1353	Smart E-Textile Systems: A Review for Healthcare Applications. Electronics (Switzerland), 2022, 11, 99.	3.1	36
1354	Recent Development of Flexible Tactile Sensors and Their Applications. Sensors, 2022, 22, 50.	3.8	39
1355	Study the Electrical Properties of Surface Mount Device Integrated Silver Coated Vectran Yarn. Materials, 2022, 15, 272.	2.9	6
1356	New materials and their application in the design and production of high-performance textile products. Journal of Textile Engineering & Fashion Technology, 2021, 7, 195-202.	0.3	0
1357	The E-Textile for Biomedical Applications: A Systematic Review of Literature. Diagnostics, 2021, 11, 2263.	2.6	6
1358	Highly stretchable conductive fabric using knitted cotton/lycra treated with polypyrrole/silver NPs composites post-treated with PEDOT:PSS. Journal of Industrial Textiles, 2022, 51, 4571S-4588S.	2.4	6
1359	Flexible Integrated Battery on System-in-Package (SiP) for Internet of Things (IoT) and Smart Wearables. , 2021, , .		0
1360	Improvement of Stretchable and Washable Carbonâ€Nanotubeâ€Based Textile Supercapacitors by using Molybdenum Trioxide Nanoflakes and Prewashing Treatment. Advanced Materials Technologies, 2022, 7, .	5.8	4
1361	Development and Investigation of aâ€Textile Heating Element Ensuring Thermal Physiological Comfort. Fibres and Textiles in Eastern Europe, 2020, 28, 56-62.	0.5	1

#	ARTICLE	IF	CITATIONS
1362	Development of Stainless Steel Yarn with Embedded Surface Mounted Light Emitting Diodes. Materials, 2022, 15, 2892.	2.9	9
1363	Mapping the research status and dynamic frontiers of functional clothing: a review via bibliometric and knowledge visualization. International Journal of Clothing Science and Technology, 2022, ahead-of-print, .	1.1	2
1364	A dynamic mechanical stimulated and thermal-healed infrared modulator based on elastomer matrix with metal layer inspired by squid skin. Materials Today Chemistry, 2022, 24, 100911.	3.5	2
1367	The Current and Future Role of Technology in Respiratory Care. Pulmonary Therapy, 2022, 8, 167-179.	2.2	7
1368	Carbon nanomaterial-based sensors for wearable health and environmental monitoring. , 2022, , 247-258.		2
1369	Smart Textiles. , 2022, , .		0
1370	Reverse Electrowetting-on-Dielectric Energy Harvesting Using 3-D Printed Flexible Electrodes for Self-Powered Wearable Sensors. , 2022, 6, 1-4.		4
1371	Overview of the Influence of Silver, Gold, and Titanium Nanoparticles on the Physical Properties of PEDOT:PSS-Coated Cotton Fabrics. Nanomaterials, 2022, 12, 1609.	4.1	17
1372	Auxetic Wearable Sensors Based on Flexible Triboelectric Polymers for Movement Monitoring. ACS Applied Polymer Materials, 2022, 4, 4339-4346.	4.4	8
1373	High-Performance Crack-Resistant Elastomer with Tunable "J-Shaped" Stress-Strain Behavior Inspired by the Brown Pelican. ACS Applied Materials & Interfaces, 2022, 14, 22489-22496.	8.0	5
1374	Stretchable "fiber-shaped" aqueous aluminum ion batteries. EcoMat, 2022, 4, .	11.9	14
1375	Flexible lead-free film capacitor based on BiMg _{0.5} Ti _{0.5} O ₃ -SrTiO ₃ for high-performance energy storage. Chemical Engineering Journal, 2022, 445, 136728.	12.7	25
1376	Smart IoT system empowered by customized energy-aware wireless sensors integrated in graphene-based tissues to improve workers thermal comfort. Journal of Cleaner Production, 2022, 360, 132132.	9.3	4
1377	Electrically heated wearable textiles produced by conventional pigmented inks containing carbon black. Pigment and Resin Technology, 2022, 51, 390-396.	0.9	3
1378	Optical modeling for electromagnetic Heisenberg ferromagnetic microscale in Heisenberg group. Waves in Random and Complex Media, 0, , 1-28.	2.7	4
1379	Flexible and Stretchable Electrically Conductive Polymer Materials for Physical Sensing Applications. Polymer Reviews, 2023, 63, 67-126.	10.9	31
1380	New Method to Detect Zeolite Breath Sensor Response Based on Low-Power Square-Wave Sources. European Journal of Education and Pedagogy, 2019, 4, 152-154.	0.3	0
1381	Wireless power transfer topology analysis for inkjet-printed coil. Open Engineering, 2022, 12, 373-380.	1.6	0

#	ARTICLE	IF	CITATIONS
1382	Textile Star-Shaped Supershaped Patch Antenna for 5G Applications. , 2022, , .		1
1383	Carbon-based polymer nanocomposites for electronic textiles (e-textiles). , 2022, , 443-482.		3
1384	Nanomaterials and printing techniques for 2D and 3D soft electronics. Nano Futures, 0, , .	2.2	1
1385	Smart coating in protective clothing for firefighters: An overview and recent improvements. Journal of Industrial Textiles, 2022, 51, 7428S-7454S.	2.4	7
1386	Interconnecting embroidered hybrid conductive yarns by ultrasonic plastic welding for e-textiles. Textile Reseach Journal, 0, , 004051752211010.	2.2	4
1387	Optimization of Knitted Structures for E-Textiles Applications. , 2022, 15, .		1
1388	Study of low-temperature interconnection techniques for instant assembly of electronics on stretchable e-textile ribbons. Textile Reseach Journal, 0, , 004051752210847.	2.2	3
1389	ZnO-TiO ₂ hybrid nanocrystal-loaded, wash durable, multifunction cotton textiles. Cellulose, 2022, 29, 5923-5941.	4.9	8
1390	Stress concentration-relocating interposer in electronic textile packaging using thermoplastic elastic polyurethane film with via holes for bearing textile stretch. Scientific Reports, 2022, 12, .	3.3	3
1391	Fibre-based wearable electronic technology for personal protective clothing. , 2022, , 511-547.		2
1392	Protective smart textiles for sportswear. , 2022, , 317-345.		3
1393	Testing and analysis of nanoparticles-based textrodes for physiological signals. Materials Today: Proceedings, 2022, , .	1.8	0
1394	Woven eTextiles in HCI â€” a Literature Review. , 2022, , .		12
1395	Fabrication of stainless-steel microfibers with amorphous-nanosized microstructure with enhanced mechanical properties. Scientific Reports, 2022, 12, .	3.3	6
1396	Durability Study of Thermal Transfer Printed Textile Electrodes for Wearable Electronic Applications. ACS Applied Materials & Interfaces, 2022, 14, 29144-29155.	8.0	17
1397	Advances in the Robustness of Wearable Electronic Textiles: Strategies, Stability, Washability and Perspective. Nanomaterials, 2022, 12, 2039.	4.1	18
1398	Low-temperature transient liquid phase bonding via electroplated Sn/Inâ€“Sn metallization. Journal of Materials Research and Technology, 2022, 19, 2510-2515.	5.8	6
1399	4D-printed pneumatic soft actuators modeling, fabrication, and control. , 2022, , 103-140.		0

#	ARTICLE	IF	CITATIONS
1401	Digitalization in the textiles and clothing sector. , 2022, , 255-271.		5
1402	Exploring smart graphitic carbon nitride material toward flexible energy storage supercapacitors. , 2022, , 21-37.		0
1403	Development of A Novel Ultra-Wideband Textile-Based Metamaterial Absorber for mm-wave Band Applications. , 2022, , .		2
1404	Methods for the Capacity Increasing of Textile Capacitors. , 2022, , .		2
1405	Current Carrying Capacity of Inkjet-Printed Nano-Silver Interconnects on Mesoporous PET Substrate. , 2022, , .		3
1406	Weaving method-based capacitive yarn touch sensor fabricated of Cu/PET filament composite yarn. Journal of the Textile Institute, 2023, 114, 801-810.	1.9	1
1407	Continuous Nanoparticle Patterning Strategy in Layerâ€Structured Nanocomposite Fibers. Advanced Functional Materials, 2022, 32, .	14.9	5
1408	Smart Textile Materials for Fashion. Advances in IT Standards and Standardization Research Series, 2022, , 223-237.	0.2	0
1409	Photochromic Textiles Based upon Aqueous Blends of Oxygen-Deficient WO ₃ -x and TiO ₂ Nanocrystals. Textiles, 2022, 2, 382-394.	4.1	6
1410	The role of nanotechnology based wearable electronic textiles in biomedical and healthcare applications. Materials Today Communications, 2022, 32, 104055.	1.9	19
1411	A review on bending analysis of polymer-based flexible patch antenna for IoT and wireless applications. Materials Today: Proceedings, 2022, 66, 3511-3516.	1.8	5
1412	Electronic textiles for electrocardiogram monitoring: A review on the structureâ€property and performance evaluation from fiber to fabric. Textile Research Journal, 2023, 93, 878-910.	2.2	7
1413	A Piezoelectric Smart Textile for Energy Harvesting and Wearable Self-Powered Sensors. Energies, 2022, 15, 5541.	3.1	14
1414	Graphene-Based Fiber Supercapacitors. Accounts of Materials Research, 2022, 3, 922-934.	11.7	6
1415	Magnetostrictive and Electroconductive Stressâ€Sensitive Functional Spider Silk. Advanced Functional Materials, 2022, 32, .	14.9	13
1416	Reinforced Structure Effect on Thermo-Oxidative Stability of Polymer-Matrix Composites: 2-D Plain Woven Composites and 2.5-D Angle-Interlock Woven Composites. Polymers, 2022, 14, 3454.	4.5	3
1417	Highâ€performance electric heating yarns based on grapheneâ€coated cotton fibers. Journal of Applied Polymer Science, 2022, 139, .	2.6	3
1419	Tough, anti-freezing and conductive ionic hydrogels. NPG Asia Materials, 2022, 14, .	7.9	22

#	ARTICLE	IF	CITATIONS
1420	Consumer reactions to high-tech wearable textiles: perceived product importance, consumption benefits and price perceptions. Journal of the Textile Institute, 2023, 114, 1059-1069.	1.9	1
1421	Thermoelectric Energy Micro Harvesters with Temperature Sensors Manufactured Utilizing the CMOS-MEMS Technique. Micromachines, 2022, 13, 1258.	2.9	2
1422	Temperature-tolerant flexible supercapacitor integrated with a strain sensor using an organohydrogel for wearable electronics. Chemical Engineering Journal, 2022, 450, 138379.	12.7	36
1423	Conventional Substrates for Printed Electronics. , 2022, , 243-289.		0
1424	Ionic-electronic Conductive Fabric Electrodes for Wearable Biopotential Monitoring. , 2022, , .		0
1425	Electronic Features of Cotton Fabric e-Textiles Prepared with Aqueous Carbon Nanofiber Inks. , 2023, 1, 122-131.		4
1426	Modification of Polymeric Surfaces with Ultrashort Laser Pulses for the Selective Deposition of Homogeneous Metallic Conductive Layers. Materials, 2022, 15, 6572.	2.9	1
1427	Recent Progress in Aqueous Ammonium-Ion Batteries. ACS Omega, 2022, 7, 33732-33748.	3.5	12
1428	A Review of Stimuli-Responsive Smart Materials for Wearable Technology in Healthcare: Retrospective, Perspective, and Prospective. Molecules, 2022, 27, 5709.	3.8	24
1429	Flexible biochemical sensors for point-of-care management of diseases: a review. Mikrochimica Acta, 2022, 189, .	5.0	2
1430	Design and Closed-Loop Motion Planning of an Untethered Swimming Soft Robot Using 2D Discrete Elastic Rods Simulations. Advanced Intelligent Systems, 2022, 4, .	6.1	6
1431	Real-Time Position Detecting of Large-Area CNT-based Tactile Sensors based on Artificial Intelligence. Journal of Korean Institute of Metals and Materials, 2022, 60, 793-799.	1.0	1
1432	Toward autonomous wearable triboelectric systems integrated on textiles. IScience, 2022, 25, 105264.	4.1	2
1433	Textile Materials for Wireless Energy Harvesting. Electronic Materials, 2022, 3, 301-331.	1.9	4
1434	Highly Scalable, Sensitive and Ultraflexible Graphene-Based Wearable e-Textiles Sensor for Bio-Signal Detection. , 2022, 1, .		15
1435	SenSequins: Smart Textile Using 3D Printed Conductive Sequins. , 2022, , .		2
1436	Investigating Properties of Electrically Conductive Textiles: A Review. Tekstilec, 2022, 65, 194-217.	0.6	2
1437	Semiconductor Multimaterial Optical Fibers for Biomedical Applications. Biosensors, 2022, 12, 882.	4.7	5

#	ARTICLE	IF	CITATIONS
1438	The Influence of Textile Substrates on the Performance of Textronic RFID Transponders. <i>Materials</i> , 2022, 15, 7060.	2.9	4
1439	Design for Recycling of E-Textiles: Current Issues of Recycling of Products Combining Electronics and Textiles and Implications for a Circular Design Approach. , 0, , .		0
1440	Recent Progress on Flexible Room-Temperature Gas Sensors Based on Metal Oxide Semiconductor. <i>Nano-Micro Letters</i> , 2022, 14, .	27.0	67
1441	Carbon-Yarn-Based Supercapacitors with In Situ Regenerated Cellulose Hydrogel for Sustainable Wearable Electronics. <i>ACS Applied Energy Materials</i> , 2022, 5, 11987-11996.	5.1	16
1442	High-performance flexible electrothermal Joule heaters from laser reduced F-N Co-doped graphene oxide with extended Sp ² networks. <i>FlatChem</i> , 2022, 36, 100437.	5.6	6
1443	Adhesive, multifunctional, and wearable electronics based on MXene-coated textile for personal heating systems, electromagnetic interference shielding, and pressure sensing. <i>Journal of Colloid and Interface Science</i> , 2023, 630, 23-33.	9.4	20
1444	A High-Performance Wearable Ag/Ti ₃ C ₂ T _x MXene-Based Fiber Sensor for Temperature Sensing, Pressure Sensing, and Human Motion Detection. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-8.	4.7	5
1445	Application of Unconditioned Nanostructured Thermoplastic-Based Strain Gauge Sensor in Wearable Electronics. <i>IEEE Sensors Journal</i> , 2022, 22, 24019-24026.	4.7	4
1446	Controlling mechanical properties of ultrahigh molecular weight ion gels by chemical structure of ionic liquids and monomers. <i>Soft Matter</i> , 2022, 18, 8582-8590.	2.7	4
1447	Preparation of Conductive Screen-Printing Ink for High-Performance Bendable and Wearable ECG Electrodes on Fabric Substrates. <i>IEEE Sensors Journal</i> , 2022, 22, 23683-23691.	4.7	3
1448	Conducting Polymers: A Versatile Material for Biomedical Applications. <i>ChemistrySelect</i> , 2022, 7, .	1.5	7
1449	Industry 4.0 in Textile and Apparel Industry: A Systematic Literature Review and Bibliometric Analysis of Global Research Trends. <i>Vision</i> , 0, , 097226292211302.	2.4	1
1450	Stretchable Conductive Tubular Composites Based on Braided Carbon Nanotube Yarns with an Elastomer Matrix. <i>ACS Omega</i> , 2022, 7, 40766-40774.	3.5	1
1451	Wireless Communication Platform Based on an Embroidered Antenna-Sensor for Real-Time Breathing Detection. <i>Sensors</i> , 2022, 22, 8667.	3.8	5
1452	OTFT Biosensor on Flexible Substrates for Human Health Monitoring: a Review. <i>IEEE Sensors Journal</i> , 2023, 23, 997-1011.	4.7	4
1453	PEDOT:PSS-treated laser-induced graphene-based smart textile dry electrodes for long-term ECG monitoring. <i>New Journal of Chemistry</i> , 2023, 47, 1832-1841.	2.8	2
1454	Single-arm diagnostic electrocardiography with printed graphene on wearable textiles. <i>Sensors and Actuators A: Physical</i> , 2023, 349, 114058.	4.1	11
1455	High porous, ultra-thin paper sensors â An option for successful sensor integration. <i>Sensors and Actuators A: Physical</i> , 2023, 350, 114098.	4.1	2

#	ARTICLE	IF	CITATIONS
1456	Design of exergames controlled by wearable devices for sensorimotor skills: a framework proposal. , 2022, , .		0
1457	Toward Sustainable Wearable Electronic Textiles. ACS Nano, 2022, 16, 19755-19788.	14.6	42
1458	Methods for Gastrointestinal Endoscopy Quantification: A Focus on Hands and Fingers Kinematics. Sensors, 2022, 22, 9253.	3.8	0
1459	Flexible piezoelectric coatings on textiles for energy harvesting and autonomous sensing applications: a review. Journal of Coatings Technology Research, 2023, 20, 141-172.	2.5	4
1460	One-step metallization of weft-knitted fabrics for wearable biaxial strain sensors. Scientific Reports, 2022, 12, .	3.3	0
1461	The application of robotics and artificial intelligence in embroidery: challenges and benefits. Assembly Automation, 2022, 42, 851-868.	1.7	2
1462	Conductive Textiles for Signal Sensing and Technical Applications. Signals, 2023, 4, 1-39.	1.9	6
1463	Stretchable One-Dimensional Conductors for Wearable Applications. ACS Nano, 2022, 16, 19810-19839.	14.6	21
1464	Destructive-Treatment-Free Rapid Polymer-Assisted Metal Deposition for Versatile Electronic Textiles. ACS Applied Materials & Interfaces, 2022, 14, 56193-56202.	8.0	6
1465	Fiber/Yarn-Based Triboelectric Nanogenerators (TENGs): Fabrication Strategy, Structure, and Application. Sensors, 2022, 22, 9716.	3.8	9
1466	A flexible piezoelectric generator based on KNN/PVDF composite films: Role of KNN concentration on the piezoelectric performance of generator. Chinese Journal of Physics, 2023, 84, 198-215.	3.9	3
1467	Fabrication of Conductive Fabrics Based on SWCNTs, MWCNTs and Graphene and Their Applications: A Review. Polymers, 2022, 14, 5376.	4.5	9
1469	Fabrication of Multifunctional Electronic Textiles Using Oxidative Restructuring of Copper into a Cu-Based Metal-Organic Framework. Journal of the American Chemical Society, 2022, 144, 23297-23312.	13.7	16
1470	Posture Monitoring and Correction Exercises for Workers in Hostile Environments Utilizing Non-Invasive Sensors: Algorithm Development and Validation. Sensors, 2022, 22, 9618.	3.8	1
1471	Factors Affecting the Hydrophobic Property of Stearic Acid Self-Assembled on the TiO ₂ Substrate. ACS Omega, 2022, 7, 48184-48191.	3.5	2
1472	Pregnancy in the time of COVID-19: towards Fetal monitoring 4.0. BMC Pregnancy and Childbirth, 2023, 23, .	2.4	3
1473	Textile Electronic Circuits from Laser-Patterned Conductive Fabric. Advanced Engineering Materials, 2023, 25, .	3.5	5
1474	SWCNTs/PEDOT: PSS Coated Cotton for Wearable Clothes and Supercapacitor Applications. Sustainability, 2023, 15, 889.	3.2	8

#	ARTICLE	IF	CITATIONS
1475	Advances in Carbon-Based Resistance Strain Sensors. ACS Applied Electronic Materials, 2023, 5, 674-689.	4.3	11
1476	A review of wearable carbon-based sensors for strain detection: fabrication methods, properties, and mechanisms. Textile Research Journal, 2023, 93, 2918-2940.	2.2	5
1477	Effect of multiscale hybrid fillers on the electrical conductivity of silicone-based conductive textiles. Molecular Crystals and Liquid Crystals, 0, , 1-8.	0.9	0
1478	Isophorone-Based Quaternary Compound Modified Graphene for Machine Washable Nonwoven Piezoresistive Sensors. Advanced Materials Interfaces, 0, , 2202020.	3.7	0
1480	Collaborative design principles for smart clothing. , 2023, , 283-325.		0
1482	Introduction of smart coatings in various directions. , 2023, , 219-238.		1
1483	Enhanced thermoelectric power factor of Se-doped SnS nanostructures for flexible thermoelectric applications. Journal of Materials Science: Materials in Electronics, 2023, 34, .	2.2	2
1484	Robots and Intelligent Medical Devices in the Intensive Care Unit: Vision, State of the Art, and Economic Analysis. IEEE Transactions on Medical Robotics and Bionics, 2023, 5, 2-17.	3.2	3
1485	Fabric Electrode Monitoring of Dynamic and Static ECG Signal and Comfort Performance. Coatings, 2023, 13, 289.	2.6	2
1486	Fabric Variation and Visualization Using Light Dependent Factor. Lecture Notes in Electrical Engineering, 2023, , 293-302.	0.4	0
1487	Recent Advances and Challenges Toward Application of Fibers and Textiles in Integrated Photovoltaic Energy Storage Devices. Nano-Micro Letters, 2023, 15, .	27.0	34
1488	2D materials for flexible electronics. , 2023, , 169-206.		1
1489	Smart electronic textiles. , 2023, , 395-412.		1
1490	A Chronology of Wearable E-Smart Textiles and the Issues to be Resolved for Take off. Journal of Fiber Science and Technology, 2023, 79, P-59-P-71.	0.0	0
1491	Recent advances in inkjet-printing technologies for flexible/wearable electronics. Nanoscale, 2023, 15, 6025-6051.	5.6	20
1492	Flexible high-capacity and long-cyclability hydrogel batteries enabled by polyvalent vanadium ion redox chemistry. Journal of Power Sources, 2023, 561, 232736.	7.8	2
1493	Use of accelerometers and inertial measurement units to quantify movement of tactical athletes: A systematic review. Applied Ergonomics, 2023, 109, 103991.	3.1	4
1494	Strain visualization enabled in dual-wavelength InGaN/GaN multiple quantum wells Micro-LEDs by piezo-phototronic effect. Nano Energy, 2023, 109, 108283.	16.0	4

#	ARTICLE	IF	CITATIONS
1495	Multifunctional carbon/epoxy composites with power transmission capabilities. Materials Today Communications, 2023, 35, 105665.	1.9	1
1496	One-step fabrication of all-in-one flexible nanofibrous lithium-ion battery. Journal of Energy Storage, 2023, 65, 107237.	8.1	2
1497	Mechanical energy harvesting and self-powered electronic applications of textile-based piezoelectric nanogenerators: A systematic review. Nano Energy, 2023, 111, 108414.	16.0	27
1498	Extended multiscale isogeometric analysis for mechanical simulation of two-dimensional periodic heterogeneous materials. Composite Structures, 2023, 315, 116988.	5.8	0
1499	Anomaly Detection Using Smart Shirt and Machine Learning: A Systematic Review. Communications in Computer and Information Science, 2022, , 470-485.	0.5	0
1500	Yapısal ve Giyilebilir Teknolojiler. Düzce Üniversitesi Bilim Ve Teknoloji Dergisi, 2023, 11, 89-98.	0.7	0
1501	Graphene in wearable textile sensor devices for healthcare. Textile Progress, 2022, 54, 201-245.	2.0	2
1502	Hybrid conductive cotton coated with SWCNTs/PEDOT:PSS for smart clothes and supercapacitor applications. Journal of Materials Science: Materials in Electronics, 2023, 34, .	2.2	4
1503	Enhancement of the vertical thermal conductivity in conductive silicone composites using hybrid fillers and double-sided coating process. Molecular Crystals and Liquid Crystals, 2023, 759, 99-105.	0.9	0
1504	Applications of Triboelectric Nanogenerators in Bone Tissue Engineering. Advanced Materials Technologies, 2023, 8, .	5.8	1
1505	Recent Developments of Polymer Electrolyte Membrane Fuel Cell Design. Journal of Electrochemical Science and Technology, 2023, 14, 120-130.	2.2	4
1506	End-User Assessment of an Innovative Clothing-Based Sensor Developed for Pressure Injury Prevention: A Mixed-Method Study. International Journal of Environmental Research and Public Health, 2023, 20, 4039.	2.6	3
1507	Progress in physiological textile sensors for biomedical applications. , 2023, , 333-372.		0
1508	Use of piezoelectric polymers for smart textiles. , 2023, , 499-519.		0
1509	Recent Advances in Nanomaterials Used for Wearable Electronics. Micromachines, 2023, 14, 603.	2.9	5
1510	SenGlove" A Modular Wearable Device to Measure Kinematic Parameters of The Human Hand. Bioengineering, 2023, 10, 324.	3.5	1
1512	Lower body kinematics estimation during walking using an accelerometer. Journal of Biomechanics, 2023, 151, 111548.	2.1	0
1513	Corrosion behavior of silver-coated conductive yarn. Frontiers in Chemistry, 0, 11, .	3.6	2

#	ARTICLE	IF	CITATIONS
1514	Key factors and performance criteria of wearable strain sensors based on polymer nanocomposites. Nano Futures, 2023, 7, 022001.	2.2	2
1515	Advances in Ag ₂ Se-based thermoelectrics from materials to applications. Energy and Environmental Science, 2023, 16, 1870-1906.	30.8	35
1516	Research on the Planar Electrical Anisotropy of Conductive Woven Fabrics. Advanced Engineering Materials, 2023, 25, .	3.5	0
1517	Embroidery on Textiles as a Smart Solution for Wearable Applications.. ù...ø¬ù,,ø© øšù,,ø³øµù...ùšù... øšù,,ø¬ù,,ùšø©, 2018, 8,		
1518	Advanced and Smart Textiles during and after the COVID-19 Pandemic: Issues, Challenges, and Innovations. Healthcare (Switzerland), 2023, 11, 1115.	2.0	3
1519	Minireview on Design of Flexible Composite Phase Change Materials to Various Energy Applications: Progresses and Perspectives. Energy & Fuels, 2023, 37, 6348-6364.	5.1	7
1520	E-Textile by Printing an All-through Penetrating Copper Complex Ink. ACS Applied Materials & Interfaces, 2023, 15, 21651-21658.	8.0	6
1521	Novel Approach to Utilise Highly Conductive but Electrochemically Unstable Current Collector Materials in Textile Supercapacitor Electrodes. Flexible and Printed Electronics, 0, , .	2.7	1
1522	Connecting surface-mounted electronic elements with amber strand metal-clad conductive fibers by reflow soldering. Textile Reseach Journal, 2023, 93, 4068-4079.	2.2	3
1523	Smart e-textiles for personalized healthcare diagnosis and management. AIP Conference Proceedings, 2023, , .	0.4	0
1524	Stretchable fabric-based lithium-ion battery. Extreme Mechanics Letters, 2023, 61, 102026.	4.1	2
1525	Design, fabrication, characterization and properties of metallic and conductive smart polymeric textiles for multifunctional applications. Nano Structures Nano Objects, 2023, 35, 100982.	3.5	13
1526	Green Nanomaterials for Smart Textiles Dedicated to Environmental and Biomedical Applications. Materials, 2023, 16, 4075.	2.9	3
1527	The Security Constructions and Enhancements of Smart Wearable Devices in Modern Technologies and Health Monitoring System. EAI/Springer Innovations in Communication and Computing, 2023, , 461-471.	1.1	0
1528	Flexible Coated Conductive Textiles as Ohmic Heaters in Car Seats. Applied Sciences (Switzerland), 2023, 13, 6874.	2.5	1
1529	Kombucha electronics: electronic circuits on kombucha mats. Scientific Reports, 2023, 13, .	3.3	1
1530	Nano Materials in Textile Processing. Textile Science and Clothing Technology, 2023, , 323-344.	0.5	0
1531	Development of polypyrrole-coated cotton thermoelectric fabrics. Journal of the Textile Institute, 0, , 1-12.	1.9	1

#	ARTICLE	IF	CITATIONS
1532	Emission and energy transfer investigation of non-conjugated total carbon configuration between BODIPY and naphthalimide. Journal of Chemical Sciences, 2023, 135, .	1.5	4
1533	Thin film biosensors for medical diagnostics: Journey so far. , 2023, , .		0
1534	Manipulation of Thermoresponsive Polymers Using Biomolecules. ACS Applied Polymer Materials, 2023, 5, 3181-3200.	4.4	2
1535	Flexible Wearable Electronic Fabrics with Dual Functions of Efficient EMI Shielding and Electric Heating for Triboelectric Nanogenerators. ACS Applied Materials & Interfaces, 2023, 15, 22762-22776.	8.0	8
1536	An origami-based technique for simple, effective and inexpensive fabrication of highly aligned far-field electrospun fibers. Scientific Reports, 2023, 13, .	3.3	1
1537	Review of MXenes as a component in smart textiles and an adsorbent for textile wastewater remediation. Chinese Chemical Letters, 2024, 35, 108533.	9.0	2
1538	Functional Textiles with Smart Properties: Their Fabrications and Sustainable Applications. Advanced Functional Materials, 2023, 33, .	14.9	13
1539	ATMEGA 328-based Gas Leakage Monitoring and Alerting IoT System with SMS Notification. , 2023, , .		0
1540	Advances and Future Prospects of Wearable Textileâ€and Fiberâ€Based Solar Cells. Solar Rrl, 2023, 7, .	5.8	7
1541	Highly Sensitive and Wearable ZnOâ€Graphene Nanocomposite-Based Strain Sensors for Human Motion Detection. IEEE Sensors Journal, 2023, 23, 14226-14233.	4.7	0
1542	Biofluidâ€Activated Biofuel Cells, Batteries, and Supercapacitors: A Comprehensive Review. Advanced Materials, 2023, 35, .	21.0	10
1543	BaskÄ± TasarÄ±mÄ± ve NakÄ±ÅŸ UygulamasÄ±nda Fosforlu Ä°plik KullanÄ±mÄ±. Art-e Sanat Dergisi, 2023, 16, 228-241.		0
1544	The Influence of the Washing Process on the Impedance of Textronic Radio Frequency Identification Transponder Antennas. Materials, 2023, 16, 4639.	2.9	2
1546	FabriCar: Enriching the User Experience of In-Car Media Interactions with Ubiquitous Vehicle Interiors using E-textile Sensors. , 2023, , .		1
1547	Smart textiles for self-powered biomonitoring. , 2023, 1, .		38
1548	Trends in Graphene-Based E-Skin and Artificial Intelligence for Biomedical Applicationsâ€A Review. IEEE Sensors Journal, 2023, 23, 18963-18976.	4.7	6
1549	Recent progress in energy harvesting systems for wearable technology. Energy Strategy Reviews, 2023, 49, 101124.	7.3	16
1550	Requirements, challenges, and novel ideas for wearables on power supply and energy harvesting. Nano Energy, 2023, 115, 108715.	16.0	11

#	ARTICLE	IF	CITATIONS
1551	Nanoengineering Approach toward High Power Factor Ag ₂ Se/Se Composite Films for Flexible Thermoelectric Generators. ACS Applied Materials & Interfaces, 2023, 15, 36587-36593.	8.0	1
1552	Flexible Magnetic Field Nanosensors for Wearable Electronics: A Review. ACS Applied Nano Materials, 2023, 6, 13732-13765.	5.0	3
1553	Anisotropic Pressure Sensors Fabricated by 3D Printing-Aligned Carbon Nanotube Composites. Advanced Engineering Materials, 2023, 25, .	3.5	1
1554	Bioinspired dry-state polylactic acid adhesives-based wearable sensor with reversible adhesive performance in harsh environments via building hierarchical liquid metal bead structure. Composites Science and Technology, 2023, 242, 110207.	7.8	2
1555	Synergistic combination of carbon conductive and flexural additives for flexible screen-printed supercapacitor electrodes. Carbon Trends, 2023, 12, 100287.	3.0	0
1556	A Three-Dimensional Fiber-Network-Reinforced Composite Solid-State Electrolyte from Waste Acrylic Fibers for Flexible All-Solid-State Lithium Metal Batteries. ACS Applied Materials & Interfaces, 2023, 15, 38507-38521.	8.0	1
1557	Polyaniline for Smart Textile Applications. , 0, , .		0
1558	P46: RGB Pixel Aging in OLED Displays. Digest of Technical Papers SID International Symposium, 2023, 54, 1685-1688.	0.3	0
1559	Flexible Nanobiosensors in Biomolecular Detection and Point of Care Testing. , 2023, , 175-198.		0
1560	Systematic Evaluation of Research Progress in the Textile Field over the Past 10 Years: Bibliometric Study on Smart Textiles and Clothing. Processes, 2023, 11, 2797.	2.8	0
1561	In Pursuit of Next Generation N-Heterocyclic Carbene-Stabilized Copper and Silver Precursors for Metalorganic Chemical Vapor Deposition and Atomic Layer Deposition Processes. Chemistry, 2023, 5, 2038-2055.	2.2	0
1562	Microfluidic Wearable Devices for Sports Applications. Micromachines, 2023, 14, 1792.	2.9	1
1563	A siloxane interlayer approach to enhance surface metallization on polyamide fabrics via electroless copper deposition. Surfaces and Interfaces, 2023, 42, 103434.	3.0	0
1564	A novel structural design of cellulose-based conductive composite fibers for wearable e-textiles. Carbohydrate Polymers, 2023, 321, 121308.	10.2	2
1565	Smart Textiles: A Review and Bibliometric Mapping. Applied Sciences (Switzerland), 2023, 13, 10489.	2.5	3
1566	Prediction of Electrical Resistance with Conductive Sewing Patterns by Combining Artificial Neural Networks and Multiple Linear Regressions. Polymers, 2023, 15, 4138.	4.5	0
1567	Coating of Felt Fibers with Carbon Nanotubes and PEDOT with Different Counterions: Temperature and Electrical Field Effects. Polymers, 2023, 15, 4075.	4.5	0
1568	Smart sensing flexible sutures for glucose monitoring in house sparrows. Analyst, The, 0, , .	3.5	0

#	ARTICLE	IF	CITATIONS
1569	Sequential Laser-Burned Lignin and Hydrogen Evolution-Assisted Copper Electrodeposition to Manufacture Wearable Electronics. ACS Applied Materials & Interfaces, 2023, 15, 46571-46578.	8.0	0
1570	Highly Stretchable Stress–Strain Sensor from Elastomer Nanocomposites with Movable Cross-links and Ketjenblack. ACS Polymers Au, 2023, 3, 394-405.	4.1	3
1571	Wearable wireless networks based on textile sensors. AIP Conference Proceedings, 2023, , .	0.4	0
1572	E-textiles: a revolutionary technology. International Journal of Systems Assurance Engineering and Management, 0, , .	2.4	1
1573	Modulating the Configurations of “Gel-Type” Soft Silicone Rubber for Electro-Mechanical Energy Generation Behavior in Wearable Electronics. Gels, 2023, 9, 686.	4.5	2
1574	Smart Fabric and E-Textile Sensor Technology for Wearables to Measure High Pressure. IEEE Transactions on Instrumentation and Measurement, 2023, 72, 1-9.	4.7	0
1575	Influence of yarn geometry on electrical properties of silver-coated nylon filaments for e-textiles: a fundamental study. Journal of Industrial Textiles, 2023, 53, .	2.4	0
1576	Reactive Fungal Wearable. Emergence, Complexity and Computation, 2023, , 93-104.	0.3	0
1577	ZnO-based flexible UV photodetector for wearable electronic applications. IEEE Sensors Journal, 2023, , 1-1.	4.7	0
1579	ç”µå~¾ç²ç»†å“çš,,è¾è®äŽé†æ† Science China Materials, 2023, 66, 3782-3794.	6.3	1
1580	Manufacturing wearable electronics by direct copper electrodeposition. , 2023, , .		0
1581	Revolutionizing capacitor technology: conductive cotton fabrics based graphite as supercapacitor capacitors. Carbon Letters, 2024, 34, 95-107.	5.9	0
1583	Characterization and Multifunction Application of Metalized Textile Materials. Advanced Structured Materials, 2023, , 131-161.	0.5	0
1584	Progress of Triboelectric Nanogenerators with Environmental Adaptivity. Advanced Functional Materials, 2024, 34, .	14.9	2
1585	Cobalt–Based Metallic Glass Microfibers for Flexible Electromagnetic Shielding and Soft Magnetic Properties. Advanced Electronic Materials, 2024, 10, .	5.1	0
1586	A Refined Quasi–Static Method for Precise Determination of Piezoelectric Coefficient of Nanostructured Standard and Inclined Thin Films. , 2024, 3, .		0
1587	Electrical Conductivity and Antibacterial Activity of Woven Fabrics through Quercetin-Assisted Thermal Reduction of a Graphene Oxide Coating. Materials, 2023, 16, 7184.	2.9	0
1588	Mapping the knowledge domains of medical textiles: A review. Medicine (United States), 2023, 102, e35956.	1.0	1

#	ARTICLE	IF	CITATIONS
1589	Systematic Literature Review on the Advances of Wearable Technologies. Lecture Notes in Computer Science, 2023, , 78-95.	1.3	0
1590	The Modification of Cotton Fabric by Silane Coupling Agent for Improving the Durability of UV Curing Ag@rGO Coating. Fibers and Polymers, 0, , .	2.1	0
1591	Bulk Schottky Junctionsâ€Based Flexible Triboelectric Nanogenerators to Power Backscatter Communications in Green 6G Networks. Advanced Science, 2024, 11, .	11.2	2
1592	Hierarchically Interpenetrated and Reentrant Microcellular Frameworks for Stretchable Lithium Metal Batteries. Small, 0, , .	10.0	0
1593	Design consideration and recent developments in flexible, transparent and wearable antenna technology: A review. Transactions on Emerging Telecommunications Technologies, 2024, 35, .	3.9	1
1594	Passivating Polycrystalline Copper with an Ultrathin Samarium Layer. Advanced Engineering Materials, 2024, 26, .	3.5	1
1595	Engineering heterogeneous domains and interfaces in shape memory fibers for tunable responsive behaviors. Chemical Engineering Journal, 2024, 480, 147936.	12.7	1
1596	Nickel/silver in-situ modification of wearable and stretchable electrodes for textile-based piezoelectric applications. Journal of the Textile Institute, 0, , 1-14.	1.9	0
1597	Highly Flexible, Durable, Thermally Stable Multi-Functional Carbon Fabric Applications for Wearable Electronics. Materials Science Forum, 0, 1109, 105-113.	0.3	0
1598	Silicon Nanowire Array Weaved by Carbon Chains for Stretchable Lithiumâ€Ion Battery Anode. Small, 0, , .	10.0	0
1599	Analysis and Comparison of Fast Fourier and Wavelet Transform Techniques on Raw sEMG Data From Textile-Based Electrodes. , 2023, , .		0
1600	Digital. , 2023, , 71-86.		0
1601	Advances in wearable respiration sensors. Materials Today, 2024, 72, 140-162.	14.2	1
1602	Flourishing electronic textiles towards pervasive, personalized and intelligent healthcare. , 0, 4, .		0
1603	A Review on Magnetic Smart Skin as Humanâ€Machine Interfaces. Advanced Electronic Materials, 0, , .	5.1	0
1604	Application and structure of carbon nanotube and graphene-based flexible electrode materials and assembly modes of flexible lithium-ion batteries toward different functions. Frontiers in Energy, 0, , .	2.3	0
1605	Wearable Biosensors on Sutures and Threads. , 2024, , 267-297.		0
1606	Design and integration of textile-based temperature sensors for smart textile applications. Smart Materials and Structures, 2024, 33, 025012.	3.5	0

#	ARTICLE	IF	CITATIONS
1607	Recent Progress to Address the Challenges of Conductive Inks for E-Textiles. , 0, , .		0
1608	Scalable and Multifunctional Polyurethane/MXene/Carbon Nanotube-Based Fabric Sensor toward Baby Healthcare. ACS Applied Materials & Interfaces, 2024, 16, 5196-5207.	8.0	0
1609	Advanced technologies for powering wearable devices. , 2024, , 485-510.		0
1610	Empowering Textile and Fashion Designers with E-Textiles for Creative Expression. , 0, , .		0
1611	Novel Weft-Knitted Strain Sensors for Motion Capture. Micromachines, 2024, 15, 222.	2.9	0
1612	Research Progress of Carbon-carbon Bond Linked Two-dimensional Covalent-Organic Frameworks. Acta Chimica Sinica, 2024, 82, 75.	1.4	0
1613	Semiconductor multimaterial optical fibers for biomedical applications. , 2024, , 231-258.		0
1614	A Proof-of-Concept Study on Smart Gloves for Real-Time Chest Compression Performance Monitoring. IEEE Access, 2024, 12, 22331-22344.	4.2	0
1615	Wireless power transfer using electronic textiles: A comparative review. Journal of Engineering Research, 2024, , .	0.7	0
1616	Porous Conductive Textiles for Wearable Electronics. Chemical Reviews, 2024, 124, 1535-1648.	47.7	0
1617	On the Study of Contemporary Wideband On-body Antenna-Based Sensor Designs for Bio-medical Applications. Energy Systems in Electrical Engineering, 2024, , 13-31.	0.7	0
1618	Experimental Analyses and Predictive Modelling of Ultrasonic Welding Parameters for Enhancing Smart Textile Fabrication. Sensors, 2024, 24, 1488.	3.8	0
1619	Wearable textile antennas: investigation on material variants, fabrication methods, design and application. Fashion and Textiles, 2024, 11, .	2.4	0
1620	Designing an IoT based Hand Bag for the Protection of Women. , 2023, , .		0
1621	E-textile를 이용한 sEMG 측정 시스템의 개발 및 성능 분석. Journal of the Korean Society of Clothing and Textiles, 2024, 48, 94-107.		0
1622	E-Tattoos: Toward Functional but Imperceptible Interfacing with Human Skin. Chemical Reviews, 2024, 124, 3220-3283.	47.7	0
1623	Fluid fibers in true 3D ferroelectric liquids. Proceedings of the National Academy of Sciences of the United States of America, 2024, 121, .	7.1	0
1624	Textile Based Lead-Free Halide Perovskite CH ₃ NH ₃ SnI ₃ Ammonia Gas Sensor Working at Room Temperature. ACS Applied Electronic Materials, 2024, 6, 2677-2682.	4.3	0

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