CITATION REPORT List of articles citing

Fiber-based wearable electronics: a review of materials, fabrication, devices, and applications

DOI: 10.1002/adma.201400633 Advanced Materials, 2014, 26, 5310-36.

Source: https://exaly.com/paper-pdf/59473238/citation-report.pdf

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
1543	Nanowire electrodes for electrochemical energy storage devices. 2014 , 114, 11828-62		552
1542	Three-dimensionally deformable, highly stretchable, permeable, durable and washable fabric circuit boards. 2014 , 470, 20140472		46
1541	Ni(OH)2 nanosheets grown on a 3D graphene framework as an excellent cathode for flexible supercapacitors. 2014 , 4, 47609-47614		22
1540	A post-CMOS compatible smart yarn technology based on SOI wafers. 2015 , 233, 397-404		8
1539	Millimeter Thin and Rubber-Like Solid-State Lighting Modules Fabricated Using Roll-to-Roll Fluidic Self-Assembly and Lamination. <i>Advanced Materials</i> , 2015 , 27, 3661-8	24	24
1538	Paper-Based Active Tactile Sensor Array. Advanced Materials, 2015, 27, 7130-6	24	113
1537	Flexible Sensory Platform Based on Oxide-based Neuromorphic Transistors. 2015 , 5, 18082		60
1536	Direct patterning of organic conductors on knitted textiles for long-term electrocardiography. 2015 , 5, 15003		112
1535	Flexible supercapacitor based on MnO2coated laser carbonized electrodes. 2015 , 660, 012044		4
1534	Design Considerations for Unconventional Electrochemical Energy Storage Architectures. 2015 , 5, 1402	2115	224
1533	An Aligned and Laminated Nanostructured Carbon Hybrid Cathode for High-Performance LithiumBulfur Batteries. 2015 , 127, 10685-10690		32
1532	Flexible Transparent Films Based on Nanocomposite Networks of Polyaniline and Carbon Nanotubes for High-Performance Gas Sensing. 2015 , 11, 5409-15		186
1531	Fabricating Continuous Supercapacitor Fibers with High Performances by Integrating All Building Materials and Steps into One Process. <i>Advanced Materials</i> , 2015 , 27, 7854-60	24	152
1530	High Luminance Fiber-Based Polymer Light-Emitting Devices by a Dip-Coating Method. 2015 , 1, 150010	3	71
1529	Cellular Polypropylene Piezoelectret for Human Body Energy Harvesting and Health Monitoring. 2015 , 25, 4788-4794		111
1528	A Large-Scale Flexible Plasmonic Nanorod Array with Multifunction of Strong Photoluminescence Emission and Radiation Enhancement. 2015 , 3, 1355-1361		6
1527	An Aligned and Laminated Nanostructured Carbon Hybrid Cathode for High-Performance Lithium-Sulfur Batteries. 2015 , 54, 10539-44		83

(2015-2015)

1526	properties. 2015 , 3, 11093-11097	42
1525	Fiber-Based Wearable Electronic Circuits and Systems. 2015 , 1-30	
1524	Reduced graphene oxide and polypyrrole/reduced graphene oxide composite coated stretchable fabric electrodes for supercapacitor application. 2015 , 172, 12-19	85
1523	Integrated carboxylic carbon nanotube pathways with membranes for voltage-activated humidity detection and microclimate regulation. 2015 , 11, 4461-8	12
1522	. 2015,	О
1521	Gum Sensor: A Stretchable, Wearable, and Foldable Sensor Based on Carbon Nanotube/Chewing Gum Membrane. 2015 , 7, 26195-205	66
1520	Performance of hybrid nanostructured conductive cotton threads as LPG sensor at ambient temperature: preparation and analysis. 2015 , 5, 99253-99269	22
1519	An evaporation-induced tri-consistent assembly route towards nitrogen-doped carbon microfibers with ordered mesopores for high performance supercapacitors. 2015 , 17, 4724-9	14
1518	Nanopatterned textile-based wearable triboelectric nanogenerator. 2015 , 9, 3501-9	495
1517	Phosphorus-Doped Graphitic Carbon Nitrides Grown In Situ on Carbon-Fiber Paper: Flexible and Reversible Oxygen Electrodes. 2015 , 127, 4729-4733	87
1516	Hybridized electromagnetic-triboelectric nanogenerator for scavenging biomechanical energy for sustainably powering wearable electronics. 2015 , 9, 3521-9	190
1515	Efficient fiber shaped zinc bromide batteries and dye sensitized solar cells for flexible power sources. 2015 , 3, 2157-2165	47
1514	Conductive fiber-based ultrasensitive textile pressure sensor for wearable electronics. <i>Advanced Materials</i> , 2015 , 27, 2433-9	746
1513	A redox-active gel electrolyte for fiber-shaped supercapacitor with high area specific capacitance. 2015 , 3, 6286-6290	41
1512	Organic transistor memory with a charge storage molecular double-floating-gate monolayer. 2015 , 7, 9767-75	35
1511	All-carbon solid-state yarn supercapacitors from activated carbon and carbon fibers for smart textiles. 2015 , 2, 598-605	98
1510	Multifunctional responsive fibers produced by dual liquid crystal core electrospinning. 2015 , 3, 8979-8985	25
1509	A conductive ternary network of a highly stretchable AgNWs/AgNPs conductor based on a polydopamine-modified polyurethane sponge. 2015 , 5, 62905-62912	29

1508	Self-Powered Human-Interactive Transparent Nanopaper Systems. 2015 , 9, 7399-406	85
1507	Scaling and Graphical Transport-Map Analysis of Ambipolar Schottky-Barrier Thin-Film Transistors Based on a Parallel Array of Si Nanowires. 2015 , 15, 4578-84	26
1506	Efficient fiber-shaped perovskite photovoltaics using silver nanowires as top electrode. 2015 , 3, 19310-19313	59
1505	Superstructured Assembly of Nanocarbons: Fullerenes, Nanotubes, and Graphene. 2015 , 115, 7046-117	381
1504	Capacitive soft strain sensors via multicore-shell fiber printing. <i>Advanced Materials</i> , 2015 , 27, 2440-6 24	300
1503	Respiration sensor made from indium tin oxide-coated conductive fabrics. 2015 , 66, 629-634	2
1502	Rotating-disk-based hybridized electromagnetic-triboelectric nanogenerator for scavenging biomechanical energy as a mobile power source. 2015 , 13, 771-780	125
1501	Polypyrrole/silver coaxial nanowire aero-sponges for temperature-independent stress sensing and stress-triggered Joule heating. 2015 , 9, 4244-51	127
1500	From industrially weavable and knittable highly conductive yarns to large wearable energy storage textiles. 2015 , 9, 4766-75	359
1499	High-performance flexible dye-sensitized solar cells by using hierarchical anatase TiO2 nanowire arrays. 2015 , 5, 88052-88058	19
1498	Novel Carbon Nanotube/Cellulose Composite Fibers As Multifunctional Materials. 2015 , 7, 22404-12	84
1497	Crack-Insensitive Wearable Electronics Enabled Through High-Strength Kevlar Fabrics. 2015 , 5, 1230-1236	8
1496	Mechanisms for Fiber-based Nanogenerators. 2015 , 487-511	
1495	Advances and prospects of fiber supercapacitors. 2015 , 3, 20863-20879	92
1494	Designing one-dimensional supercapacitors in a strip shape for high performance energy storage fabrics. 2015 , 3, 19304-19309	18
1493	Stretching and Twisting Sensing With Liquid-Metal Strain Gauges Printed on Silicone Elastomers. 2015 , 15, 6077-6078	37
1492	Cooperative effect of hierarchical carbon nanotube arrays as facilitated transport channels for high-performance wire-based supercapacitors. 2015 , 95, 746-755	25
1491	Performance of hybrid nanostructured conductive cotton materials as wearable devices: an overview of materials, fabrication, properties and applications. 2015 , 5, 107716-107770	60

(2016-2015)

1490	A wearable and highly sensitive CO sensor with a macroscopic polyaniline nanofiber membrane. 2015 , 3, 24333-24337	27
1489	Phosphorus-doped graphitic carbon nitrides grown in situ on carbon-fiber paper: flexible and reversible oxygen electrodes. 2015 , 54, 4646-50	654
1488	One-step growth of CoNi2S4 nanoribbons on carbon fibers as platinum-free counter electrodes for fiber-shaped dye-sensitized solar cells with high performance: Polymorph-dependent conversion efficiency. 2015 , 11, 697-703	94
1487	Emergence of fiber supercapacitors. 2015 , 44, 647-62	433
1486	Recent Advances in Wearable Sensors for Health Monitoring. 2015 , 15, 3119-3126	193
1485	Tailored graphene systems for unconventional applications in energy conversion and storage devices. 2015 , 8, 31-54	211
1484	Energy harvesting and storage textiles. 2016 , 357-396	6
1483	A Fabric-Based Approach for Wearable Haptics. 2016 , 5, 44	17
1482	Flexible Piezoelectric Energy Harvesting from Mouse Click Motions. 2016 , 16,	31
1481	Pressure Mapping Mat for Tele-Home Care Applications. 2016 , 16,	25
1480	Self-Powered Piezoionic Strain Sensor toward the Monitoring of Human Activities. 2016 , 12, 5074-5080	68
1479	Cutaneous Recording and Stimulation of Muscles Using Organic Electronic Textiles. 2016 , 5, 2001-6	17
1478	Flexible Nanogenerators for Energy Harvesting and Self-Powered Electronics. <i>Advanced Materials</i> , 2016 , 28, 4283-305	1065
1477	User-Interactive and Wireless-Communicating RF Textiles. 2016 , 1, 1600032	6
1476	A Fully Verified Theoretical Analysis of Contact-Mode Triboelectric Nanogenerators as a Wearable Power Source. 2016 , 6, 1600505	89
1475	Cubic Polyhedral Oligomeric Silsesquioxane Based Functional Materials: Synthesis, Assembly, and Applications. 2016 , 11, 1322-37	117
1474	Stretchable, Skin-Mountable, and Wearable Strain Sensors and Their Potential Applications: A Review. 2016 , 26, 1678-1698	1692
1473	Highly Integrated Supercapacitor-Sensor Systems via Material and Geometry Design. 2016 , 12, 3393-9	71

1472	Highly Flexible Organic Nanofiber Phototransistors Fabricated on a Textile Composite for Wearable Photosensors. 2016 , 26, 1445-1453	85
1471	Extraordinarily Sensitive and Low-Voltage Operational Cloth-Based Electronic Skin for Wearable Sensing and Multifunctional Integration Uses: A Tactile-Induced Insulating-to-Conducting Transition. 2016 , 26, 1286-1295	109
1470	Metal I hsulatorBemiconductor Coaxial Microfibers Based on Self-Organization of Organic Semiconductor:Polymer Blend for Weavable, Fibriform Organic Field-Effect Transistors. 2016 , 26, 2706-2714	4 ⁰
1469	Multiscale Wrinkled Microstructures for Piezoresistive Fibers. 2016 , 26, 5078-5085	129
1468	Textile Technologies and Tissue Engineering: A Path Toward Organ Weaving. 2016 , 5, 751-66	125
1467	Wearable Keyboard Using Conducting Polymer Electrodes on Textiles. <i>Advanced Materials</i> , 2016 , 28, 4485-8	130
1466	Recent Progress in Materials and Devices toward Printable and Flexible Sensors. <i>Advanced Materials</i> , 2016 , 28, 4415-40	487
1465	Fabrication of a High-Performance Flexible SilverZinc Wire Battery. 2016 , 2, 1500296	52
1464	Flexible Wire-Shaped Supercapacitors in Parallel Double Helix Configuration with Stable Electrochemical Properties under Static/Dynamic Bending. 2016 , 12, 1024-33	75
1463	Buckled Au@PVP Nanofiber Networks for Highly Transparent and Stretchable Conductors. 2016 , 2, 1500302	2 36
1462	Novel Pliable Electrodes for Flexible Electrochemical Energy Storage Devices: Recent Progress and Challenges. 2016 , 6, 1600490	95
1461	Watchband-Like Supercapacitors with Body Temperature Inducible Shape Memory Ability. 2016 , 6, 1600763	73
1460	Smart Electronic Textiles. 2016 , 55, 6140-69	371
1459	Flexible Transparent Reduced Graphene Oxide Sensor Coupled with Organic Dye Molecules for Rapid Dual-Mode Ammonia Gas Detection. 2016 , 26, 4329-4338	84
1458	Double-Twisted Conductive Smart Threads Comprising a Homogeneously and a Gradient-Coated Thread for Multidimensional Flexible Pressure-Sensing Devices. 2016 , 26, 4078-4084	57
1457	Stretchable-Fiber-Confined Wetting Conductive Liquids as Wearable Human Health Monitors. 2016 , 26, 4511-4517	67
1456	Downsized Sheath-Core Conducting Fibers for Weavable Superelastic Wires, Biosensors, Supercapacitors, and Strain Sensors. <i>Advanced Materials</i> , 2016 , 28, 4998-5007	107
1455	Freestanding, Hydrophilic Nitrogen-Doped Carbon Foams for Highly Compressible All Solid-State Supercapacitors. <i>Advanced Materials</i> , 2016 , 28, 5997-6002	233

(2016-2016)

1454	Fluorine. 2016 , 2, 1500474	21
1453	A Review of the Fundamental Principles and Applications of Solution Blow Spinning. 2016 , 8, 34951-34963	171
1452	Atomic layer deposition on polymer fibers and fabrics for multifunctional and electronic textiles. 2016 , 34, 010801	48
1451	Creation of additional electrical pathways for the robust stretchable electrode by using UV irradiated CNT-elastomer composite. 2016 , 109, 171901	2
1450	Monitoring elbow isometric contraction by novel wearable fabric sensing device. 2016 , 25, 125022	12
1449	PtAu alloy nanoflowers on 3D porous ionic liquid functionalized graphene-wrapped activated carbon fiber as a flexible microelectrode for near-cell detection of cancer. 2016 , 8, e337-e337	36
1448	Liquid metal actuation by electrical control of interfacial tension. 2016 , 3, 031103	90
1447	Deformable printed circuit boards that enable metamorphic electronics. 2016 , 8, e336-e336	18
1446	Sensing textile seam-line for wearable multimodal physiological monitoring. 2016 , 2016, 311-314	9
1445	Flexible bottom-gate graphene transistors on Parylene C substrate and the effect of current annealing. 2016 , 109, 152105	3
1444	Polarized FT-IR Study of Uniaxially Aligned Electrospun Poly(DL-Lactic Acid) Fiber Films. 2016 , 29, 353-356	5
1443	Thin conductive structures on coated textiles. 2016 ,	1
1442	Textile-based wearable sensors using metal-nanowire embedded conductive fibers. 2016,	2
1441	Highly Stretchable Non-volatile Nylon Thread Memory. 2016 , 6, 24406	16
1440	Design of a multi-sensor inertial data acquisition system for patient health monitoring with real time operating system. 2016 ,	
1439	Thermal conductivity of liquid argon in nanochannels from molecular dynamics simulations. 2016 , 144, 194507	20
1438	Soft, flexible 3D printed fibers for capacitive tactile sensing. 2016 ,	
1437	Flexible-wire shaped all-solid-state supercapacitors based on facile electropolymerization of polythiophene with ultra-high energy density. 2016 , 4, 7406-7415	65

1436	Fiber-based multifunctional nickel phosphide electrodes for flexible energy conversion and storage. 2016 , 4, 9691-9699	116
1435	Stretchable electronics for wearable and high-current applications. 2016,	1
1434	Smart Textile Supercapacitors Coated with Conducting Polymers for Energy Storage Applications. 2016 , 437-477	3
1433	Recent Progress on Ferroelectric Polymer-Based Nanocomposites for High Energy Density Capacitors: Synthesis, Dielectric Properties, and Future Aspects. 2016 , 116, 4260-317	909
1432	Wearable Self-Charging Power Textile Based on Flexible Yarn Supercapacitors and Fabric Nanogenerators. <i>Advanced Materials</i> , 2016 , 28, 98-105	608
1431	Synthesis and gas permeability of highly elastic poly(dimethylsiloxane)/graphene oxide composite elastomers using telechelic polymers. 2016 , 93, 53-60	29
1430	Wearable Chemical Sensors: Present Challenges and Future Prospects. 2016 , 1, 464-482	469
1429	Intrinsically Conductive Polymer Fibers from Thermoplastic trans-1,4-Polyisoprene. 2016 , 32, 4904-8	8
1428	Progress in development of flexible metallir batteries. 2016 , 09, 1630001	33
1427	Reliable Actual Fabric-Based Organic Light-Emitting Diodes: Toward a Wearable Display. 2016 , 2, 1600220	67
1426	Coiled Fiber-Shaped Stretchable Thermal Sensors for Wearable Electronics. 2016 , 1, 1600170	42
1425	Modulation of Mechanical Interactions by Local Piezoelectric Effects. 2016 , 26, 7662-7667	10
1424	Fabric Active Transducer Stimulated by Water Motion for Self-Powered Wearable Device. 2016 , 8, 24579-84	18
1423	Variable temperature performance of a fully screen printed transistor switch. 2016 , 126, 59-66	1
1422	Energy Harvesters for Wearable and Stretchable Electronics: From Flexibility to Stretchability. Advanced Materials, 2016 , 28, 9881-9919	309
1421	Environment-friendly carbon nanotube based flexible electronics for noninvasive and wearable healthcare. 2016 , 4, 10061-10068	90
1420	Machine-Washable Textile Triboelectric Nanogenerators for Effective Human Respiratory Monitoring through Loom Weaving of Metallic Yarns. <i>Advanced Materials</i> , 2016 , 28, 10267-10274	246
1419	Flexible Proton-Gated Oxide Synaptic Transistors on Si Membrane. 2016 , 8, 21770-5	41

(2016-2016)

1418	Piezoresistive Sensor with High Elasticity Based on 3D Hybrid Network of Sponge@CNTs@Ag NPs. 2016 , 8, 22374-81	138
1417	Stretchable lithium-air batteries for wearable electronics. 2016 , 4, 13419-13424	69
1416	Flexible and multifunctional electronics fabricated by a solvent-free and user-friendly method. 2016 , 6, 77267-77274	24
1415	3D Stretchable, Compressible, and Highly Conductive Metal-Coated Polydimethylsiloxane Sponges. 2016 , 1, 1600117	55
1414	Hybrid Optical Fibers [An Innovative Platform for In-Fiber Photonic Devices. 2016 , 4, 13-36	130
1413	Thin-film organic semiconductor devices: from flexibility to ultraflexibility. 2016 , 59, 589-608	27
1412	Radiative loss-determined circular dichroism of plasmonic nanospirals with bendable stability of chiroptical activity. 2016 , 6, 84348-84353	11
1411	High-Performance OrganicIhorganic Hybrid Piezo-Nanogenerator via Interface Enhanced Polarization Effects for Self-Powered Electronic Systems. 2016 , 3, 1600492	26
1410	A high performance fiber-shaped PEDOT@MnO2//C@Fe3O4 asymmetric supercapacitor for wearable electronics. 2016 , 4, 14877-14883	96
1409	Polymer-Enhanced Highly Stretchable Conductive Fiber Strain Sensor Used for Electronic Data Gloves. 2016 , 1, 1600136	100
1408	Wearable Textile-Based In-Plane Microsupercapacitors. 2016 , 6, 1601254	162
1407	Entirely Flexible On-Site Conditioned Magnetic Sensorics. 2016 , 2, 1600188	26
1406	Robust and stretchable indium gallium zinc oxide-based electronic textiles formed by cilia-assisted transfer printing. 2016 , 7, 11477	54
1405	Silver Nanowire Embedded Colorless Polyimide Heater for Wearable Chemical Sensors: Improved Reversible Reaction Kinetics of Optically Reduced Graphene Oxide. 2016 , 12, 5826-5835	52
1404	High sensitivity knitted fabric strain sensors. 2016 , 25, 105008	30
1403	Wearable fiber-shaped energy conversion and storage devices based on aligned carbon nanotubes. 2016 , 11, 644-660	98
1402	Textile-Based Electrochemical Energy Storage Devices. 2016 , 6, 1600783	216
1401	High-performance stretchable yarn supercapacitor based on PPy@CNTs@urethane elastic fiber core spun yarn. 2016 , 27, 230-237	245

1400	Water-Resistant Perovskite Polygonal Microdisks Laser in Flexible Photonics Devices. 2016 , 4, 1718-1725	24
1399	Flexible and Stretchable Oxide Electronics. 2016 , 2, 1600105	39
1398	Fabrication of a flexible and conductive lyocell fabric decorated with graphene nanosheets as a stable electrode material. 2016 , 152, 19-25	31
1397	Flexible Textile Strain Wireless Sensor Functionalized with Hybrid Carbon Nanomaterials Supported ZnO Nanowires with Controlled Aspect Ratio. 2016 , 26, 6206-6214	100
1396	Carbon-Nanotube Fibers for Wearable Devices and Smart Textiles. <i>Advanced Materials</i> , 2016 , 28, 10529- <u>1</u> Q538	3 244
1395	First Fiber-Shaped Non-Volatile Memory Device Based on Hybrid OrganicIhorganic Perovskite. 2016 , 2, 1600160	42
1394	Wearable Power-Textiles by Integrating Fabric Triboelectric Nanogenerators and Fiber-Shaped Dye-Sensitized Solar Cells. 2016 , 6, 1601048	221
1393	A facile low temperature route to deposit a TiO2 scattering layer for efficient dye-sensitized solar cells. 2016 , 6, 70895-70901	13
1392	Optical Dedoping Mechanism for P3HT:F4TCNQ Mixtures. 2016 , 7, 4297-4303	29
1391	Favorable Molecular Orientation Enhancement in Semiconducting Polymer Assisted by Conjugated Organic Small Molecules. 2016 , 26, 8527-8536	15
1390	Wire-type MnO 2 /Multilayer graphene/Ni electrode for high-performance supercapacitors. 2016 , 335, 113-120	35
1389	Electrochromic/supercapacitive dual functional fibres. 2016 , 6, 110164-110170	23
1388	A high-performance flexible and weavable asymmetric fiber-shaped solid-state supercapacitor enhanced by surface modifications of carbon fibers with carbon nanotubes. 2016 , 4, 18164-18173	42
1387	Micro-cable structured textile for simultaneously harvesting solar and mechanical energy. 2016 , 1,	704
1386	Sensors: Theory and Innovation. 2016 , 123-142	
1385	Indoor light recycling: a new home for organic photovoltaics. 2016 , 4, 10367-10370	130
1384	Silver-Nanoparticle-Colored Cotton Fabrics with Tunable Colors and Durable Antibacterial and Self-Healing Superhydrophobic Properties. 2016 , 26, 569-576	314
1383	Design of Strain-Limiting Substrate Materials for Stretchable and Flexible Electronics. 2016 , 26, 5345-5351	75

1382	Advances in Wearable Fiber-Shaped Lithium-Ion Batteries. Advanced Materials, 2016, 28, 4524-31	24	173	
1381	Radiation-Tolerant Flexible Large-Area Electronics Based on Oxide Semiconductors. 2016 , 2, 1500489		29	
1380	Light-Controlled Simultaneous Resistive and Ferroelectricity Switching Effects of BiFeO3 Film for a Flexible Multistate High-Storage Memory Device. 2016 , 3, 896-901		32	
1379	A Cable-Shaped Lithium Sulfur Battery. <i>Advanced Materials</i> , 2016 , 28, 491-6	24	148	
1378	A One-Structure-Based Hybridized Nanogenerator for Scavenging Mechanical and Thermal Energies by Triboelectric-Piezoelectric-Pyroelectric Effects. <i>Advanced Materials</i> , 2016 , 28, 2881-7	24	191	
1377	Balloon-Embedded Sensors Withstanding Extreme Multiaxial Stretching and Global Bending Mechanical Stress: Towards Environmental and Security Monitoring. 2016 , 1, 1600061		26	
1376	Encapsulated, High-Performance, Stretchable Array of Stacked Planar Micro-Supercapacitors as Waterproof Wearable Energy Storage Devices. 2016 , 8, 16016-25		87	
1375	Protein-Based Bioelectronics. 2016 , 2, 1211-1223		70	
1374	Wearable piezoelectric device assembled by one-step continuous electrospinning. 2016 , 4, 6988-6995		39	
1373	Highly Elastic Fibers Made from Hydrogen-Bonded Polymer Complex. 2016 , 5, 814-818		37	
1372	Wearable Electricity Generators Fabricated Utilizing Transparent Electronic Textiles Based on Polyester/Ag Nanowires/Graphene Core-Shell Nanocomposites. 2016 , 10, 6449-57		159	
1371	Wearable Potentiometric Sensors Based on Commercial Carbon Fibres for Monitoring Sodium in Sweat. 2016 , 28, 1267-1275		63	
1370	A light@mission textile device: conformal spray-sintering of a woven fabric electrode. 2016 , 1, 025004		36	
1369	High-Performance Flexible Multilayer MoS2 Transistors on Solution-Based Polyimide Substrates. 2016 , 26, 2426-2434		63	
1368	A Highly Stretchable Supercapacitor Using Laser-Induced Graphene Electrodes onto Elastomeric Substrate. 2016 , 6, 1600050		144	
1367	Smarte elektronische Textilien. 2016 , 128, 6248-6277		10	
1366	Fiber-shaped perovskite solar cells with 5.3% efficiency. 2016 , 4, 3901-3906		48	
1365	The Promise of Information and Communication Technology in Healthcare: Extracting Value From the Chaos. 2016 , 351, 59-68		61	

1364	Template-free synthesis of hierarchical TiO 2 hollow microspheres as scattering layer for dye-sensitized solar cells. 2016 , 369, 170-177	31
1363	Fluoroalkylsilane-Modified Textile-Based Personal Energy Management Device for Multifunctional Wearable Applications. 2016 , 8, 4676-83	95
1362	Reversibly Stretchable, Optically Transparent Radio-Frequency Antennas Based on Wavy Ag Nanowire Networks. 2016 , 8, 2582-90	52
1361	1-Dimensional fiber-based field-effect transistors made by low-temperature photochemically activated solgel metal-oxide materials for electronic textiles. 2016 , 6, 18596-18600	11
1360	A single-electrode wearable triboelectric nanogenerator based on conductive & stretchable fabric. 2016 ,	10
1359	A singular flexible cathode for room temperature sodium/sulfur battery. 2016 , 307, 31-37	85
1358	Multifunctional Material Systems: A state-of-the-art review. 2016 , 151, 3-35	187
1357	Bendable graphene/conducting polymer hybrid films for freestanding electrodes with high volumetric capacitances. 2016 , 6, 2951-2957	17
1356	Flexible electronics under strain: a review of mechanical characterization and durability enhancement strategies. 2016 , 51, 2771-2805	219
1355	Self-supported electrocatalysts for advanced energy conversion processes. 2016 , 19, 265-273	212
1354	Fast, scalable, and eco-friendly fabrication of an energy storage paper electrode. 2016 , 18, 1117-1124	54
1353	Piezofilm yarn sensor-integrated knitted fabric for healthcare applications. 2017 , 47, 505-521	19
1352	A Review of Flexible OLEDs Toward Highly Durable Unusual Displays. 2017 , 64, 1922-1931	129
1351	Controlled Sub-Micrometer Hierarchical Textures Engineered in Polymeric Fibers and Microchannels via Thermal Drawing. 2017 , 27, 1605935	37
1350	E-textile gas sensors composed of molybdenum disulfide and reduced graphene oxide for high response and reliability. 2017 , 248, 829-835	47
1349	Eco-friendly fabrication of antibacterial cotton fibers by the cooperative self-assembly of hyperbranched poly(amidoamine)- and hyperbranched poly(amine-ester)-functionalized silver nanoparticles. 2017 , 24, 1493-1509	15
1348	Network structure and electromechanical properties of viscose-graphene conductive yarn assembles. 2017 , 114, 731-739	15
1347	Largely Enhanced Stretching Sensitivity of Polyurethane/Carbon Nanotube Nanocomposites via Incorporation of Cellulose Nanofiber. 2017 , 121, 2108-2117	52

1346	ReviewMicro and Nano-Engineering Enabled New Generation of Thermoelectric Generator Devices and Applications. 2017 , 6, N3036-N3044	46
1345	Self-powered wireless smart patch for healthcare monitoring. 2017 , 32, 479-487	73
1344	Investigation of the adhesion properties of direct 3D printing of polymers and nanocomposites on textiles: Effect of FDM printing process parameters. 2017 , 403, 551-563	185
1343	Ultrathin and large-sized vanadium oxide nanosheets mildly prepared at room temperature for high performance fiber-based supercapacitors. 2017 , 5, 2483-2487	51
1342	Paper: A promising material for human-friendly functional wearable electronics. 2017 , 112, 1-22	100
1341	A highly torsionable fiber-shaped supercapacitor. 2017 , 5, 4397-4403	20
1340	Solution-processed AuAg coreShell nanoparticle-decorated yarns for human motion monitoring. 2017 , 7, 10539-10544	8
1339	Titanium carbide sheet based high performance wire type solid state supercapacitors. 2017 , 5, 5726-5736	104
1338	Mechanically Durable and Flexible Thermoelectric Films from PEDOT:PSS/PVA/Bi0.5Sb1.5Te3 Nanocomposites. 2017 , 3, 1600554	57
1337	Powering portable electronics using vocal fold vibrations. 2017,	2
1336	Ingestible Sensors. 2017 , 2, 468-483	119
1335	Flexible Heteroepitaxy of CoFeO/Muscovite Bimorph with Large Magnetostriction. 2017 , 9, 7297-7304	82
1334	A flexible two dimensional force sensor using PDMS nanocomposite. 2017 , 174, 64-69	27
1333	Recent advances in wearable tactile sensors: Materials, sensing mechanisms, and device performance. 2017 , 115, 1-37	4 ⁰ 5
1332	Inkjet printing wearable electronic devices. 2017 , 5, 2971-2993	291
1331	Nylon-Graphene Composite Nonwovens as Monolithic Conductive or Capacitive Fabrics. 2017 , 9, 8308-8316	31
1330	Fluid-Induced Alignment of Carbon Nanofibers in Polymer Fibers. 2017 , 302, 1600544	5
1329	Electromechanical properties of a yarn strain sensor with graphene-sheath/polyurethane-core. 2017 , 118, 686-698	87

1328	From natural cotton thread to sewable energy dense supercapacitors. 2017 , 9, 6406-6416	13
1327	Healable Cotton-Graphene Nanocomposite Conductor for Wearable Electronics. 2017 , 9, 13825-13830	62
1326	3D printing of highly elastic strain sensors using polyurethane/multiwall carbon nanotube composites. 2017 ,	5
1325	Structural and Functional Fibers. 2017 , 47, 331-359	46
1324	Solvent-free fabrication of biodegradable hot-film flow sensor for noninvasive respiratory monitoring. 2017 , 50, 215401	39
1323	Semiconducting Nanowire-Based Optoelectronic Fibers. <i>Advanced Materials</i> , 2017 , 29, 1700681 24	95
1322	Nanoionics-Enabled Memristive Devices: Strategies and Materials for Neuromorphic Applications. 2017 , 3, 1600510	123
1321	Magnetic/conductive composite fibre: A multifunctional strain sensor with magnetically driven property. 2017 , 100, 97-105	22
1320	Ultrathin Cs3Bi2I9 Nanosheets as an Electronic Memory Material for Flexible Memristors. 2017 , 4, 1700131	57
1319	Poly(Ionic Liquid)-Derived Carbon with Site-Specific N-Doping and Biphasic Heterojunction for Enhanced CO Capture and Sensing. 2017 , 56, 7557-7563	100
1318	Multifunctional epoxy resin/polyacrylonitrile-lithium trifluoromethanesulfonate composites films with very high transparency, high dielectric permittivity, breakdown strength and mechanical properties. 2017 , 134, 45218	5
1317		
<i>J</i> ,	Reduced graphene oxide/Mn 3 O 4 nanocrystals hybrid fiber for flexible all-solid-state supercapacitor with excellent volumetric energy density. 2017 , 242, 10-18	61
1316	Reduced graphene oxide/Mn 3 O 4 nanocrystals hybrid fiber for flexible all-solid-state supercapacitor with excellent volumetric energy density. 2017, 242, 10-18 Recent progress of fiber-shaped asymmetric supercapacitors. 2017, 5, 1-14	61 51
	supercapacitor with excellent volumetric energy density. 2017 , 242, 10-18	
1316	supercapacitor with excellent volumetric energy density. 2017 , 242, 10-18 Recent progress of fiber-shaped asymmetric supercapacitors. 2017 , 5, 1-14	51
1316 1315	Recent progress of fiber-shaped asymmetric supercapacitors. 2017 , 5, 1-14 Flexible fiber-shaped supercapacitors: Design, fabrication, and multi-functionalities. 2017 , 8, 85-109 A hybrid aerodynamic and electrostatic atomization system for enhanced uniformity of thin film.	51 78
1316 1315 1314	Recent progress of fiber-shaped asymmetric supercapacitors. 2017, 5, 1-14 Flexible fiber-shaped supercapacitors: Design, fabrication, and multi-functionalities. 2017, 8, 85-109 A hybrid aerodynamic and electrostatic atomization system for enhanced uniformity of thin film. 2017, 87, 93-101	51 78 3

(2017-2017)

1310	Thread-Like CMOS Logic Circuits Enabled by Reel-Processed Single-Walled Carbon Nanotube Transistors via Selective Doping. <i>Advanced Materials</i> , 2017 , 29, 1701822	30
1309	Poly(Ionic Liquid)-Derived Carbon with Site-Specific N-Doping and Biphasic Heterojunction for Enhanced CO2 Capture and Sensing. 2017 , 129, 7665-7671	16
1308	Wearable Flexible Sensors: A Review. 2017 , 17, 3949-3960	259
1307	Highly performing ionic liquid enriched hybrid RSDs. 2017 , 5, 6144-6155	13
1306	Flexible and wearable strain sensing fabrics. 2017 , 325, 396-403	131
1305	A Fully Biobased Encapsulant Constructed of Soy Protein and Cellulose Nanocrystals for Flexible Electromechanical Sensing. 2017 , 5, 7063-7070	44
1304	Functional flexible and wearable supercapacitors. 2017 , 50, 273001	23
1303	RuO2-coated vertical graphene hybrid electrodes for high-performance solid-state supercapacitors. 2017 , 5, 17293-17301	89
1302	A fiber asymmetric supercapacitor based on FeOOH/PPy on carbon fibers as an anode electrode with high volumetric energy density for wearable applications. 2017 , 9, 10794-10801	100
1301	Multi-material optoelectronic fiber devices. 2017,	1
1300	A Facile Methodology for the Development of a Printable and Flexible All-Solid-State Rechargeable Battery. 2017 , 9, 19870-19880	35
1299	Review of Flexible Temperature Sensing Networks for Wearable Physiological Monitoring. 2017 , 6, 1601371	124
1298	Graphene nanopetal wire supercapacitors with high energy density and thermal durability. 2017 , 38, 127-136	52
1297	Flexible and Lightweight Fuel Cell with High Specific Power Density. 2017 , 11, 5982-5991	56
1296	Magnetically actuated functional gradient nanocomposites for strong and ultra-durable biomimetic interfaces/surfaces. 2017 , 4, 869-877	24
1295	Carbon black functionalized stretchable conductive fabrics for wearable heating applications. 2017 , 7, 19174-19180	47
1294	Effects of amount of graphene oxide and the times of LightScribe on the performance of all-solid-state flexible graphene-based micro-supercapacitors. 2017 , 4, 036304	15
1293	Stretchable Capacitive Sensors of Torsion, Strain, and Touch Using Double Helix Liquid Metal Fibers. 2017 , 27, 1605630	171

1292	Directly embroidered microtubes for fluid transport in wearable applications. 2017 , 17, 1585-1593	11
1291	Advanced Materials for Health Monitoring with Skin-Based Wearable Devices. 2017, 6, 1700024	165
1290	NiCo2S4 nanosheets in situ grown on carbon fibers as an efficient counter electrode for fiber-shaped dye-sensitized solar cells. 2017 , 28, 10640-10644	5
1289	Determinants of electrical resistance change of in situ PPy-polymerized stretch plain woven fabric under uniaxial tensile strain. 2017 , 108, 1545-1551	8
1288	PVDF based flexible piezoelectric nanogenerators using conjugated polymer:PCBM blend systems. 2017 , 259, 112-120	10
1287	Robust wire-based supercapacitors based on hierarchical \(\text{HMoO}\) 3 nanosheet arrays with well-aligned laminated structure. 2017 , 320, 34-42	34
1286	Graphene Oxide Scroll Meshes Prepared by Molecular Combing for Transparent and Flexible Electrodes. 2017 , 2, 1600231	11
1285	Advanced Biowaste-Based Flexible Photocatalytic Fuel Cell as a Green Wearable Power Generator. 2017 , 2, 1600191	16
1284	Liquid metal sponges for mechanically durable, all-soft, electrical conductors. 2017 , 5, 1586-1590	103
1283	Design of Amorphous Manganese Oxide@Multiwalled Carbon Nanotube Fiber for Robust Solid-State Supercapacitor. 2017 , 11, 444-452	163
1282	One-Dimensional Nanomaterials for Soft Electronics. 2017 , 3, 1600314	218
1281	Facilitated embedding of silver nanowires into conformally-coated iCVD polymer films deposited on cloth for robust wearable electronics. 2017 , 9, 3399-3407	14
1280	Graphene oxide as high-performance dielectric materials for capacitive pressure sensors. 2017 , 114, 209-216	142
1279	LithiumBulfur Battery Cable Made from Ultralight, Flexible Graphene/Carbon Nanotube/Sulfur Composite Fibers. 2017 , 27, 1604815	147
1278	A solution-processed TiS2/organic hybrid superlattice film towards flexible thermoelectric devices. 2017 , 5, 564-570	104
1277	Water-borne foldable polymer solar cells: one-step transferring free-standing polymer films onto woven fabric electrodes. 2017 , 5, 782-788	21
1276	State-of-the-Art Overview on Polymer/POSS Nanocomposite. 2017 , 56, 1401-1420	34
1275	A simple method for fabricating highly electrically conductive cotton fabric without metals or nanoparticles, using PEDOT:PSS. 2017 , 702, 266-273	39

1274	Controlled multimodal hierarchically porous electrode self-assembly of electrochemically exfoliated graphene for fully solid-state flexible supercapacitor. 2017 , 19, 30381-30392	19
1273	Three-Dimensional Printed Thermal Regulation Textiles. 2017 , 11, 11513-11520	165
1272	Self-Organized Frameworks on Textiles (SOFT): Conductive Fabrics for Simultaneous Sensing, Capture, and Filtration of Gases. 2017 , 139, 16759-16767	155
1271	Organic flash memory on various flexible substrates for foldable and disposable electronics. 2017 , 8, 725	62
1270	Green Solid Electrolyte with Cofunctionalized Nanocellulose/Graphene Oxide Interpenetrating Network for Electrochemical Gas Sensors. 2017 , 1, 1700237	31
1269	General Metal-Ion Mediated Method for Functionalization of Graphene Fiber. 2017 , 9, 37022-37030	19
1268	A stretchable fiber nanogenerator for versatile mechanical energy harvesting and self-powered full-range personal healthcare monitoring. 2017 , 41, 511-518	95
1267	All inkjet-printed graphene-based conductive patterns for wearable e-textile applications. 2017 , 5, 11640-116	5 48 50
1266	Reviving Vibration Energy Harvesting and Self-Powered Sensing by a Triboelectric Nanogenerator. 2017 , 1, 480-521	487
1265	Nature-Inspired Structural Materials for Flexible Electronic Devices. 2017 , 117, 12893-12941	401
1264	Electrical Heating-Assisted Multiple Coating Method for Fabrication of High-Performance Perovskite Fiber Solar Cells by Thickness Control. 2017 , 4, 1700833	9
1263	Wet-spinning of ternary synergistic coaxial fibers for high performance yarn supercapacitors. 2017 , 5, 22489-22494	42
1262	Integration of Energy Harvesting and Electrochemical Storage Devices. 2017 , 2, 1700182	63
1261	Large-Area All-Textile Pressure Sensors for Monitoring Human Motion and Physiological Signals. Advanced Materials, 2017 , 29, 1703700 24	412
1260	Low-cost highly sensitive strain sensors for wearable electronics. 2017 , 5, 10571-10577	15
1259	Smart wearable heaters with high durability, flexibility, water-repellent and shape memory characteristics. 2017 , 152, 173-180	23
1258	Ultrathin Coaxial Fiber Supercapacitors Achieving High Energy and Power Densities. 2017 , 9, 39391-39398	31
1257	Wearable triboelectric nanogenerator using a plasma-etched PDMSLINT composite for a physical activity sensor. 2017 , 7, 48368-48373	41

1256	Recent Advances in Sensing Applications of Graphene Assemblies and Their Composites. 2017 , 27, 1702891	161
1255	Flexible transparent high-voltage diodes for energy management in wearable electronics. 2017 , 40, 289-299	30
1254	Design and fabrication of a flexible woven smart fabric based highly sensitive sensor for conductive liquid leakage detection. 2017 , 7, 41117-41126	1
1253	Highly stretchable organic thermoelectrics with an enhanced power factor due to extended localization length. 2017 , 50, 367-375	15
1252	Highly Concentrated, Ultrathin Nickel Hydroxide Nanosheet Ink for Wearable Energy Storage Devices. <i>Advanced Materials</i> , 2017 , 29, 1703455	46
1251	Electrospun nanofabric based all-fabric iontronic pressure sensor. 2017,	1
1250	Strain-responsive mercerized conductive cotton fabrics based on PEDOT:PSS/graphene. 2017 , 135, 213-222	80
1249	High-performance, flexible, and ultralong crystalline thermoelectric fibers. 2017 , 41, 35-42	84
1248	Electronic Textile by Dyeing Method for Multiresolution Physical Kineses Monitoring. 2017, 3, 1700253	54
1247	Cross-buckled structures for stretchable and compressible thin film silicon solar cells. 2017 , 7, 7575	6
1246	Effects of Additives on the Preparation of Ag Nanoparticles Using the Microwave-Induced Plasma in Liquid Process. 2017 , 2, 7873-7879	9
1245	Functional Circuitry on Commercial Fabric via Textile-Compatible Nanoscale Film Coating Process for Fibertronics. 2017 , 17, 6443-6452	47
1244	Highly stretchable electrospun conducting polymer nanofibers. 2017 , 111, 093701	16
1243	Effects of heat treatment on Na-ion conductivity and conduction pathways of fluorphosphate glass-ceramics. 2017 , 471, 280-285	3
1242	Wearable All-Fabric-Based Triboelectric Generator for Water Energy Harvesting. 2017, 7, 1701243	149
1241	Sulfur and nitrogen co-doped holey graphene aerogel for structurally resilient solid-state supercapacitors under high compressions. 2017 , 5, 17253-17266	55
1240	Omnidirectional porous fiber scrolls of polyaniline nanopillars array-N-doped carbon nanofibers for fiber-shaped supercapacitors. 2017 , 5, 196-204	20
1239	Highly conductive and environmentally stable gold/graphene yarns for flexible and wearable electronics. 2017 , 9, 11439-11445	29

1238	MICAtronics: A new platform for flexible X-tronics. 2017 , 3, 26-42	101
1237	Ionic transport in the amorphous phase of semicrystalline polyethylene oxide thin films. 2017 , 13, 5597-5603	6
1236	Highly Sensitive MoS Humidity Sensors Array for Noncontact Sensation. <i>Advanced Materials</i> , 2017 , 29, 1702076	223
1235	Renewable-Biomolecule-Based Electrochemical Energy-Storage Materials. 2017 , 7, 1700663	64
1234	Fabric sensory sleeves for soft robot state estimation. 2017,	9
1233	A Skin-Inspired Integrated Sensor for Synchronous Monitoring of Multiparameter Signals. 2017 , 27, 1702050	46
1232	Supercapacitive Iontronic Nanofabric Sensing. <i>Advanced Materials</i> , 2017 , 29, 1700253	113
1231	Highly Flexible and Efficient Fabric-Based Organic Light-Emitting Devices for Clothing-Shaped Wearable Displays. 2017 , 7, 6424	79
1230	Wearable nanosensor systems and their applications in healthcare. 2017,	1
1229	Fabrication and characterization of screen printed stretchable carbon interconnects. 2017,	3
1228	Investigations of carbon nanotubes and polyacrylonitrile composites for flexible textronics. 2017,	1
1227	Flexible and stretchable mechanoluminescent fiber and fabric. 2017 , 5, 8027-8032	20
		39
1226	3D Orthogonal Woven Triboelectric Nanogenerator for Effective Biomechanical Energy Harvesting and as Self-Powered Active Motion Sensors. <i>Advanced Materials</i> , 2017 , 29, 1702648	225
1226 1225	3D Orthogonal Woven Triboelectric Nanogenerator for Effective Biomechanical Energy Harvesting	
	3D Orthogonal Woven Triboelectric Nanogenerator for Effective Biomechanical Energy Harvesting and as Self-Powered Active Motion Sensors. <i>Advanced Materials</i> , 2017 , 29, 1702648	225
1225	3D Orthogonal Woven Triboelectric Nanogenerator for Effective Biomechanical Energy Harvesting and as Self-Powered Active Motion Sensors. <i>Advanced Materials</i> , 2017 , 29, 1702648 Bionic ion channel and single-ion conductor design for artificial skin sensors. 2017 , 5, 7126-7132 An overview of electrospun nanofibers and their application in energy storage, sensors and wearable/flexible electronics. 2017 , 5, 12657-12673	225
1225	3D Orthogonal Woven Triboelectric Nanogenerator for Effective Biomechanical Energy Harvesting and as Self-Powered Active Motion Sensors. <i>Advanced Materials</i> , 2017 , 29, 1702648 Bionic ion channel and single-ion conductor design for artificial skin sensors. 2017 , 5, 7126-7132 An overview of electrospun nanofibers and their application in energy storage, sensors and wearable/flexible electronics. 2017 , 5, 12657-12673	2252110339

1220	Properties Of Thin Metal Layers Deposited On Textile Composites By Using The Pvd Method For Textronic Applications. 2017 , 17, 229-237	14
1219	All-in-One Graphene Based Composite Fiber: Toward Wearable Supercapacitor. 2017 , 9, 39576-39583	57
1218	MXene: a potential candidate for yarn supercapacitors. 2017 , 9, 18604-18608	81
1217	A Stretchable and Transparent Nanocomposite Nanogenerator for Self-Powered Physiological Monitoring. 2017 , 9, 42200-42209	92
1216	Mapping Nanostructural Variations in Silk by Secondary Electron Hyperspectral Imaging. <i>Advanced Materials</i> , 2017 , 29, 1703510	16
1215	Continuously Producible Ultrasensitive Wearable Strain Sensor Assembled with Three-Dimensional Interpenetrating Ag Nanowires/Polyolefin Elastomer Nanofibrous Composite Yarn. 2017 , 9, 42058-42066	73
1214	Omnidirectional Deformable Energy Textile for Human Joint Movement Compatible Energy Storage. 2017 , 9, 41363-41370	11
1213	Fabrication of Highly Flexible Hierarchical Polypyrrole/Carbon Nanotube on Eggshell Membranes for Supercapacitors. 2017 , 2, 2866-2877	43
1212	Wearable and Washable Conductors for Active Textiles. 2017 , 9, 25542-25552	84
1211	Piezoelectric Microstructured Fibers via Drawing of Multimaterial Preforms. 2017 , 7, 2907	22
1210	Graphene-Fiber-Based Supercapacitors Favor N-Methyl-2-pyrrolidone/Ethyl Acetate as the Spinning Solvent/Coagulant Combination. 2017 , 9, 24568-24576	29
1209	Single-Thread-Based Wearable and Highly Stretchable Triboelectric Nanogenerators and Their Applications in Cloth-Based Self-Powered Human-Interactive and Biomedical Sensing. 2017 , 27, 1604462	242
1208	Facile Synthesis of Heterostructured Nickel/Nickel Oxide Wrapped Carbon Fiber: Flexible Bifunctional Gas-Evolving Electrode for Highly Efficient Overall Water Splitting. 2017 , 5, 529-536	51
1207	Quantifying Energy Harvested from Contact-Mode Hybrid Nanogenerators with Cascaded Piezoelectric and Triboelectric Units. 2017 , 7, 1601569	51
1206	Structure and Property of Electronic Polymers. 2017 , 63-106	
1205	Enzymatic sensing with laccase-functionalized textile organic biosensors. 2017 , 40, 51-57	30
1204	Microfluidic Patterning of Metal Structures for Flexible Conductors by In Situ Polymer-Assisted Electroless Deposition. 2017 , 4, 1600313	32
1203	Electro-conductive fabrics based on dip coating of cotton in poly(3-hexylthiophene). 2017 , 28, 583-589	11

1202 Structure and design of polymers for durable, stretchable organic electronics. 2017 , 49, 41-60	55
Hierarchically nanostructured carbon fiber-nickel-carbon nanotubes for high-performance supercapacitor electrodes. 2017 , 186, 70-73	12
Scalable single crystalline PMN-PT nanobelts sculpted from bulk for energy harvesting. 2017 , 31, 239-246	39
ZnO nanostructure electrodeposited on flexible conductive fabric: A flexible photo-sensor. 2017 , 240, 1106-1113	20
Remote tactile sensing system integrated with magnetic synapse. 2017 , 7, 16963	16
Preparation and properties of electro-conductive fabrics based on polypyrrole: covalent vs. non-covalent attachment. 2017 , 254, 032002	6
Surface heat sources on textile composites [Modeling and implementation. 2017,	1
1195 . 2017,	O
1194 Transparent thermocouples based on spray-coated nanocomposites. 2017 ,	4
Materials, Mechanics, and Patterning Techniques for Elastomer-Based Stretchable Conductors. 2017 , 8, 7	35
1192 Highly Sensitive and Stretchable Strain Sensor Based on Ag@CNTs. 2017 , 7,	31
1191 Wearable Sensors for Remote Health Monitoring. 2017 , 17,	520
Oxide Thin-Film Transistors on Fibers for Smart Textiles. 2017 , 5, 31	5
1189 Energy Harvesting Based on Polymer. 2017 , 151-196	6
1188 Fabrication of Photovoltaic Textiles. 2017 , 7, 63	25
1187 Simulation of Magnetically-Actuated Functional Gradient Nanocomposites. 2017 , 7, 1171	2
1186 Towards Flexible Patch Antennas: Characterization of Introduced Gaps. 2017,	
1185 Functional Finishing of Viscose Knitted Fabrics via Graphene Coating. 2017 , 12, 155892501701200	4

1184	Holey nickel hydroxide nanosheets for wearable solid-state fiber-supercapacitors. 2018 , 10, 5442-5448	39
1183	Multifunctional devices based on SnO@rGO-coated fibers for human motion monitoring, ethanol detection, and photo response. 2018 , 29, 195501	8
1182	Large-Area Reduced Graphene Oxide Composite Films for Flexible Asymmetric Sandwich and Microsized Supercapacitors. 2018 , 28, 1707247	85
1181	Electronic Circuits Integration in Textiles for Data Processing in Wearable Technologies. 2018 , 3, 1700320	29
1180	Light emitting fabrics based on luminophore dye-doped ion gel electrolyte microfibers. 2018 , 154, 188-193	7
1179	Flexible Fiber and Fabric Batteries. 2018 , 3, 1700302	17
1178	Development of Surface-Engineered Tape-Casting Method for Fabricating Freestanding Carbon Nanotube Sheets Containing Fe2O3 Nanoparticles for Flexible Batteries. 2018 , 20, 1701019	13
1177	Wearable sweat sensors. 2018 , 1, 160-171	588
1176	Evaluation of the Electromagnetic Shielding Effectiveness of Carbon-Based Screen Printed Polyester Fabrics. 2018 , 19, 313-320	7
1175	Materials and Wearable Devices for Autonomous Monitoring of Physiological Markers. <i>Advanced Materials</i> , 2018 , 30, e1705024	110
1174	Toward Enhancing Wearability and Fashion of Wearable Supercapacitor with Modified Polyurethane Artificial Leather Electrolyte. 2018 , 10, 38	33
1173	Kirigami enhances film adhesion. 2018 , 14, 2515-2525	46
1172	Flexible supercapacitors based on a ternary composite of polyaniline/polypyrrole/graphite on gold coated sandpaper. 2018 , 274, 200-207	36
1171	Optimization of flexible substrate by gradient elastic modulus design for performance improvement of flexible electronic devices. 2018 , 11, 051601	1
1170	A Polypyrrole Elastomer Based on Confined Polymerization in a Host Polymer Network for Highly Stretchable Temperature and Strain Sensors. 2018 , 14, e1800394	42
1169	Surface-conductive UHMWPE fibres via in situ reduction and deposition of graphene oxide. 2018 , 148, 167-176	13
1168	Mechanical energy harvester based on cashmere fibers. 2018 , 6, 11198-11204	15
1167	Multifunctional Wearable Electronic Textiles Using Cotton Fibers with Polypyrrole and Carbon Nanotubes. 2018 , 10, 13783-13795	114

1166	Synthesis and application of iron-based nanomaterials as anodes of lithium-ion batteries and supercapacitors. 2018 , 6, 9332-9367	118
1165	Pyroprotein-based electronic textiles with high thermal durability. 2018 , 21, 944-950	4
1164	Systematic study and experiment of a flexible pressure and tactile sensing array for wearable devices applications. 2018 , 28, 075019	6
1163	Flexible strain sensor based on aerogel-spun carbon nanotube yarn with a core-sheath structure. 2018 , 108, 107-113	35
1162	Electrohydrodynamic printing of silver nanowires for flexible and stretchable electronics. 2018 , 10, 6806-681	1 149
1161	Paper-based all-solid-state flexible asymmetric micro-supercapacitors fabricated by a simple pencil drawing methodology. 2018 , 29, 587-591	19
1160	Low-cost ultra-stretchable strain sensors for monitoring human motion and bio-signals. 2018 , 271, 182-191	53
1159	Self-Adaptive Switch Enabling Complete Charge Separation in Molecular-Based Optoelectronic Conversion. 2018 , 9, 837-843	7
1158	Room-temperature processing of silver submicron fiber mesh for flexible electronics. 2018 , 2,	8
1157	Self-Powered Wearable Electrocardiography Using a Wearable Thermoelectric Power Generator. 2018 , 3, 501-507	144
1156	Paper Based, Expanded Graphite/Polypyrrole Nanocomposite Supercapacitors Free from Binders and Current Collectors. 2018 , 165, A283-A290	16
1155	Highly Stretchable Core-Sheath Fibers via Wet-Spinning for Wearable Strain Sensors. 2018 , 10, 6624-6635	153
1154	NiCo2O4 grown on Co/C hybrid nanofiber film with excellent electrochemical performance for flexible supercapacitor electrodes. 2018 , 29, 6909-6915	11
1153	Three dimensional photovoltaic fibers for wearable energy harvesting and conversion. 2018 , 27, 611-621	18
1152	Enhancement of dielectric constant in polymer-ceramic nanocomposite for flexible electronics and energy storage applications. 2018 , 157, 48-56	60
1151	Two-dimensional ZnO nanosheets grown on flexible ITO-PET substrate for self-powered energy-harvesting nanodevices. 2018 , 112, 063906	26
1150	Synthesis and characterization of polyaniline/tosylcellulose stearate composites as promising semiconducting materials. 2018 , 236, 44-53	22
1149	Hybrid functional microfibers for textile electronics and biosensors. 2018 , 39, 011009	2

1148	Magnetosensitive e-skins with directional perception for augmented reality. 2018, 4, eaao2623	64	
1147	Review of vibration-based energy harvesting technology: Mechanism and architectural approach. 2018 , 42, 1866-1893	86	
1146	Coaxial Thermoplastic Elastomer-Wrapped Carbon Nanotube Fibers for Deformable and Wearable Strain Sensors. 2018 , 28, 1705591	163	
1145	Mechanically Tunable Magnetic Properties of Flexible SrRuO3 Epitaxial Thin Films on Mica Substrates. 2018 , 4, 1700522	41	
1144	Self-powered nanofiber-based screen-print triboelectric sensors for respiratory monitoring. 2018 , 11, 3771-3779	72	
1143	High-Performance Stretchable Conductive Composite Fibers from Surface-Modified Silver Nanowires and Thermoplastic Polyurethane by Wet Spinning. 2018 , 10, 2093-2104	86	
1142	Ultrastretchable Strain Sensors Using Carbon Black-Filled Elastomer Composites and Comparison of Capacitive Versus Resistive Sensors. 2018 , 3, 1700284	139	
1141	A novel CuCo2S4/polyacrylonitrile ink for flexible film supercapacitors. 2018 , 215, 268-271	12	
1140	Polymer optical fibres in healthcare: solutions, applications and implications. A perspective. 2018 , 67, 1150-1154	4	
1139	Recent progress of unconventional and multifunctional integrated supercapacitors. 2018, 29, 564-570	17	
1138	From nano to micro to macro: Electrospun hierarchically structured polymeric fibers for biomedical applications. 2018 , 81, 80-113	199	
1137	Highly Flexible Resistive Switching Memory Based on the Electronic Switching Mechanism in the Al/TiO/Al/Polyimide Structure. 2018 , 10, 1828-1835	44	
1136	Cellulose Fiber-Based Hierarchical Porous Bismuth Telluride for High-Performance Flexible and Tailorable Thermoelectrics. 2018 , 10, 1743-1751	56	
1135	Highly washable e-textile prepared by ultrasonic nanosoldering of carbon nanotubes onto polymer fibers. 2018 , 6, 883-889	39	
1134	3D Printing of NinjaFlex Filament onto PEDOT:PSS-Coated Textile Fabrics for Electroluminescence Applications. 2018 , 47, 2082-2092	28	
1133	Foldable Electrode Architectures Based on Silver-Nanowire-Wound or Carbon-Nanotube-Webbed Micrometer-Scale Fibers of Polyethylene Terephthalate Mats for Flexible Lithium-Ion Batteries. 22 Advanced Materials, 2018 , 30, 1705445	37	
1132	Mechanical Strain-Tunable Microwave Magnetism in Flexible CuFe2O4 Epitaxial Thin Film for Wearable Sensors. 2018 , 28, 1705928	46	
1131	Micro-patterned graphene-based sensing skins for human physiological monitoring. 2018 , 29, 105503	13	

(2018-2018)

1130	Non-volatile resistive memory devices based on solution-processed natural DNA biomaterial. 2018 , 54, 216-221	21
1129	Twisting patterning: electrochemical deposition of stretchable spiral metallic conductors on elastic polymer threads. 2018 , 6, 1215-1223	1
1128	All-in-one fiber for stretchable fiber-shaped tandem supercapacitors. 2018 , 45, 210-219	126
1127	Flexible fiber-shaped non-enzymatic sensors with a graphene-metal heterostructure based on graphene fibres decorated with gold nanosheets. 2018 , 136, 329-336	41
1126	A Highly Stretchable, Sensitive, and Transparent Strain Sensor Based on Binary Hybrid Network Consisting of Hierarchical Multiscale Metal Nanowires. 2018 , 3, 1800020	38
1125	Full fabric sensing network with large deformation for continuous detection of skin temperature. 2018 , 27, 105017	15
1124	A unified theoretical model for Triboelectric Nanogenerators. 2018 , 48, 391-400	52
1123	High-Output Lead-Free Flexible Piezoelectric Generator Using Single-Crystalline GaN Thin Film. 2018 , 10, 12839-12846	40
1122	Durable, Highly Electrically Conductive Cotton Fabrics with Healable Superamphiphobicity. 2018 , 10, 12042-12050	73
1121	Exploring non-linearities of carbon-based microsupercapacitors from an equivalent circuit perspective. 2018 , 6, 7162-7167	15
1120	Energy harvesting textiles for a rainy day: woven piezoelectrics based on melt-spun PVDF microfibres with a conducting core. 2018 , 2,	81
1119	Wearable strain sensing textile based on one-dimensional stretchable and weavable yarn sensors. 2018 , 11, 5799-5811	71
1118	Ultra-thin chips for high-performance flexible electronics. 2018 , 2,	151
1117	Effects of weaving structures and parameters on the radiation properties of three-dimensional fabric integrated microstrip antennas. 2018 , 88, 2182-2189	3
1116	Textile-Enabled Highly Reproducible Flexible Pressure Sensors for Cardiovascular Monitoring. 2018 , 3, 1700222	56
1115	Quantitative characterisation of conductive fibers by capacitive coupling. 2017 , 143, 215-223	5
1114	Fiber-Based Thermoelectric Generators: Materials, Device Structures, Fabrication, Characterization, and Applications. 2018 , 8, 1700524	79
1113	Chemically doped macroscopic graphene fibers with significantly enhanced thermoelectric properties. 2018 , 11, 741-750	59

1112	Superelastic wire-shaped supercapacitor sustaining 850% tensile strain based on carbon nanotube@graphene fiber. 2018 , 11, 2347-2356	46
1111	Polymer-Based Technologies for Sensing Applications. 2018 , 90, 459-479	31
1110	React-on-Demand (RoD) Fabrication of Highly Conductive Metal P olymer Hybrid Structure for Flexible Electronics via One-Step Direct Writing or Printing. 2018 , 28, 1704671	5
1109	Continuously prepared highly conductive and stretchable SWNT/MWNT synergistically composited electrospun thermoplastic polyurethane yarns for wearable sensing. 2018 , 6, 2258-2269	301
1108	Toward Stretchable Self-Powered Sensors Based on the Thermoelectric Response of PEDOT:PSS/Polyurethane Blends. 2018 , 28, 1704285	119
1107	Preparation of Highly Conductive Yarns by an Optimized Impregnation Process. 2018 , 47, 1970-1978	4
1106	Simple Synthesis of Au-Pd Alloy Nanowire Networks as Macroscopic, Flexible Electrocatalysts with Excellent Performance. 2018 , 10, 602-613	28
1105	Crosslinked carbon nanofiber films with hierarchical pores as flexible electrodes for high performance supercapacitors. 2018 , 141, 17-25	16
1104	Recent Progress of Textile-Based Wearable Electronics: A Comprehensive Review of Materials, Devices, and Applications. 2018 , 14, 1703034	318
1103	Core-shell nanofiber mats for tactile pressure sensor and nanogenerator applications. 2018 , 44, 248-255	142
1102	Towards wearable electronic devices: A quasi-solid-state aqueous lithium-ion battery with outstanding stability, flexibility, safety and breathability. 2018 , 44, 164-173	176
1101	Weavable and Highly Efficient Organic Light-Emitting Fibers for Wearable Electronics: A Scalable, Low-Temperature Process. 2018 , 18, 347-356	77
1100	Hierarchically porous sheathlore graphene-based fiber-shaped supercapacitors with high energy density. 2018 , 6, 896-907	62
1099	Energy harvesting from a piezoelectric slipper during walking. 2018 , 29, 1456-1463	12
1098	A Critical Review of Wireless Health Monitoring Devices. 2018,	0
1097	Smart Materials for Wearable Healthcare Devices. 2018,	2
1096	Development of Fiber Optic Chemical Sensor for Monitoring Acid Rain Level. 2018 , 384, 012069	1
1095	Soft-Material-Based Smart Insoles for a Gait Monitoring System. 2018 , 11,	13

1094	A printed physiological monitoring module in e-textile. 2018 ,	2
1093	Stitchable supercapacitors with high energy density and high rate capability using metal nanoparticle-assembled cotton threads. 2018 , 6, 20421-20432	17
1092	Sewing machine stitching of polyvinylidene fluoride fibers: programmable textile patterns for wearable triboelectric sensors. 2018 , 6, 22879-22888	50
1091	Large-Time-Step-Based Ray-Tracing Modeling of Light Delivery in One-Sidedly Cladding-Removed Step-Index Plastic Optical Fiber under Arbitrary Weave Structure. 2018 , 2018, 1-12	
1090	Bioinspired Macroscopic Ribbon Fibers with a Nacre-Mimetic Architecture Based on Highly Ordered Alignment of Ultralong Hydroxyapatite Nanowires. 2018 , 12, 12284-12295	23
1089	Comparative Study on Conductive Knitted Fabric Electrodes for Long-Term Electrocardiography Monitoring: Silver-Plated and PEDOT:PSS Coated Fabrics. 2018 , 18,	28
1088	Geometric influence of cylindrical surface curvature on the electrostatics of thin film transistors. 2018 , 3, 045006	0
1087	Human Motion Recognition Using E-textile Sensor and Adaptive Neuro-Fuzzy Inference System. 2018 , 19, 2657-2666	9
1086	Capillarity-Driven Self-Assembly of Silver Nanowires-Coated Fibers for Flexible and Stretchable Conductor. 2018 , 13, 1850146	3
1085	Multifunctional Flax Fibres Based on the Combined Effect of Silver and Zinc Oxide (Ag/ZnO) Nanostructures. 2018 , 8,	34
1084	Stretchable capacitive fabric electronic skin woven by electrospun nanofiber coated yarns for detecting tactile and multimodal mechanical stimuli. 2018 , 6, 12981-12991	61
1083	Fabrication of a Bilayer Structure of Cu and Polyimide To Realize Circuit Microminiaturization and High Interfacial Adhesion in Flexible Electronic Devices. 2018 , 10, 44589-44602	10
1082	Carbon Nanotubes and Related Nanomaterials: Critical Advances and Challenges for Synthesis toward Mainstream Commercial Applications. 2018 , 12, 11756-11784	239
1081	Copper/carbon nanotube composites: research trends and outlook. 2018 , 5, 180814	52
1080	Effect of Hardness on Surface Strain of PDMS Films Detected by a Surface Labeled Grating Method. 2018 , 31, 523-526	5
1079	A Freestanding Stretchable and Multifunctional Transistor with Intrinsic Self-Healing Properties of all Device Components. 2019 , 15, e1803939	31
1078	Recent Progress in Micro-Supercapacitor Design, Integration, and Functionalization. 2018, 3, 1800367	71
1077	Graphene electronic fibres with touch-sensing and light-emitting functionalities for smart textiles. 2018 , 2,	44

1076	Highly Sensitive and Flexible Strain-Pressure Sensors with Cracked Paddy-Shaped MoS/Graphene Foam/Ecoflex Hybrid Nanostructures. 2018 , 10, 36377-36384	86
1075	A hierarchical structure of l-cysteine/Ag NPs/hydrogel for conductive cotton fabrics with high stability against mechanical deformation. 2018 , 25, 7355-7367	13
1074	Solid-State Rechargeable Zn//NiCo and ZnAir Batteries with Ultralong Lifetime and High Capacity: The Role of a Sodium Polyacrylate Hydrogel Electrolyte. 2018 , 8, 1802288	146
1073	Wearable fiberform hygroelectric generator. 2018 , 53, 698-705	35
1072	2D titanium carbide (MXene) for wireless communication. 2018 , 4, eaau0920	219
1071	Fabric-based self-powered noncontact smart gloves for gesture recognition. 2018 , 6, 20277-20288	27
1070	Thermoplastic Elastomer Systems Containing Carbon Nanofibers as Soft Piezoresistive Sensors. 2018 , 3, 12648-12657	13
1069	Supersensitive all-fabric pressure sensors using printed textile electrode arrays for human motion monitoring and humanthachine interaction. 2018 , 6, 13120-13127	57
1068	Versatile nanodot-patterned Gore-Tex fabric for multiple energy harvesting in wearable and aerodynamic nanogenerators. 2018 , 54, 209-217	35
1067	Flexible and stable high-energy lithium-sulfur full batteries with only 100% oversized lithium. 2018 , 9, 4480	129
1066	Stable Logic Operation of Fiber-Based Single-Walled Carbon Nanotube Transistor Circuits Toward Thread-Like CMOS Circuitry. 2018 , 11,	4
1065	Carbon Nanotube-Graphene Composites Fibers. 2018 , 61-86	1
1064	Characterization of Green and Sustainable Advanced Materials. 2018, 35-66	6
1063	Device Configurations and Future Prospects of Flexible/Stretchable Lithium-Ion Batteries. 2018 , 28, 1805596	88
1062	Nanoscale Variable-Area Electronic Devices: Contact Mechanics and Hypersensitive Pressure Application. 2018 , 10, 39168-39176	11
1061	Flexible MetalAir Batteries. 2018, 367-396	2
1060	Flexible Lithium-Air Battery in Ambient Air with an In Situ Formed Gel Electrolyte. 2018 , 57, 16131-16135	64
1059	Skin-touch-actuated textile-based triboelectric nanogenerator with black phosphorus for durable biomechanical energy harvesting. 2018 , 9, 4280	270

1058 A shearable and thickness stretchable finite strain beam model for soft structures. **2018**, 53, 3759-3777

1057	Defect-engineered reduced graphene oxide sheets with high electric conductivity and controlled thermal conductivity for soft and flexible wearable thermoelectric generators. 2018 , 54, 163-174	64
1056	Flexible Lithium Air Battery in Ambient Air with an In Situ Formed Gel Electrolyte. 2018, 130, 16363-16367	5
1055	Applications of Textile Materials Using Emerging Sources and Technology: A New Perspective. 2018 , 49-83	12
1054	Stretchable metal films. 2018 , 3, 043001	10
1053	Introduction to Photonics: Principles and the Most Recent Applications of Microstructures. 2018 , 9,	21
1052	Structural design of wearable electronics suitable for highly-stretched joint areas. 2018, 27, 105042	8
1051	Direct laser-patterned ultra-wideband antennae with carbon nanotubes 2018 , 8, 31331-31336	
1050	Thermal stability and Young's modulus of mechanically exfoliated flexible mica. 2018, 18, 1486-1491	5
1049	Two-dimensional materials for miniaturized energy storage devices: from individual devices to smart integrated systems. 2018 , 47, 7426-7451	270
1048	Fabrication of Visible Light-Induced Antibacterial and Self-Cleaning Cotton Fabrics Using Manganese Doped TiO Nanoparticles 2018 , 1, 1154-1164	47
1047	Flexible and recyclable conductive composite based on few-layered graphene with excellent self-healing capability. 2018 , 108, 536-541	11
1046	Electrospun poly(methyl methacrylate) fibrous mat showing piezoelectric properties. 2018, 57, 05GC06	9
1045	Large-Scale Production of Highly Stretchable CNT/Cotton/Spandex Composite Yarn for Wearable Applications. 2018 , 10, 32726-32735	68
1044	Directly printed wearable electronic sensing textiles towards humanfinachine interfaces. 2018 , 6, 12841-1284	8 37
1043	Weaving Sensing Fibers into Electrochemical Fabric for Real-Time Health Monitoring. 2018 , 28, 1804456	136
1042	4.2 V wearable asymmetric supercapacitor devices based on a VOx//MnOx paper electrode and an eco-friendly deep eutectic solvent-based gel electrolyte. 2018 , 6, 20686-20694	27
1041	Stretchable and Wearable Triboelectric Nanogenerator Based on Kinesio Tape for Self-Powered Human Motion Sensing. 2018 , 8,	27

1040	Reduced Graphene Oxide-Based Artificial Synapse Yarns for Wearable Textile Device Applications. 2018 , 28, 1804123		30
1039	In Situ Growth of the NiVO@PANI Composite Electrode for Flexible and Transparent Symmetric Supercapacitors. 2018 , 10, 20688-20695		53
1038	Screen-Printed Washable Electronic Textiles as Self-Powered Touch/Gesture Tribo-Sensors for Intelligent Human-Machine Interaction. 2018 , 12, 5190-5196		271
1037	Elastic Fiber Supercapacitors for Wearable Energy Storage. 2018 , 39, e1800103		21
1036	Wearable rGO-Ag NW@cotton fiber piezoresistive sensor based on the fast charge transport channel provided by Ag nanowire. 2018 , 50, 528-535		57
1035	Value added transformation of ubiquitous substrates into highly efficient and flexible electrodes for water splitting. 2018 , 9, 2014		68
1034	Plotter-assisted integration of wearable all-solid-state micro-supercapacitors. 2018 , 50, 410-416		21
1033	Superelastic Multimaterial Electronic and Photonic Fibers and Devices via Thermal Drawing. <i>Advanced Materials</i> , 2018 , 30, e1707251	24	87
1032	Stretchable Transparent Electrodes with Solution-Processed Regular Metal Mesh for an Electroluminescent Light-Emitting Film. 2018 , 10, 21009-21017		34
1031	The Cu/Cu2O nanocomposite as a p-type transparent-conductive-oxide for efficient bifacial-illuminated perovskite solar cells. 2018 , 6, 6280-6286		11
1030	A Flexible and Knittable Fiber Supercapacitor for Wearable Energy Storage with High Energy Density and Mechanical Robustness. 2018 , 165, A1515-A1522		19
1029	Ternary composite solid-state flexible supercapacitor based on nanocarbons/manganese dioxide/PEDOT:PSS fibres. 2018 , 155, 194-202		24
1028	Solution-Processable Design of Fiber-Shaped Wearable Zn//Ni(OH)2 Battery. 2018 , 6, 2326-2332		19
1027	A Solid-State Fibriform Supercapacitor Boosted by Host-Guest Hybridization between the Carbon Nanotube Scaffold and MXene Nanosheets. 2018 , 14, e1801203		99
1026	FeP@C Nanotube Arrays Grown on Carbon Fabric as a Low Potential and Freestanding Anode for High-Performance Li-Ion Batteries. 2018 , 14, e1800793		73
1025	Electrochemical energy storage devices for wearable technology: a rationale for materials selection and cell design. 2018 , 47, 5919-5945		215
1024	Important effect of Pt modification at the collector/active material interface of flexible micro-supercapacitors. 2018 , 456, 410-418		4
1023	Environment-friendly, durable, electro-conductive, and highly transparent heaters based on silver nanowire functionalized keratin nanofiber textiles. 2018 , 6, 7847-7854		13

1022 Silver Nanowire-Based Flexible Transparent Composite Film for Curvature Measurements. **2018**, 1, 3859-3866 10

1021 Fiber-Based Sensors: Enabling Next-Generation Ubiquitous Textile Systems. 2018 , 153-171	3
1020 Flexible supercapacitor electrodes based on TiO2/rGO/TiO2 sandwich type hybrids. 2018 , 44, 4132-4141	20
Hierarchical core-sheath polypyrrole@carbon nanotube/bacterial cellulose macrofibers with high electrochemical performance for all-solid-state supercapacitors. 2018 , 283, 1578-1588	32
Textile Concentric Ring Electrodes: Influence of Position and Electrode Size on Cardiac Activity Monitoring. 2018 , 2018, 1-9	5
1017 Flexible substrate sensors for multiplex biomarker monitoring. 2018 , 8, 627-641	10
1016 Advances in Flexible and Wearable Energy-Storage Textiles. 2018 , 2, 1800124	87
1015 Recent Progress in Flexible Fibrous Batteries. 2018 , 5, 3127-3137	7
1014 High-performance flexible yarn for wearable piezoelectric nanogenerators. 2018 , 27, 095018	37
Promoting Alternative Flexible Substrate for Electrode Materials to Achieve Enhanced Lithium Storage Properties. 2018 , 3, 6965-6971	6
1012 A Historical Review of the Development of Electronic Textiles. 2018 , 6, 34	57
1011 Fiber/Yarn-Based Flexible Supercapacitor. 2018 , 37-65	
Ultraflexible Near-Infrared Organic Photodetectors for Conformal Photoplethysmogram Sensors. Advanced Materials, 2018 , 30, e1802359	. 111
Washable and Reliable Textile Electrodes Embedded into Underwear Fabric for Electrocardiography (ECG) Monitoring. 2018 , 11,	57
1008 Novel Nano-Materials and Nano-Fabrication Techniques for Flexible Electronic Systems. 2018 , 9,	24
1007 Conductive Cotton Fabrics for Motion Sensing and Heating Applications. 2018, 10,	53
1006 Real Time Analysis of Bioanalytes in Healthcare, Food, Zoology and Botany. 2017 , 18,	15
Wire-Shaped Supercapacitors with Organic Electrolytes Fabricated via Layer-by-Layer Assembly. 2018 , 10, 26248-26257	25

1004	Highly sensitive pressure sensors based on conducting polymer-coated paper. 2018 , 273, 1195-1201	28
1003	Rapid Self-Recoverable Hydrogels with High Toughness and Excellent Conductivity. 2018 , 10, 26610-26617	53
1002	Microfiber-Knitted Crossweave Patterns for Multiresolution Physical Kineses Analysis Electronics. 2018 , 3, 1800107	8
1001	Recent advances in organic sensors for health self-monitoring systems. 2018 , 6, 8569-8612	80
1000	Revolutions in wearable technology for apparel. 2018 , 325-339	0
999	Recent Advances in Soft E-Textiles. 2018 , 3, 23	9
998	Chemically-modified stainless steel mesh derived substrate-free iron-based composite as anode materials for affordable flexible energy storage devices. 2018 , 284, 271-278	20
997	Integrated Flexible Conversion Circuit between a Flexible Photovoltaic and Supercapacitors for Powering Wearable Sensors. 2018 , 165, B3122-B3129	20
996	Conductive and durable CNT-cotton ring spun yarns. 2018, 25, 4239-4249	22
995	Electrically conducting fibres for e-textiles: An open playground for conjugated polymers and carbon nanomaterials. 2018 , 126, 1-29	109
994	Application of flash-light sintering method to flexible inkjet printing using anti-oxidant copper nanoparticles. 2018 , 656, 61-67	26
993	Freestanding, Fiber-Based, Wearable Temperature Sensor with Tunable Thermal Index for Healthcare Monitoring. 2018 , 7, e1800074	108
992	Manganese-Oxide-Based Electrode Materials for Energy Storage Applications: How Close Are We to the Theoretical Capacitance?. <i>Advanced Materials</i> , 2018 , 30, e1802569	68
991	Breathable and Flexible Piezoelectric ZnO@PVDF Fibrous Nanogenerator for Wearable Applications. 2018 , 10,	56
990	Superior piezoresistive strain sensing behaviors of carbon nanotubes in one-dimensional polymer fiber structure. 2018 , 140, 1-9	80
989	Structural and electrochemical properties of LiMn0.6Fe0.4PO4 as a cathode material for flexible lithium-ion batteries and self-charging power pack. 2018 , 52, 510-516	52
988	High-performance, color-tunable fiber shaped organic light-emitting diodes. 2018 , 10, 16184-16192	25
987	Effects of ACFs Modulus and Adhesion Strength on the Bending Reliability of CIF (Chip-in-Flex) Packages at Humid Environment. 2018 ,	2

(2018-2018)

986	Graphene Nanoplatelets-Based Advanced Materials and Recent Progress in Sustainable Applications. 2018 , 8, 1438		108
985	Breathable Dry Silver/Silver Chloride Electronic Textile Electrodes for Electrodermal Activity Monitoring. 2018 , 8,		11
984	Modelling and applications of conductive elements on textile materials. 2018, 37, 1645-1656		5
983	Regional Stiffness Reduction Using Lamina Emergent Torsional Joints for Flexible Printed Circuit Board Design. 2018 , 140,		8
982	Embroidered Metamaterial Antenna for Optimized Performance on Wearable Applications. 2018 , 215, 1800377		6
981	High-Performance Biscrolled MXene/Carbon Nanotube Yarn Supercapacitors. 2018 , 14, e1802225		114
980	Enhanced electrochemical properties of hierarchically sheath-core aligned carbon nanofibers coated carbon fiber yarn electrode-based supercapacitor via polyaniline nanowire array modification. 2018 , 399, 406-413		44
979	Stress and Magnetic Field Bimode Detection Sensors Based on Flexible CI/CNTs-PDMS Sponges. 2018 , 10, 30774-30784		37
978	Flexible, high-sensitive, and wearable strain sensor based on organic crystal for human motion detection. 2018 , 61, 304-311		21
977	Versatile CoreBheath Yarn for Sustainable Biomechanical Energy Harvesting and Real-Time Human-Interactive Sensing. 2018 , 8, 1801114		153
976	Multiresponsive Graphene-Aerogel-Directed Phase-Change Smart Fibers. <i>Advanced Materials</i> , 2018 , 30, e1801754	24	172
975	An Intrinsically Self-Healing NiCo Zn Rechargeable Battery with a Self-Healable Ferric-Ion-Crosslinking Sodium Polyacrylate Hydrogel Electrolyte. 2018 , 57, 9810-9813		121
974	PDMS with designer functionalities P roperties, modifications strategies, and applications. 2018 , 83, 97-134		237
973	Wearables in Medicine. <i>Advanced Materials</i> , 2018 , 30, e1706910	24	223
972	Fiber-Type Solar Cells, Nanogenerators, Batteries, and Supercapacitors for Wearable Applications. 2018 , 5, 1800340		79
971	A bottom-up approach to design wearable and stretchable smart fibers with organic vapor sensing behaviors and energy storage properties. 2018 , 6, 13633-13643		44
970	Optical-reconfigurable carbon nanotube and indium-tin-oxide complementary thin-film transistor logic gates. 2018 , 10, 13122-13129		11
969	An Intrinsically Self-Healing NiCo Zn Rechargeable Battery with a Self-Healable Ferric-Ion-Crosslinking Sodium Polyacrylate Hydrogel Electrolyte. 2018 , 130, 9958-9961		10

968	Freestanding Electrode Pairs with High Areal Density Fabricated under High Pressure and High Temperature for Flexible Lithium Ion Batteries. 2018 , 1, 3171-3179	8
967	All-Textile Electronic Skin Enabled by Highly Elastic Spacer Fabric and Conductive Fibers. 2019 , 11, 33336-3334	16 ₄
966	Tunable Conducting Polymers: Toward Sustainable and Versatile Batteries. 2019, 7, 14321-14340	50
965	Smart machine learning or discovering meaningful physical and chemical contributions through dimensional stacking. 2019 , 5,	12
964	Overview of Flexible and Stretchable Approaches. 2019 , 95-111	
963	Progress on wearable triboelectric nanogenerators in shapes of fiber, yarn, and textile. 2019 , 20, 837-857	48
962	Geometry dependent application of stretchable printed antenna. 2019,	1
961	Deformation-Resilient Embroidered Near Field Communication Antenna and Energy Harvesters for Wearable Applications. 2019 , 1, 1900056	17
960	Multifunctional Electronic Textiles Using Silver Nanowire Composites. 2019 , 11, 31028-31037	55
959	Electrodeposition of EMnO/EMnO on Carbon Nanotube for Yarn Supercapacitor. 2019 , 9, 11271	36
958	Porous Fibers Composed of Polymer Nanoball Decorated Graphene for Wearable and Highly Sensitive Strain Sensors. 2019 , 29, 1903732	68
957	Low-Leakage Fiber-Based Field-Effect Transistors with an Al2O3MgO Nanolaminate as Gate Insulator. 2019 , 1, 1400-1407	12
956	The Road to Practical E-Textiles Is Smooth as Silk. 2019 , 1, 20-21	2
955	Polymer-Assisted Metal Deposition (PAMD) for Flexible and Wearable Electronics: Principle, Materials, Printing, and Devices. <i>Advanced Materials</i> , 2019 , 31, e1902987	80
954	Direct dip-coating of carbon nanotubes onto polydopamine-templated cotton fabrics for wearable applications. 2019 , 26, 7569-7579	37
953	Commercial Silk-Based Electronic Yarns Fabricated Using Microwave Irradiation. 2019 , 11, 27353-27357	5
952	Flexible and Washable Poly(Ionic Liquid) Nanofibrous Membrane with Moisture Proof Pressure Sensing for Real-Life Wearable Electronics. 2019 , 11, 27200-27209	55
951	Smart Inot only intelligent!ICo-creating priorities and design direction for SmartIfootwear to support independent ageing 2019 , 12, 313-324	7

950	Development of textile-based transmission lines using conductive yarns and ultrasonic welding technology for e-textile applications. 2019 , 14, 155892501985660	5
949	Multifunctional Fibers to Shape Future Biomedical Devices. 2019 , 29, 1902834	51
948	Method for Assessment of Folding-Reliability of Flexible Electronics in Wearable Applications. 2019	
947	A Review of Human-Powered Energy Harvesting for Smart Electronics: Recent Progress and Challenges. 2019 , 6, 821-851	63
946	Designing Textile Architectures for High Energy-Efficiency Human Body Sweat- and Cooling-Management. 2019 , 1, 61-70	25
945	Planar all-solid-state rechargeable ZnEir batteries for compact wearable energy storage. 2019 , 7, 17581-1759	377
944	Advanced Functional Fiber and Smart Textile. 2019 , 1, 3-31	87
943	Conductive Bicomponent Fibers Containing Polyaniline Produced via Side-by-Side Electrospinning. 2019 , 11,	26
942	Characterization of Knitted Coils for e-Textiles. 2019 , 19, 7835-7840	8
941	Direct Ink Writing of Wearable Thermoresponsive Supercapacitors with rGO/CNT Composite Electrodes. 2019 , 4, 1900691	21
940	Recent Progress on Zinc-Ion Rechargeable Batteries. 2019 , 11, 90	114
939	Bibliometric Analysis of Wearable Devices and Their Applications to English Education. 2019,	1
938	Design and Fabrication of Silk Templated Electronic Yarns and Applications in Multifunctional Textiles. 2019 , 1, 1411-1425	50
937	Reaction Mechanism of Pt Atomic Layer Deposition on Various Textile Surfaces. 2019 , 31, 8995-9002	4
936	Composite of manganese dioxide impregnated in porous hollow carbon spheres for flexible asymmetric solid-state supercapacitors. 2019 , 43, 9025-9033	10
935	Fabrication and Characterization of Wrapped Metal Yarns-based Fabric Temperature Sensors. 2019 , 11,	3
934	Leather-Based Strain Sensor with Hierarchical Structure for Motion Monitoring. 2019 , 4, 1900442	19
933	Graphene-Based Flexible Actuators, Sensors, and Supercapacitors. 2019 , 299-337	

932	Stamp-Assisted Gravure Printing of Micro-Supercapacitors with General Flexible Substrates. 2019,	3
931	The rise of flexible electronics in neuroscience, from materials selection to in vitro and in vivo applications. 2019 , 4, 1664319	6
930	Pico- to nanosecond pulsed laser-induced forward transfer (LIFT) of silver nanoparticle inks: a comparative study. 2019 , 125, 1	7
929	Ultra-Sensitive Piezo-Resistive Sensors Constructed with Reduced Graphene Oxide/Polyolefin Elastomer (RGO/POE) Nanofiber Aerogels. 2019 , 11,	2
928	A Polyaniline-Based Redox-Active Composite Gel Electrolyte with Photo-Electric and Electrochromic Properties. 2019 , 6, 5888-5895	7
927	Template-Electrodeposited and Imprint-Transferred Microscale Metal-Mesh Transparent Electrodes for Flexible and Stretchable Electronics. 2019 , 21, 1900723	18
926	Kirigami-Inspired Textile Electronics: K.I.T.E 2019 , 4, 1900511	16
925	Versatile 3D porous recycled carbon garments with fully-loaded active materials in the current collector for advanced lithium-ion batteries. 2019 , 179, 107519	4
924	Wearable Multimodal Stethoscope Patch for Wireless Biosignal Acquisition and Long-Term Auscultation. 2019 , 2019, 5781-5785	7
923	Fabrics and Garments as Sensors: A Research Update. 2019 , 19,	21
923 922	Fabrics and Garments as Sensors: A Research Update. 2019 , 19, Ultrastretchable Elastic Shape Memory Fibers with Electrical Conductivity. 2019 , 6, 1901579	21 46
922	Ultrastretchable Elastic Shape Memory Fibers with Electrical Conductivity. 2019 , 6, 1901579 Ultrathin PEDOT:PSS/rGO Aerogel Providing Tape-Like Self-Healable Electrode for Sensing Space	46
922	Ultrastretchable Elastic Shape Memory Fibers with Electrical Conductivity. 2019 , 6, 1901579 Ultrathin PEDOT:PSS/rGO Aerogel Providing Tape-Like Self-Healable Electrode for Sensing Space Electric Field with Electrochemical Mechanism. 2019 , 5, 1900637 Lithium Titanate Cuboid Arrays Grown on Carbon Fiber Cloth for High-Rate Flexible Lithium-Ion	46 16
922 921 920	Ultrastretchable Elastic Shape Memory Fibers with Electrical Conductivity. 2019, 6, 1901579 Ultrathin PEDOT:PSS/rGO Aerogel Providing Tape-Like Self-Healable Electrode for Sensing Space Electric Field with Electrochemical Mechanism. 2019, 5, 1900637 Lithium Titanate Cuboid Arrays Grown on Carbon Fiber Cloth for High-Rate Flexible Lithium-Ion Batteries. 2019, 15, e1902183 Self-Powered Inhomogeneous Strain Sensor Enabled Joint Motion and Three-Dimensional Muscle	46 16 23
922 921 920 919	Ultrastretchable Elastic Shape Memory Fibers with Electrical Conductivity. 2019, 6, 1901579 Ultrathin PEDOT:PSS/rGO Aerogel Providing Tape-Like Self-Healable Electrode for Sensing Space Electric Field with Electrochemical Mechanism. 2019, 5, 1900637 Lithium Titanate Cuboid Arrays Grown on Carbon Fiber Cloth for High-Rate Flexible Lithium-Ion Batteries. 2019, 15, e1902183 Self-Powered Inhomogeneous Strain Sensor Enabled Joint Motion and Three-Dimensional Muscle Sensing. 2019, 11, 34251-34257	46 16 23
922 921 920 919 918	Ultrastretchable Elastic Shape Memory Fibers with Electrical Conductivity. 2019, 6, 1901579 Ultrathin PEDOT:PSS/rGO Aerogel Providing Tape-Like Self-Healable Electrode for Sensing Space Electric Field with Electrochemical Mechanism. 2019, 5, 1900637 Lithium Titanate Cuboid Arrays Grown on Carbon Fiber Cloth for High-Rate Flexible Lithium-Ion Batteries. 2019, 15, e1902183 Self-Powered Inhomogeneous Strain Sensor Enabled Joint Motion and Three-Dimensional Muscle Sensing. 2019, 11, 34251-34257 . 2019, A novel investigation on ZnO nanostructures on carbon fabric for harvesting thermopower on	46 16 23 27

914	Carbon-Nanotube-Coated 3D Microspring Force Sensor for Medical Applications. 2019 , 11, 35577-35586	18
913	Wearable gas/strain sensors based on reduced graphene oxide/linen fabrics. 2019 , 13, 305-313	14
912	One-step growth of large-area silicon nanowire fabrics for high-performance multifunctional wearable sensors. 2019 , 12, 2723-2728	7
911	Flexible Piezoelectric Harvester for Human Fingers: Measurements and Applications. 2019,	1
910	. 2019,	1
909	Human-interactive drone system remotely controlled by printed strain/pressure sensors consisting of carbon-based nanocomposites. 2019 , 182, 107784	10
908	Stretchable Conductive Adhesives with Superior Electrical Stability as Printable Interconnects in Washable Textile Electronics. 2019 , 11, 37043-37050	15
907	A feasible strategy to prepare quantum dot-incorporated carbon nanofibers as free-standing platforms. 2019 , 1, 3948-3956	1
906	Challenges and opportunities for supercapacitors. 2019 , 7, 100901	85
905	Piezoresistive Characteristics of Nylon Thread Resistive Memories for Wearable Strain Sensors. 2019 , 9, 623	2
904	Low-voltage-operating complementary-like circuits using ambipolar organic-inorganic hybrid thin-film transistors with solid-state-electrolyte gate insulator. 2019 , 75, 105358	9
903	A smart glove with integrated triboelectric nanogenerator for self-powered gesture recognition and language expression. 2019 , 20, 964-971	28
902	Solar-driven conversion of arylboronic acids to phenols using metal-free heterogeneous photocatalysts. 2019 , 378, 63-67	8
901	Conductive nanomaterials for 2D and 3D printed flexible electronics. 2019 , 48, 1712-1740	199
900	The alignment of BCZT particles in PDMS boosts the sensitivity and cycling reliability of a flexible piezoelectric touch sensor. 2019 , 7, 961-967	36
899	Using Artificial Skin Devices as Skin Replacements: Insights into Superficial Treatment. 2019 , 15, e1805453	34
898	Ultra-thick semi-crystalline photoactive donor polymer for efficient indoor organic photovoltaics. 2019 , 58, 466-475	59
897	Bio-Integrated Wearable Systems: A Comprehensive Review. 2019 , 119, 5461-5533	496

896	Recent Progress in Stretchable Batteries for Wearable Electronics. 2019 , 2, 181-199	65
895	Study of Fiber-Based Wearable Energy Systems. 2019 , 52, 307-315	53
894	Strategic Design of Clay-Based Multifunctional Materials: From Natural Minerals to Nanostructured Membranes. 2019 , 29, 1807611	39
893	Emerging Technologies of Flexible Pressure Sensors: Materials, Modeling, Devices, and Manufacturing. 2019 , 29, 1808509	175
892	Towards truly wearable energy harvesters with full structural integrity of fiber materials. 2019 , 58, 365-374	44
891	Multi-dimensional nanocomposites for stretchable thermoelectric applications. 2019 , 114, 043902	16
890	A Flexible Magnetic Field Sensor Based on AgNWs & MNs-PDMS. 2019 , 14, 27	6
889	Stretchable and Highly Sensitive Braided Composite Yarn@Polydopamine@Polypyrrole for Wearable Applications. 2019 , 11, 7338-7348	61
888	Critical insight: challenges and requirements of fibre electrodes for wearable electrochemical energy storage. 2019 , 12, 2148-2160	85
887	Progress on triboelectric nanogenerator with stretchability, self-healability and bio-compatibility. 2019 , 59, 237-257	105
886	Solvent-Induced Nanotopographies of Single Microfibers Regulate Cell Mechanotransduction. 2019 , 11, 7671-7685	23
885	Ultrastretchable and superior healable supercapacitors based on a double cross-linked hydrogel electrolyte. 2019 , 10, 536	150
884	Development of a novel highly conductive and flexible cotton yarn for wearable pH sensor technology. 2019 , 287, 338-345	34
883	A facile and scalable process to synthesize flexible lithium ion conductive glass-ceramic fibers 2019 , 9, 4157-4161	14
882	Molecular Interactions in Electrospinning: From Polymer Mixtures to Supramolecular Assemblies. 2019 , 1, 298-308	41
881	Textile-based washable polymer solar cells for optoelectronic modules: toward self-powered smart clothing. 2019 , 12, 1878-1889	86
88o	1T-Molybdenum disulfide/reduced graphene oxide hybrid fibers as high strength fibrous electrodes for wearable energy storage. 2019 , 7, 3143-3149	30
879	Flexible self-powered textile formed by bridging photoactive and electrochemically active fiber electrodes. 2019 , 7, 14447-14454	16

(2019-2019)

878	Flexible Organic Thermoelectric Materials and Devices for Wearable Green Energy Harvesting. 2019 , 11,	36
877	Keratin-Graphene Nanocomposite: Transformation of Waste Wool in Electronic Devices. 2019 ,	8
876	A flexible bimodal sensor based on an electrospun nanofibrous structure for simultaneous pressure-temperature detection. 2019 , 11, 14242-14249	16
875	Fine printing method of silver nanowire electrodes with alignment and accumulation. 2019 , 30, 37LT03	12
874	Paper-based porous graphene/single-walled carbon nanotubes supported Pt nanoparticles as freestanding catalyst for electro-oxidation of methanol. 2019 , 257, 117886	24
873	One step densification of printed multilayers by SPS: Towards new piezoelectric energy harvester MEMS. 2019 , 219-255	
872	An efficient hydrothermal transformation approach for construction of controllable carbon coating on carbon fiber from renewable carbohydrate. 2019 , 491, 478-487	14
871	Flexible fiber-shaped supercapacitors with high energy density based on self-twisted graphene fibers. 2019 , 433, 226711	24
870	Preparation of sulfur-doped graphene fibers and their application in flexible fibriform micro-supercapacitors. 2019 , 13, 145-153	7
869	Soft and stretchable electrochemical biosensors. 2019 , 7, 100041	27
868	Plasmonically Engineered Textile Polymer Solar Cells for High-Performance, Wearable Photovoltaics. 2019 , 11, 20864-20872	21
867	Review of clothing for thermal management with advanced materials. 2019 , 26, 6415-6448	41
866	Multi-Layered, Hierarchical Fabric-Based Tactile Sensors with High Sensitivity and Linearity in Ultrawide Pressure Range. 2019 , 29, 1902484	73
865	Pulsed laser deposition of complex oxide heteroepitaxy. 2019 , 60, 481-501	12
864	CNT/cotton composite yarn for electro-thermochromic textiles. 2019 , 28, 085003	17
863	Recent Advances in Fabrication Methods for Flexible Antennas in Wearable Devices: State of the Art. 2019 , 19,	48
862	CoreBheath Porous Polyaniline Nanorods/Graphene Fiber-Shaped Supercapacitors with High Specific Capacitance and Rate Capability. 2019 , 2, 4335-4344	39
861	Low-Voltage-Manipulating Spin Dynamics of Flexible FeO Films through Ionic Gel Gating for Wearable Devices. 2019 , 11, 21727-21733	12

860	Materials and structural designs of stretchable conductors. 2019 , 48, 2946-2966	189
859	Cable-Shaped LithiumBulfur Batteries Based on Nitrogen-Doped Carbon/Carbon Nanotube Composite Yarns. 2019 , 304, 1900201	2
858	Insights into the fabrication of sub-100 nm textured thermally drawn fibers. 2019 , 125, 175301	10
857	Laser-Induced Graphene Composites for Printed, Stretchable, and Wearable Electronics. 2019 , 4, 1900162	34
856	Flexible piezoelectric energy harvesters using different architectures of ferrite based nanocomposites. 2019 , 21, 3478-3488	13
855	Long Liquid Crystal Elastomer Fibers with Large Reversible Actuation Strains for Smart Textiles and Artificial Muscles. 2019 , 11, 19514-19521	92
854	Spiral Steel Wire Based Fiber-Shaped Stretchable and Tailorable Triboelectric Nanogenerator for Wearable Power Source and Active Gesture Sensor. 2019 , 11, 39	77
853	Bioinspired Polydopamine-Based Resistive-Switching Memory on Cotton Fabric for Wearable Neuromorphic Device Applications. 2019 , 4, 1900151	17
852	Assembly and applications of 3D conformal electronics on curvilinear surfaces. 2019 , 6, 642-683	90
851	High-Performance Flexible Thermoelectric Devices Based on All-Inorganic Hybrid Films for Harvesting Low-Grade Heat. 2019 , 29, 1900304	66
850	Wearable solid-state capacitors based on two-dimensional material all-textile heterostructures. 2019 , 11, 9912-9919	24
849	Highly Stretchable and Strain-Insensitive Fiber-Based Wearable Electrochemical Biosensor to Monitor Glucose in the Sweat. 2019 , 91, 6569-6576	121
848	Electrical percolation threshold of carbon black in a polymer matrix and its application to antistatic fibre. 2019 , 9, 6338	32
847	A novel straightforward wet pulling technique to fabricate carbon nanotube fibers. 2019 , 150, 69-75	15
846	Water-Resistant and Skin-Adhesive Wearable Electronics Using Graphene Fabric Sensor with Octopus-Inspired Microsuckers. 2019 , 11, 16951-16957	37
845	The Rise of Fiber Electronics. 2019 , 131, 13778-13788	11
844	The Rise of Fiber Electronics. 2019 , 58, 13643-13653	48
843	High-Performance Symmetric Supercapacitor Constructed Using Carbon Cloth Boosted by Engineering Oxygen-Containing Functional Groups. 2019 , 11, 18044-18050	61

842	Flourishing Smart Flexible Membranes Beyond Paper. 2019 , 91, 4224-4234	11
841	Spatial and temporal tunability of magnetically-actuated gradient nanocomposites. 2019 , 15, 3133-3148	8
840	Wash-stable, oxidation resistant conductive cotton electrodes for wearable electronics 2019 , 9, 9198-9203	11
839	3D printed graphene/polydimethylsiloxane composite for stretchable strain sensor with tunable sensitivity. 2019 , 30, 345501	28
838	Extremely Versatile Deformability beyond Materiality: A New Material Platform through Simple Cutting for Rugged Batteries. 2019 , 21, 1900206	8
837	High resistive state retention in room temperature solution processed biocompatible memory devices for health monitoring applications. 2019 , 4, 1409-1415	1
836	Polyacrylonitrile-carbon Nanotube-polyacrylonitrile: A Versatile Robust Platform for Flexible Multifunctional Electronic Devices in Medical Applications. 2019 , 304, 1900014	11
835	Literature Review. 2019 , 17-81	
834	Flexible Molybdenum Disulfide (MoS) Atomic Layers for Wearable Electronics and Optoelectronics. 2019 , 11, 11061-11105	146
833	Critical importance of current collector property to the performance of flexible electrochemical power sources. 2019 , 30, 1282-1288	12
832	Carbon-based electronic textiles: materials, fabrication processes and applications. 2019 , 54, 10079-10101	23
831	Electronic and Thermal Properties of Graphene and Recent Advances in Graphene Based Electronics Applications. 2019 , 9,	96
830	Recent advances in triboelectric nanogenerator based self-charging power systems. 2019 , 23, 617-628	105
829	A liquid PEDOT:PSS electrode-based stretchable triboelectric nanogenerator for a portable self-charging power source. 2019 , 11, 7513-7519	39
828	Screen Printing of Graphene Oxide Patterns onto Viscose Nonwovens with Tunable Penetration Depth and Electrical Conductivity. 2019 , 11, 14944-14951	35
827	A Universal Stamping Method of Graphene Transfer for Conducting Flexible and Transparent Polymers. 2019 , 9, 3999	20
826	Highly stretchable multi-walled carbon nanotube/thermoplastic polyurethane composite fibers for ultrasensitive, wearable strain sensors. 2019 , 11, 5884-5890	103
825	Wearable eye health monitoring sensors based on peacock tail-inspired inverse opal carbon. 2019 , 288, 734-741	29

824	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	18
823	Kirigami Patterning of MXene/Bacterial Cellulose Composite Paper for All-Solid-State Stretchable Micro-Supercapacitor Arrays. 2019 , 6, 1900529	143
822	A tactile sensing textile with bending-independent pressure perception and spatial acuity. 2019 , 149, 63-70	19
821	Photocurable Stretchable Conductors with Low Dynamic Resistance Variation. 2019 , 1, 718-726	2
820	Coaxial Printing of Silicone Elastomer Composite Fibers for Stretchable and Wearable Piezoresistive Sensors. 2019 , 11,	28
819	Highly Stretchable and Transparent Double-Network Hydrogel Ionic Conductors as Flexible Thermal-Mechanical Dual Sensors and Electroluminescent Devices. 2019 , 11, 16765-16775	143
818	Human-motion interactive energy harvester based on polyaniline functionalized textile fibers following metal/polymer mechano-responsive charge transfer mechanism. 2019 , 60, 794-801	9
817	All-carbon fiber-based chemical sensor: Improved reversible NO2 reaction kinetics. 2019 , 290, 293-301	18
816	Printable Smart Pattern for Multifunctional Energy-Management E-Textile. 2019 , 1, 168-179	92
815	Ultrathin TiCT (MXene) Nanosheet-Wrapped NiSe Octahedral Crystal for Enhanced Supercapacitor Performance and Synergetic Electrocatalytic Water Splitting. 2019 , 11, 31	78
814	Polymeric foams for flexible and highly sensitive low-pressure capacitive sensors. 2019 , 3,	63
813	Resistive switching behavior and mechanism in flexible TiO2@Cf memristor crossbars. 2019 , 45, 10182-10186	10
812	Graphene-Based Planar Microsupercapacitors: Recent Advances and Future Challenges. 2019 , 4, 1800200	40
811	Dispersion of LiZnTiBi ferrite particles into PMDS film for miniaturized flexible antenna application. 2019 , 45, 8914-8918	13
810	Printing Conductive Nanomaterials for Flexible and Stretchable Electronics: A Review of Materials, Processes, and Applications. 2019 , 4, 1800546	194
809	Buckled Structures: Fabrication and Applications in Wearable Electronics. 2019 , 15, e1804805	46
808	The synthesis of rGO, rGO/RuO2 and rGO/RuO2/PVK nanocomposites, and their supercapacitors. 2019 , 787, 851-864	16
807	In Situ Growth of a High-Performance All-Solid-State Electrode for Flexible Supercapacitors Based on a PANI/CNT/EVA Composite. 2019 , 11,	12

806	Highly flexible, breathable, tailorable and washable power generation fabrics for wearable electronics. 2019 , 58, 750-758		112
805	Highly stretchable ionic conducting hydrogels for strain/tactile sensors. 2019 , 167, 154-158		21
804	Remotely Controlled in Situ Growth of Silver Microwires Forming Bioelectronic Interfaces. 2019 , 11, 892	28-893	3 6 6
803	Design, fabrication and characterization of capacitive humidity sensors based on emerging flexible technologies. 2019 , 287, 459-467		26
802	Design, Performance, and Application of Thermoelectric Nanogenerators. 2019 , 15, e1805241		45
801	An end-capped poly(ethylene carbonate)-based concentrated electrolyte for stable cyclability of lithium battery. 2019 , 302, 286-290		12
800	Polypyrrole@metal-organic framework (UIO-66)@cotton fabric electrodes for flexible supercapacitors. 2019 , 26, 3387-3399		42
799	2D materials for 1D electrochemical energy storage devices. 2019 , 19, 102-123		49
798	Wearable and Implantable Triboelectric Nanogenerators. 2019 , 29, 1808820		166
797	Engineering Graphene Flakes for Wearable Textile Sensors via Highly Scalable and Ultrafast Yarn Dyeing Technique. 2019 , 13, 3847-3857		115
796	Bio-inspired intelligent structural color materials. 2019 , 6, 945-958		123
795	Effect of MWCNT content on the mechanical and strain-sensing performance of Thermoplastic Polyurethane composite fibers. 2019 , 146, 701-708		47
794	Automatic Biomechanical Workload Estimation for Construction Workers by Computer Vision and Smart Insoles. 2019 , 33, 04019010		22
793	Ionic liquidEctivated wearable electronics. 2019 , 8, 78-85		30
79²	Fast and scalable wet-spinning of highly conductive PEDOT:PSS fibers enables versatile applications. 2019 , 7, 6401-6410		85
79 ¹	A Novel Method for Embedding Semiconductor Dies within Textile Yarn to Create Electronic Textiles. 2019 , 7, 12		10
790	Mechanical characterization of soft substrates for wearable and washable electronic systems. 2019 , 7, 031505		7
789	Microstructured Fibers for the Production of Food. <i>Advanced Materials</i> , 2019 , 31, e1807282	24	24

MXene Based Dipole Antennas Involving Effects of Sheet Resistance. **2019**,

787	Textile based ferroelectret for wearable energy harvesting. 2019 , 1407, 012117	
786	Fabricating Fibers of a Porous-Polystyrene Shell and Particle-Loaded Core. 2019 , 24,	7
7 ⁸ 5	Colloidal nanoparticle inks for printing functional devices: emerging trends and future prospects. 2019 , 7, 23301-23336	56
784	Electrical Properties of Silver-Attached Amine Functionalized Carbon Black/Polyethylene Terephthalate Fibers Prepared by Melt-Spinning. 2019 , 11,	2
783	All-fiber tribo-ferroelectric synergistic electronics with high thermal-moisture stability and comfortability. 2019 , 10, 5541	61
782	Sandwich-structure transferable free-form OLEDs for wearable and disposable skin wound photomedicine. 2019 , 8, 114	42
781	Wearable Thermoelectric Nanogenerator Based on Carbon Nanotube for Energy Harvesting. 2019,	5
780	Advanced Multimaterial Electronic and Optoelectronic Fibers and Textiles. <i>Advanced Materials</i> , 24	129
779	Highly Ordered 3D Microstructure-Based Electronic Skin Capable of Differentiating Pressure, Temperature, and Proximity. 2019 , 11, 1503-1511	51
778	Highly stretchable and transparent dielectric gels for high sensitivity tactile sensors. 2019, 28, 024003	3
777	Inkjet Process for Conductive Patterning on Textiles: Maintaining Inherent Stretchability and Breathability in Knit Structures. 2019 , 29, 1807573	34
776	All-Solid-State Flexible Asymmetric Supercapacitors Fabricated by the Binder-Free Hydrophilic Carbon Cloth@MnO2 and Hydrophilic Carbon Cloth@Polypyrrole Electrodes. 2019 , 5, 1800721	28
775	High-performance textile electrodes for wearable electronics obtained by an improved in situ polymerization method. 2019 , 361, 897-907	55
774	Wet Transfer of Inkjet Printed Graphene for Microsupercapacitors on Arbitrary Substrates. 2019 , 2, 158-163	18
773	Effect of TiO2-rGO heterojunction on electron collection efficiency and mechanical properties of fiber-shaped dye-sensitized solar cells. 2019 , 52, 095502	15
772	Bidirectional and Stretchable Piezoresistive Sensors Enabled by Multimaterial 3D Printing of Carbon Nanotube/Thermoplastic Polyurethane Nanocomposites. 2018 , 11,	63
771	Fabrication and Application of Highly Stretchable Conductive Fiber-Based Electrode of Epoxy/NBR Electrospun Fibers Spray-Coated with AgNW/PU Composites. 2019 , 220, 1800387	13

770	Thermocapillary flows on heated substrates with sinusoidal topography. 2019 , 859, 992-1021	1
769	Wireless powered wearable micro light-emitting diodes. 2019 , 55, 454-462	54
768	Relationship between structure/properties of vapour deposited PEDOT and sensitivity to passive nitrate doping. 2019 , 281, 582-587	5
767	Progress in textile-based triboelectric nanogenerators for smart fabrics. 2019 , 56, 16-24	82
766	Investigation of hydrogen-bonding mediated molecular packing of diketopyrrolopyrrole based donor-acceptor oligomers in the solid state. 2019 , 160, 238-245	10
765	Micro-scale to nano-scale generators for energy harvesting: Self powered piezoelectric, triboelectric and hybrid devices. 2019 , 792, 1-33	80
764	Mussel-Inspired Flexible, Durable, and Conductive Fibers Manufacturing for Finger-Monitoring Sensors. 2019 , 6, 1801547	35
763	Inkjet Printing of Reactive Silver Ink on Textiles. 2019 , 11, 6208-6216	93
762	Thin-Film Electrode-Based Supercapacitors. 2019 , 3, 338-360	92
761	Ultrathin Fully Printed Light-Emitting Electrochemical Cells with Arbitrary Designs on Biocompatible Substrates. 2019 , 4, 1800641	38
760	2D reentrant micro-honeycomb structure of graphene-CNT in polyurethane: High stretchability, superior electrical/thermal conductivity, and improved shape memory properties. 2019 , 162, 580-588	38
759	Fabric texture design for boosting the performance of a knitted washable textile triboelectric nanogenerator as wearable power. 2019 , 58, 375-383	70
758	Wet-spun poly(ionic liquid)-graphene hybrid fibers for high performance all-solid-state flexible supercapacitors. 2019 , 34, 104-110	19
757	Joule heating-induced sp2-restoration in graphene fibers. 2019 , 142, 230-237	27
756	Smart Textiles and Their Role in Monitoring the Body Fitness and Medical Conditions. 2019, 484-490	
755	Recent progress on textile-based triboelectric nanogenerators. 2019 , 55, 401-423	113
754	Highly conductive and stretchable fiber interconnections using dry-spun carbon nanotube fibers modified with ionic liquid/poly(vinylidene fluoride) copolymer composite. 2019 , 169, 1-6	15
753	Fabrication and characterization of elastomeric semiconductive thiophene polymers by peroxide crosslinking. 2019 , 51, 257-263	7

752	Roll-to-roll electrochemical fabrication of non-polarizable silver/silver chloride-coated nylon yarn for biological signal monitoring. 2019 , 89, 3591-3600		2
751	Printable Fabrication of a Fully Integrated and Self-Powered Sensor System on Plastic Substrates. <i>Advanced Materials</i> , 2019 , 31, e1804285	24	102
750	Stretchable Aqueous Batteries: Progress and Prospects. 2019 , 4, 177-186		62
749	Advanced Carbon for Flexible and Wearable Electronics. <i>Advanced Materials</i> , 2019 , 31, e1801072	24	458
748	Processable Thermally Conductive Polyurethane Composite Fibers. 2019 , 304, 1800542		16
747	Nanogenerators for wearable bioelectronics and biodevices. 2019 , 52, 023002		23
746	The impact of different proportions of knitting elements on the resistive properties of conductive fabrics. 2019 , 89, 881-890		4
745	Graphene and graphene oxide-coated polyamide monofilament yarns for fiber-shaped flexible electrodes. 2019 , 110, 67-73		15
744	Recent Advances in Fiber Supercapacitors: Materials, Device Configurations, and Applications. <i>Advanced Materials</i> , 2020 , 32, e1901806	24	126
743	Fiber-Based Energy Conversion Devices for Human-Body Energy Harvesting. <i>Advanced Materials</i> , 2020 , 32, e1902034	24	120
742	Wearable strain sensor for human motion detection based on ligand-exchanged gold nanoparticles. 2020 , 82, 122-129		13
741	Ionic Tactile Sensors for Emerging Human-Interactive Technologies: A Review of Recent Progress. 2020 , 30, 1904532		54
740	On-Body Bioelectronics: Wearable Biofuel Cells for Bioenergy Harvesting and Self-Powered Biosensing. 2020 , 30, 1906243		74
739	Recent Advances in 1D Stretchable Electrodes and Devices for Textile and Wearable Electronics: Materials, Fabrications, and Applications. <i>Advanced Materials</i> , 2020 , 32, e1902532	24	111
738	Robust, Superelastic Hard Carbon with In Situ Ultrafine Crystals. 2020 , 30, 1907486		13
737	Smart Textile-Integrated Microelectronic Systems for Wearable Applications. <i>Advanced Materials</i> , 2020 , 32, e1901958	24	218
736	Application Challenges in Fiber and Textile Electronics. <i>Advanced Materials</i> , 2020 , 32, e1901971	24	161
735	Giant two-dimensional titania sheets for constructing a flexible fiber sodium-ion battery with long-term cycling stability. 2020 , 24, 504-511		15

734	1D Supercapacitors for Emerging Electronics: Current Status and Future Directions. <i>Advanced Materials</i> , 2020 , 32, e1902387	24	96
733	Flexible 1D Batteries: Recent Progress and Prospects. <i>Advanced Materials</i> , 2020 , 32, e1901961	24	69
732	A Route Toward Smart System Integration: From Fiber Design to Device Construction. <i>Advanced Materials</i> , 2020 , 32, e1902301	24	67
731	Graphene-Based Fibers: Recent Advances in Preparation and Application. <i>Advanced Materials</i> , 2020 , 32, e1901979	24	50
730	Fiber/Fabric-Based Piezoelectric and Triboelectric Nanogenerators for Flexible/Stretchable and Wearable Electronics and Artificial Intelligence. <i>Advanced Materials</i> , 2020 , 32, e1902549	24	450
729	Advanced materials of printed wearables for physiological parameter monitoring. 2020 , 32, 147-177		59
728	Morphology and electric potential-induced mechanical behavior of metallic porous nanostructures. 2020 , 8, 604-612		1
727	Development and application of self-healing materials in smart batteries and supercapacitors. 2020 , 380, 122565		81
726	Textile-like electrodes of seamless graphene/nanotubes for wearable and stretchable supercapacitors. 2020 , 446, 227355		36
725	Preparation and characterization of a novel piezoelectric nanogenerator based on soluble and meltable copolyimide for harvesting mechanical energy. 2020 , 67, 104220		14
724	Flexible and stretchable inorganic electronics: Conductive materials, fabrication strategy, and applicable devices. 2020 , 199-252		2
723	Recent Progress of Fiber Shaped Lighting Devices for Smart Display Applications-A Fibertronic Perspective. <i>Advanced Materials</i> , 2020 , 32, e1903488	24	44
722	Recent Progress and Perspectives of Thermally Drawn Multimaterial Fiber Electronics. <i>Advanced Materials</i> , 2020 , 32, e1904911	24	70
721	Improving the rate capability of ultrathin NiCo-LDH nanoflakes and FeOOH nanosheets on surface electrochemically modified graphite fibers for flexible asymmetric supercapacitors. 2020 , 560, 237-246	;	30
720	Nonlinear Free Vibration of Hyperelastic Beams Based on Neo-Hookean Model. 2020 , 20, 2050015		4
719	The electrical performance and conductive network of reduced graphene oxide-coated ultra-high-molecular-weight polyethylene fibers through electrostatic interaction and covalent bonding. 2020 , 137, 48946		1
718	Graphene-based wearable piezoresistive physical sensors. 2020 , 36, 158-179		109
717	Soft ionic devices by perfusable all-hydrogel microfluidics. 2020 , 8, 2320-2325		3

716	Network Structure Modification-Enabled Hybrid Polymer Dielectric Film with Zirconia for the Stretchable Transistor Applications. 2020 , 30, 1906647	15
715	Stretchable gold fiber-based wearable electrochemical sensor toward pH monitoring. 2020 , 8, 3655-3660	32
714	Water-based 2D printing of magnetically active cellulose derivative nanocomposites. 2020 , 233, 115855	4
713	Fibertronic Organic Light-Emitting Diodes toward Fully Addressable, Environmentally Robust, Wearable Displays. 2020 , 14, 1133-1140	31
712	Highly shape adaptive fiber based electronic skin for sensitive joint motion monitoring and tactile sensing. 2020 , 69, 104429	87
711	Active-powering pressure-sensing fabric devices. 2020 , 8, 358-368	15
710	Redox electroactive group-modified carbon cloth as flexible electrode for high performance solid-state supercapacitors. 2020 , 588, 124388	7
709	Washable and flexible screen printed graphene electrode on textiles for wearable healthcare monitoring. 2020 , 53, 125402	31
708	Recent progress on flexible and stretchable piezoresistive strain sensors: From design to application. 2020 , 114, 100617	95
707	Core-sheath nanofiber yarn for textile pressure sensor with high pressure sensitivity and spatial tactile acuity. 2020 , 561, 93-103	31
706	Foldable and washable fully textile-based pressure sensor. 2020 , 29, 055010	14
705	Recent innovations in artificial skin. 2020 , 8, 776-797	22
704	Hierarchically Structured Nitrogen-Doped Multilayer Reduced Graphene Oxide for Flexible Intercalated Supercapacitor Electrodes. 2020 , 3, 987-997	15
703	Investigation into tensile hysteresis of polyurethane-containing textile substrates for coated strain sensors. 2020 , 188, 108451	12
702	Electrospun SnSe/C nanofibers as binder-free anode for lithiumIbn and sodium-ion batteries. 2020 , 449, 227559	48
701	Nanocarbon Materials Toward Textile-Based Electrochemical Energy Storage Devices. 2020 , 123-143	1
700	Universal Scaling Law for the Size Effect on Superelasticity at the Nanoscale Promotes the Use of Shape-Memory Alloys in Stretchable Devices. 2020 , 6, 1900741	2

698	Continuous wet-spinning of flexible and water-stable conductive PEDOT: PSS/PVA composite fibers for wearable sensors. 2020 , 17, 134-140	42
697	Superhydrophobic and multi-responsive fabric composite with excellent electro-photo-thermal effect and electromagnetic interference shielding performance. 2020 , 391, 123537	46
696	A Naturally Integrated Smart Textile for Wearable Electronics Applications. 2020 , 5, 1900781	20
695	Tough and Stretchable Dual Ionically Cross-Linked Hydrogel with High Conductivity and Fast Recovery Property for High-Performance Flexible Sensors. 2020 , 12, 1577-1587	57
694	CoreBheath Stretchable Conductive Fibers for Safe Underwater Wearable Electronics. 2020, 5, 1900880	24
693	Textile-Based Stretchable and Flexible Glove Sensor for Monitoring Upper Extremity Prosthesis Functions. 2020 , 20, 1754-1760	17
692	Thermally drawn advanced functional fibers: New frontier of flexible electronics. 2020, 35, 168-194	74
691	Recent Advances of Wearable Antennas in Materials, Fabrication Methods, Designs, and Their Applications: State-of-the-Art. 2020 , 11,	20
690	Electrospun Nanofibers for New Generation Flexible Energy Storage. 2020,	13
689	Wearable strain sensors enabled by integrating one-dimensional polydopamine-enhanced graphene/polyurethane sensing fibers into textile structures. 2020 , 55, 17266-17283	5
688	Polycarbazole and Its Derivatives: Synthesis and Applications. A Review of the Last 10 Years. 2020 , 12,	24
687	Sustainable and high-power wearable glucose biofuel cell using long-term and high-speed flow in sportswear fabrics. 2020 , 169, 112652	22
686	Effect of yarn interlacement pattern on the surface electrical conductivity of intrinsically conductive fabrics. 2020 , 268, 116512	4
685	Silver Nanowire-Bacterial Cellulose Composite Fiber-Based Sensor for Highly Sensitive Detection of Pressure and Proximity. 2020 , 14, 15428-15439	50
684	A PEDOT:PSS and graphene-clad smart textile-based wearable electronic Joule heater with high thermal stability. 2020 , 8, 16204-16215	43
683	Nanoporous Boron Nitride Aerogel Film and Its Smart Composite with Phase Change Materials. 2020 ,	65
682	The Potential of Graphene Nanoplatelets in the Development of Smart and Multifunctional Ecocomposites. 2020 , 12,	9
681	Electronic textile reparability. 2020 , 276, 124328	5

680	A CNT-PDMS wearable device for simultaneous measurement of wrist pulse pressure and cardiac electrical activity. 2020 , 117, 111345	9
679	Fully physically cross-linked hydrogel as highly stretchable, tough, self-healing and sensitive strain sensors. 2020 , 210, 123039	17
678	Boosted Electrochemical Performance of Honeycomb-Like NiCuIIDH Nanosheets Anchoring on NiCo2S4 Nanotube Arrays for Flexible Solid-State Hybrid Supercapacitors. 2020 , 34, 13157-13166	14
677	Relaxation Constant in the Folding of Thin Viscoelastic Sheets. 2020 , 13,	3
676	Impedance spectroscopy and transport properties of polymer-based flexible nanocomposites. 2020 , 319, 114012	3
675	High-efficiency super-elastic liquid metal based triboelectric fibers and textiles. 2020 , 11, 3537	87
674	Flexible and Wearable Power Sources for Next-Generation Wearable Electronics. 2020 , 3, 1262-1274	14
673	Energy-generating textiles. 2020 , 415-455	2
672	Challenges in Design and Fabrication of Flexible/Stretchable Carbon- and Textile-Based Wearable Sensors for Health Monitoring: A Critical Review. 2020 , 20,	27
671	Textile Electronics for VR/AR Applications. 2020 , 31, 2007254	20
671 670	Textile Electronics for VR/AR Applications. 2020, 31, 2007254 Recent trends of biocompatible triboelectric nanogenerators toward self-powered e-skin. 2020, 2, e12065	19
, i		
670	Recent trends of biocompatible triboelectric nanogenerators toward self-powered e-skin. 2020 , 2, e12065 Piezoelectric PVDF-based sensors with high pressure sensitivity induced by chemical modification	19
6 ₇ 0	Recent trends of biocompatible triboelectric nanogenerators toward self-powered e-skin. 2020 , 2, e12065 Piezoelectric PVDF-based sensors with high pressure sensitivity induced by chemical modification of electrode surfaces. 2020 , 316, 112424 Micro/nanofiber-based noninvasive devices for health monitoring diagnosis and rehabilitation.	19
670 669 668	Recent trends of biocompatible triboelectric nanogenerators toward self-powered e-skin. 2020 , 2, e12065 Piezoelectric PVDF-based sensors with high pressure sensitivity induced by chemical modification of electrode surfaces. 2020 , 316, 112424 Micro/nanofiber-based noninvasive devices for health monitoring diagnosis and rehabilitation. 2020 , 7, 041309	19 3 21
670 669 668	Recent trends of biocompatible triboelectric nanogenerators toward self-powered e-skin. 2020, 2, e12065 Piezoelectric PVDF-based sensors with high pressure sensitivity induced by chemical modification of electrode surfaces. 2020, 316, 112424 Micro/nanofiber-based noninvasive devices for health monitoring diagnosis and rehabilitation. 2020, 7, 041309 Co3O4 Exsolved Defective Layered Perovskite Oxide for Energy Storage Systems. 2020, 5, 3828-3836 Effect of Metal-Ligand Coordination Complexes on Molecular Dynamics and Structure of	19 3 21
670 669 668 667	Recent trends of biocompatible triboelectric nanogenerators toward self-powered e-skin. 2020, 2, e12065 Piezoelectric PVDF-based sensors with high pressure sensitivity induced by chemical modification of electrode surfaces. 2020, 316, 112424 Micro/nanofiber-based noninvasive devices for health monitoring diagnosis and rehabilitation. 2020, 7, 041309 Co3O4 Exsolved Defective Layered Perovskite Oxide for Energy Storage Systems. 2020, 5, 3828-3836 Effect of Metal-Ligand Coordination Complexes on Molecular Dynamics and Structure of Cross-Linked Poly(dimethylosiloxane). 2020, 12,	19 3 21 13 3

662	Flat Yarn Fabric Substrates for Screen-Printed Conductive Textiles. 2020 , 22, 2000722	9
661	Ink-Based Additive Nanomanufacturing of Functional Materials for Human-Integrated Smart Wearables. 2020 , 2, 2000117	9
660	Printable elastic silver nanowire-based conductor for washable electronic textiles. 2020, 13, 2879-2884	12
659	Regenerated and rotation-induced cellulose-wrapped oriented CNT fibers for wearable multifunctional sensors. 2020 , 12, 16305-16314	8
658	Microcellular structure assisted phase transformation of polyvinylidene fluoride/titanium dioxide nanocomposites. 2020 , 0021955X2094566	О
657	Structured nanoscale metallic glass fibres with extreme aspect ratios. 2020 , 15, 875-882	30
656	Woven Textile Pressure Switch. 2020, 850, 297-302	
655	Multifunctional barium titanate ceramics via chemical modification tuning phase structure. 2020 , 2, 1163-119	0047
654	All-Inorganic Ionic Polymer-Based Memristor for High-Performance and Flexible Artificial Synapse. 2020 , 30, 2004245	15
653	Better, Faster, and Less Biased Machine Learning: Electromechanical Switching in Ferroelectric Thin Films. <i>Advanced Materials</i> , 2020 , 32, e2002425	8
652	Fabrication of a highly sensitive flexible humidity sensor based on Pt/polythiophene/reduced graphene oxide ternary nanocomposite films using a simple one-pot method. 2020 , 324, 128728	17
651	A Novel Capacitive-Based Flexible Pressure Sensor Based on Stretchable Composite Electrodes and a Dielectric Elastomer With Microstructures. 2020 , 8, 142810-142818	4
650	A multifunctional hydrogel polyelectrolyte based flexible and wearable supercapacitor. 2020 , 479, 229100	13
649	Theoretically optimized hybrid magnetic nanoparticle concentrations for functional gradient nanocomposites. 2020 , 10, 105209	1
648	Development of a multifunctional graphene/Fe-loaded polyester textile: robust electrical and catalytic properties. 2020 , 49, 17281-17300	7
647	Graphene-based encapsulation of liquid metal particles. 2020 , 12, 23995-24005	14
646	Thermally Responsive Photonic Fibers Consisting of Chained Nanoparticles. 2020 , 12, 50844-50851	11
645	Pyroelectric and Thermoelectric Nanogenerators. 2020 , 219-257	O

Dynamic frequency analysis of stress strain-dependent reversibly deformable broadband RF 644 antenna over unevenly made elastomeric substrate. 2020, 94, 1 Recent Technological Advances in Fabrication and Application of Organic Electrochemical 16 643 Transistors. 2020, 5, 2000523 Phase-Preferential blow-spun fabrics for wearable triboelectric nanogenerators and textile 642 35 interactive interface. 2020, 77, 105262 Seamlessly knitted stretchable comfortable textile triboelectric nanogenerators for E-textile 641 power sources. 2020, 78, 105327 Prospective Efficient Ambient Energy Harvesting Sources for IoT-Equipped Sensor Applications. 640 23 2020. 9. 1345 High performance flexible memristors based on a lead free AgBiI4 perovskite with an ultralow 639 13 operating voltage. **2020**, 8, 14155-14163 638 Stable Hydrogel Electrolytes for Flexible and Submarine-Use Zn-Ion Batteries. 2020, 12, 46005-46014 29 Solution-Blown Aligned Nanofiber Yarn and Its Application in Yarn-Shaped Supercapacitor. 2020, 3 13, Advances in Functional Polymer Nanofibers: From Spinning Fabrication Techniques to Recent 636 65 Biomedical Applications. 2020, 12, 45673-45701 Ultrasensitive and Stretchable Conductive Fibers Using Percolated Pd Nanoparticle Networks for 8 635 Multisensing Wearable Electronics: Crack-Based Strain and H Sensors. 2020, 12, 45243-45253 Enhanced laser action from smart fabrics made with rollable hyperbolic metamaterials. 2020, 4, 634 4 A Machine-Fabricated 3D Honeycomb-Structured Flame-Retardant Triboelectric Fabric for Fire 633 24 55 Escape and Rescue. Advanced Materials, 2020, 32, e2003897 Graphene Polyurethane Coatings for Deformable Conductors and Electromagnetic Interference 632 8 Shielding. 2020, 6, 2000429 Design of a Janus-Faced Electrode for Highly Stretchable ZincBilver Rechargeable Batteries. 2020, 631 30, 2004137 Highly-Sensitive Textile Pressure Sensors Enabled by Suspended-Type All Carbon Nanotube Fiber 630 4 Transistor Architecture. 2020, 11, Growth of c-plane and m-plane aluminium-doped zinc oxide thin films: epitaxy on flexible 629 substrates with cubic-structure seeds. 2020, 76, 233-240 628 Fabrication and properties of silver nanowires (AgNWs) functionalized fabric. 2020, 2, 1 2 Spirally Wrapped Carbon Nanotube Microelectrodes for Fiber Optoelectronic Devices beyond 14 Geometrical Limitations toward Smart Wearable E-Textile Applications. 2020,

77-3: Wearable Organic Light-Emitting Diode Displays - From Fibers to Textiles. **2020**, 51, 1149-1151

625	Development of a new additive manufacturing platform for direct freeform 3D printing of intrinsically curved flexible membranes. 2020 , 36, 101563	7
624	Design and Optimization of Piezoresistive PEO/PEDOT:PSS Electrospun Nanofibers for Wearable Flex Sensors. 2020 , 10,	7
623	A Review of Solar Energy Harvesting Electronic Textiles. 2020 , 20,	13
622	Fabrication of new conductive surface-metallized UHMWPE fabric with improved thermal resistance 2020 , 10, 15139-15147	4
621	Microstructure Design of Carbonaceous Fibers: A Promising Strategy toward High-Performance Weaveable/Wearable Supercapacitors. 2020 , 16, e2000653	26
620	Meso-Reconstruction of Wool Keratin 3D "Molecular Springs" for Tunable Ultra-Sensitive and Highly Recovery Strain Sensors. 2020 , 16, e2000128	20
619	Cellulose nanofiber based flexible N-doped carbon mesh for energy storage electrode with super folding endurance. 2020 , 17, 100441	4
618	Flexible Electronic Systems on Plastic Substrates and Textiles for Smart Wearable Technologies. 2020 , 5, 2000071	31
617	Synthesis of highly conductive hydrogel with high strength and super toughness. 2020 , 202, 122643	16
616	Continuous drywet spinning of white, stretchable, and conductive fibers of poly(3-hydroxybutyrate-co-4-hydroxybutyrate) and ATO@TiO2 nanoparticles for wearable e-textiles. 2020 , 8, 8362-8367	9
615	Recent Trends in Electrochemical Sensors for Vital Biomedical Markers Using Hybrid Nanostructured Materials. 2020 , 7, 1902980	29
614	In-situ Fabrication of Functional Materials inside Porous Fiber using Microwave Selective Heating. 2020 , 15, 1937-1940	2
613	Flexible and stretchable metal bxide nanofiber networks for multimodal and monolithically integrated wearable electronics. 2020 , 11, 2405	73
612	Fiber-Shaped Electronic Devices. 2020 , 557-591	1
611	3D printed stretchable triboelectric nanogenerator fibers and devices. 2020 , 75, 104973	35
610	Functionalised copper nanoparticle catalysts for electroless copper plating on textiles. 2020 , 396, 125971	11
609	Preparation and Characterization of Electrospun Conductive Janus Nanofibers with Polyaniline. 2020 , 2, 2819-2829	8

608	Unveiling the solid-solution charge storage mechanism in 1T vanadium disulfide nanoarray cathodes. 2020 , 8, 9068-9076	20
607	Graphene decorated carbonized cellulose fabric for physiological signal monitoring and energy harvesting. 2020 , 8, 12665-12673	34
606	Shape adaptable and highly resilient 3D braided triboelectric nanogenerators as e-textiles for power and sensing. 2020 , 11, 2868	143
605	High-performance textile electrode enhanced by surface modifications of fiberglass cloth with polypyrrole tentacles for flexible supercapacitors. 2020 , 44, 9166-9176	6
604	A Figurelof Merit for Flexible Batteries. 2020 , 4, 1346-1349	37
603	High-Performance Electromagnetic Interference Shielding Electrodes/Substrates for Wearable Electronics. 2020 , 59, 12774-12783	6
602	Ultra-flexible, stretchable, highly conductive and multi-functional textiles enabled by brush-painted PEDOT:PSS. 2020 , 29, 095002	4
601	Organic small molecule-based RRAM for data storage and neuromorphic computing. 2020 , 8, 12714-12738	30
600	Liquid metal gradient fibers with reversible thermal programmability. 2020 , 7, 2141-2149	21
599	A Highly Elastic and Fatigue-Resistant Natural Protein-Reinforced Hydrogel Electrolyte for Reversible-Compressible Quasi-Solid-State Supercapacitors. 2020 , 7, 2000587	20
598	Bath Electrospinning of Continuous and Scalable Multifunctional MXene-Infiltrated Nanoyarns. 2020 , 16, e2002158	38
597	A highly sensitive wearable flexible strain sensor based on polycrystalline MoS thin film. 2020 , 31, 385501	16
596	Evanescent fiber optic sensors using single mode fiber optics to measure acidity. 2020 , 830, 032037	
595	Polymer nanocomposite meshes for flexible electronic devices. 2020 , 107, 101279	44
594	Emerging Materials and Strategies for Personal Thermal Management. 2020 , 10, 1903921	115
593	Smart Textile-Based Personal Thermal Comfort Systems: Current Status and Potential Solutions. 2020 , 5, 1901155	34
592	Futuristic Clothes: Electronic Textiles and Wearable Technologies. 2020 , 4, 1900092	57
591	Self-supported materials for battery technology-A review. 2020 , 831, 154844	5

590	Sustainable and flexible hydrovoltaic power generator for wearable sensing electronics. 2020, 72, 104663	36
589	ReviewHexible and Stretchable Electrochemical Sensing Systems: Materials, Energy Sources, and Integrations. 2020 , 167, 037573	43
588	Wet-spinning assembly and in situ electrodeposition of carbon nanotube-based composite fibers for high energy density wire-shaped asymmetric supercapacitor. 2020 , 569, 298-306	15
587	3D knitted energy storage textiles using MXene-coated yarns. 2020 , 34, 17-29	52
586	All-organic flexible fabric antenna for wearable electronics. 2020 , 8, 5662-5667	20
585	Smart Textiles for Electricity Generation. 2020 , 120, 3668-3720	349
584	BaTiO assisted PAN fiber preparation of high performance flexible nanogenerator. 2020 , 31, 24LT01	3
583	Fabrication and Characterization of Piezoelectric Composite Nanofibers Based on Poly(vinylidene fluoride-co-hexafluoropropylene) and Barium Titanate Nanoparticle. 2020 , 21, 473-479	4
582	. 2020 , 20, 7774-7782	6
581	Fibers as Energy Materials. 2020, 649-680	1
580	Fibers as Energy Materials. 2020, 649-680 Motion Detection Using Tactile Sensors Based on Pressure-Sensitive Transistor Arrays. 2020, 20,	1 15
580	Motion Detection Using Tactile Sensors Based on Pressure-Sensitive Transistor Arrays. 2020 , 20, One-dimensional lithium ion capacitor in core-shell wire shape construction for wearable	15
580 579	Motion Detection Using Tactile Sensors Based on Pressure-Sensitive Transistor Arrays. 2020 , 20, One-dimensional lithium ion capacitor in core-shell wire shape construction for wearable applications. 2020 , 401, 126034	15
580 579 578	Motion Detection Using Tactile Sensors Based on Pressure-Sensitive Transistor Arrays. 2020, 20, One-dimensional lithium ion capacitor in core-shell wire shape construction for wearable applications. 2020, 401, 126034 Polymers in textiles. 2020, 331-363	15 8
580 579 578 577	Motion Detection Using Tactile Sensors Based on Pressure-Sensitive Transistor Arrays. 2020, 20, One-dimensional lithium ion capacitor in core-shell wire shape construction for wearable applications. 2020, 401, 126034 Polymers in textiles. 2020, 331-363 Advanced Thermoelectric Design: From Materials and Structures to Devices. 2020, 120, 7399-7515	15 8 482
580 579 578 577	Motion Detection Using Tactile Sensors Based on Pressure-Sensitive Transistor Arrays. 2020, 20, One-dimensional lithium ion capacitor in core-shell wire shape construction for wearable applications. 2020, 401, 126034 Polymers in textiles. 2020, 331-363 Advanced Thermoelectric Design: From Materials and Structures to Devices. 2020, 120, 7399-7515 Fibrous inductance strain sensors for passive inductance textile sensing. 2020, 15, 100243	15 8 482 11

572	Conductive graphene-based E-textile for highly sensitive, breathable, and water-resistant multimodal gesture-distinguishable sensors. 2020 , 8, 14778-14787	20
571	A Thermochromic Hydrogel for Camouflage and Soft Display. 2020 , 8, 2000031	12
570	Process-dependent effects of water on the chemistry of aluminum oxide and aromatic polyimide interface in composite materials. 2020 , 513, 145708	3
569	Solution-Processed Sensing Textiles with Adjustable Sensitivity and Linear Detection Range Enabled by Twisting Structure. 2020 , 12, 12155-12164	15
568	CoreBhell PEDOT:PSS/SA composite fibers fabricated via a single-nozzle technique enable wearable sensor applications. 2020 , 8, 4564-4571	20
567	Two-step synthesis of millimeter-scale flexible tubular supercapacitors. 2020 , 3,	9
566	Superresilient Hard Carbon Nanofabrics for Sodium-Ion Batteries. 2020 , 16, e1906883	27
565	Flexible room-temperature gas sensor based on poly (para-phenylene terephthalamide) fibers substrate coupled with composite NiO@CuO sensing materials for ammonia detection. 2020 , 46, 13827-138	34 ⁶
564	Quasi-solid-state fiber-shaped aqueous energy storage devices: recent advances and prospects. 2020 , 8, 6406-6433	34
563	Hierarchical WS@NiCoO Core-shell Heterostructure Arrays Supported on Carbon Cloth as High-Performance Electrodes for Symmetric Flexible Supercapacitors. 2020 , 5, 4657-4667	14
562	Highly Stretchable and Sensitive SBS/Graphene Composite Fiber for Strain Sensors. 2020, 305, 1900736	31
561	Polyaniline/Poly(acrylamide-co-sodium acrylate) Porous Conductive Hydrogels with High Stretchability by Freeze-Thaw-Shrink Treatment for Flexible Electrodes. 2020 , 305, 1900737	7
560	Electroforming-Free, Flexible, and Reliable Resistive Random-Access Memory Based on an Ultrathin TaO Film. 2020 , 12, 10681-10688	9
559	Computational generation and conformal fabrication of woven fabric structures by harmonic foliation. 2020 , 363, 112874	2
558	Highly machine-washable e-textiles with high strain sensitivity and high thermal conduction. 2020 , 8, 2741-2748	30
557	Flexible Piezoresistive Sensors based on Conducting Polymer-coated Fabric Applied to Human Physiological Signals Monitoring. 2020 , 17, 55-63	15
556	Emerging challenges in the thermal management of cellulose nanofibril-based supercapacitors, lithium-ion batteries and solar cells: A review. 2020 , 234, 115888	67
555	Solution-Processed Transparent Electrodes for Emerging Thin-Film Solar Cells. 2020 , 120, 2049-2122	76

554	Development and characterization of conductive textile (cotton) for wearable electronics and soft robotic applications. 2020 , 90, 1792-1804	6
553	Powering wearable bioelectronic devices. 2020 , 89-132	5
552	Multifunctional Conductive Hydrogel/Thermochromic Elastomer Hybrid Fibers with a Core-Shell Segmental Configuration for Wearable Strain and Temperature Sensors. 2020 , 12, 7565-7574	55
551	Conductive and Elastic 3D Helical Fibers for Use in Washable and Wearable Electronics. <i>Advanced Materials</i> , 2020 , 32, e1907495	38
550	A Wireless Textile-Based Sensor System for Self-Powered Personalized Health Care. 2020 , 2, 896-907	183
549	Reviewllextile Based Chemical and Physical Sensors for Healthcare Monitoring. 2020 , 167, 037546	67
548	Electrical cuing of chitosan's mesoscale organization. 2020 , 148, 104492	9
547	Conductive textiles prepared by spray coating of water-based graphene dispersions 2020 , 10, 2396-2403	14
546	Small-Scale Energy Harvesting from Environment by Triboelectric Nanogenerators. 2020,	2
545	Real-time sitting behavior tracking and analysis for rectification of sitting habits by strain sensor-based flexible data bands. 2020 , 31, 055102	4
544	Microfluidics-Based On-Demand Generation of Nonwoven and Single Polymer Microfibers. 2020 , 36, 1227-1234	7
543	A Review of Methods for the Electromagnetic Characterization of Textile Materials for the Development of Wearable Antennas. 2020 , 27-56	O
542	Properties of Conductive Polyacrylonitrile Fibers Prepared by Using Benzoxazine Modified Carbon Black. 2020 , 12,	9
541	Highly Conductive, Scalable, and Machine Washable Graphene-Based E-Textiles for Multifunctional Wearable Electronic Applications. 2020 , 30, 2000293	106
540	Highly stretchable CNT/MnO2 nanosheets fiber supercapacitors with high energy density. 2020 , 55, 8251-826	5 3 16
539	Computing Fabrics. 2020 , 2, 786-788	12
538	Self-powered wearable pressure sensing system for continuous healthcare monitoring enabled by flexible thin-film thermoelectric generator. 2020 , 73, 104773	50
537	Watching nanomaterials with X-ray eyes: Probing different length scales by combining scattering with spectroscopy. 2020 , 112, 100667	8

536	An intrinsically stretchable and ultrasensitive nanofiber-based resistive pressure sensor for wearable electronics. 2020 , 8, 5361-5369	19
535	Recent developments in nanofiber-based sensors for disease detection, immunosensing, and monitoring. 2020 , 2, 100005	17
534	A multifunctional wearable E-textile via integrated nanowire-coated fabrics. 2020 , 8, 8399-8409	31
533	Anti-fatigue and multifunctional core-spun yarns based on carbon nanotube springs. 2020 , 19, 127-133	6
532	In-situ tailored 3D Li2O@Cu nanowires array enabling stable lithium metal anode with ultra-high coulombic efficiency. 2020 , 463, 228178	16
531	A novel yarn spinning method for fabricating conductive and nanofiber-coated hybrid yarns. 2020 , 15280837	2091441
530	Oligolayered Ti3C2Tx MXene towards high performance lithium/sodium storage. 2020 , 13, 1659-1667	43
529	Biofuel-powered soft electronic skin with multiplexed and wireless sensing for human-machine interfaces. 2020 , 5,	204
528	Development of flexible Li-ion batteries for flexible electronics. 2020 , 2, 866-878	76
527	Nano Carbon Black-Based High Performance Wearable Pressure Sensors. 2020 , 10,	20
526	Wearable Cardiorespiratory Monitoring Employing a Multimodal Digital Patch Stethoscope: Estimation of ECG, PEP, LVETand Respiration Using a 55 mm Single-Lead ECG and Phonocardiogram. 2020 , 20,	23
525	Building Circular Economy for Smart Textiles, Smart Clothing, and Future Wearables. 2020 , 2, 1	11
524	Permeable graphited hemp fabrics-based, wearing-comfortable pressure sensors for monitoring human activities. 2021 , 403, 126191	18
523	Light emitting diodes technology-based photobiomodulation therapy (PBMT) for dermatology and aesthetics: Recent applications, challenges, and perspectives. 2021 , 135, 106698	4
522	Hollow Prussian blue analogue/g-C3N4 nanobox for all-solid-state asymmetric supercapacitor. 2021 , 404, 126284	16
521	Stretchable gold fiber-based wearable textile electrochemical biosensor for lactate monitoring in sweat. 2021 , 222, 121484	42
520	Selective Bragg reflection of visible light from coaxial electrospun fiber mats. 2021 , 138, 49647	2
519	Development of woven textile electrodes with enhanced moisture-wicking properties. 2021 , 112, 983-995	2

Functional Fibers and Fabrics for Soft Robotics, Wearables, and Human-Robot Interface. <i>Advanced Materials</i> , 2021 , 33, e2002640	94
Construction of carbon nanorods supported hydrothermal carbon and carbon fiber from waste biomass straw for high strength supercapacitor. 2021 , 582, 552-560	16
Utilization of electroless plating to prepare Cu-coated cotton cloth electrode for flexible Li-ion batteries. 2021 , 40, 400-408	5
Fibrous Materials for Flexible Li B Battery. 2021 , 11, 2002580	34
Endowing the sustainable antistatic properties to epoxy-based composites through adding graphene nanoplatelets. 2021 , 281, 124594	6
Washable, colored and textured, carbon nanotube textile yarns. 2021 , 172, 334-344	3
Recent progress in energy storage and conversion of flexible symmetric transducers. 2021 , 9, 753-781	5
CoreBheath Fiber-Based Wearable Strain Sensor with High Stretchability and Sensitivity for Detecting Human Motion. 2021 , 7, 2000865	15
Polymer chemistry underpinning materials for triboelectric nanogenerators (TENGs): Recent trends. 2021 , 142, 110163	12
Fe2O3 nanowire arrays on Ni-coated yarns as excellent electrodes for high performance wearable yarn-supercapacitor. 2021 , 866, 158156	15
Textile Technology for Soft Robotic and Autonomous Garments. 2021 , 31, 2008278	48
Lignin Cellulose Nanofibrils as an Electrochemically Functional Component for High-Performance and Flexible Supercapacitor Electrodes. 2021 , 14, 1057-1067	13
Biomechanical energy harvesting with piezoelectric materials. 2021 , 209-247	2
Textile Composite Electrodes for Flexible Batteries and Supercapacitors: Opportunities and Challenges. 2021 , 11, 2002838	33
Effect of Geometrical Parameters on Piezoresponse of Nanofibrous Wearable Piezoelectric Nanofabrics Under Low Impact Pressure. 2021 , 306, 2000510	7
One dimensional MnV2O6 nanobelts on graphene as outstanding electrode material for high energy density symmetric supercapacitor. 2021 , 47, 9560-9568	9
Flexible, fiber-shaped, quasi-solid-state Zn-polyaniline batteries with methanesulfonic acid-doped aqueous gel electrolyte. 2021 , 35, 739-749	27
Applicability of poly(3,4-ethylenedioxythiophene): poly(styrene sulfonate) impregnated polyurethane nanoweb as a transmission line for smart textiles. 2021 , 91, 1253-1262	2
	Adaterials, 2021, 33, e2002640 Construction of carbon nanorods supported hydrothermal carbon and carbon fiber from waste biomass straw for high strength supercapacitor. 2021, 582, 552-560 Utilization of electroless plating to prepare Cu-coated cotton cloth electrode for flexible Li-ion batteries. 2021, 40, 400-408 Fibrous Materials for Flexible LiB Battery. 2021, 11, 2002580 Endowing the sustainable antistatic properties to epoxy-based composites through adding graphene nanoplatelets. 2021, 281, 124594 Washable, colored and textured, carbon nanotube textile yarns. 2021, 172, 334-344 Recent progress in energy storage and conversion of flexible symmetric transducers. 2021, 9, 753-781 CoreBheath Fiber-Based Wearable Strain Sensor with High Stretchability and Sensitivity for Detecting Human Motion. 2021, 7, 2000865 Polymer chemistry underpinning materials for triboelectric nanogenerators (TENGs): Recent trends. 2021, 142, 110163 Fe2O3 nanowire arrays on Ni-coated yarns as excellent electrodes for high performance wearable yarn-supercapacitor. 2021, 866, 158156 Textile Technology for Soft Robotic and Autonomous Garments. 2021, 31, 2008278 Lignin Cellulose Nanofibrils as an Electrochemically Functional Component for High-Performance and Flexible Supercapacitor Electrodes. 2021, 14, 1057-1067 Biomechanical energy harvesting with piezoelectric materials. 2021, 209-247 Textile Composite Electrodes for Flexible Batteries and Supercapacitors: Opportunities and Challenges. 2021, 11, 2002838 Effect of Geometrical Parameters on Piezoresponse of Nanofibrious Wearable Piezoelectric Nanofabrics Under Low Impact Pressure. 2021, 306, 2000510 One dimensional MnV2O6 nanobelts on graphene as outstanding electrode material for high energy density symmetric supercapacitor. 2021, 47, 9560-9568 Flexible, fiber-shaped, quasi-solid-state Zn-polyaniline batteries with methanesulfonic acid-doped aqueous gel electrolyte. 2021, 35, 739-749 Applicability of poly(3,4-ethylenedioxythiophene): poly(styrene sulfonate) impregnated

500	Strain Engineering in 2D Material-Based Flexible Optoelectronics 2021 , 5, e2000919	26
499	Stretchable Energy Storage Devices: From Materials and Structural Design to Device Assembly. 2021 , 11, 2003308	28
498	Cold-Resistant Nitrogen/Sulfur Dual-Doped Graphene Fiber Supercapacitors with Solar-Thermal Energy Conversion Effect. 2021 , 27, 3473-3482	4
497	Enhanced thermoelectric properties of flexible N-type Ag2Se nanowire/polyvinylidene fluoride composite films synthesized via solution mixing. 2021 , 93, 333-338	8
496	Rapid Fabrication Method for Soft Devices Using Off-the-Shelf Conductive and Dielectric Acrylic Elastomers. 2021 , 3, 2000173	2
495	Effects of Domain Wall Proximity on Nanoscale Polarization Switching in Relaxor-Ferroelectric Single Crystals. 2021 , 218, 2000506	O
494	Application of Memristors in Hardware Security: A Current State-of-the-Art Technology. 2021 , 3, 2000127	3
493	Adhesive and tough hydrogels promoted by quaternary chitosan for strain sensor. 2021 , 254, 117298	22
492	Strong, conductive aramid fiber functionalized by graphene. 2021 , 140, 106161	4
491	Light-colored conductive fabric coatings using uniform ATO@TiO2 whiskers. 2021 , 56, 351-363	7
490	Tissue-Emulating Phantoms for In Vitro Experimentation at Radio Frequencies: Exploring Characteristics, Fabrication, and Testing Methods. 2021 , 0-0	2
489	Inkjet Printing of Perovskites for Breaking Performancellemperature Tradeoffs in Fabric-Based Thermistors. 2021 , 31, 2006273	5
488	Flexible Electrochemical Biosensors for Health Monitoring. 2021 , 3, 53-67	27
487	Strain-Controlled Spin Wave Excitation and Gilbert Damping in Flexible Co2FeSi Films Activated by Femtosecond Laser Pulse. 2021 , 31, 2007211	2
486	Interfacial modulation achieving a flexible anode of FeP/N-doped C@carbon cloth with a robust structure for high areal capacity lithium storage.	2
485	Smart Fibrous Structures Produced by Electrospinning Using the Combined Effect of PCL/Graphene Nanoplatelets. 2021 , 11, 1124	6
484	Synergetic Effect of NiP and MXene Enhances Catalytic Activity in the Hydrogen Evolution Reaction. 2021 , 60, 1604-1611	19
483	Recent advances in MXene-based force sensors: a mini-review 2021 , 11, 19169-19184	6

482	Influence of VGCF Concentration on Properties of Biodegradable Fibers Based on Poly (Lactide Acid). 2021 ,	1
481	Wholly Biobased, Highly Stretchable, Hydrophobic, and Self-healing Thermoplastic Elastomer. 2021 , 13, 6720-6730	17
480	High performance fiber-shaped supercapacitors based on core@hell fiber electrodes with adjustable surface wrinkles and robust interfaces. 2021 , 9, 16852-16859	2
479	Beyond homogeneous dispersion: oriented conductive fillers for high nanocomposites. 2021 , 8, 3009-3042	3
478	Design and Manufacture of 3D-Printed Batteries. 2021 , 5, 89-114	30
477	Energy Harvesting and Storage with Soft and Stretchable Materials. <i>Advanced Materials</i> , 2021 , 33, e2004 <u>8</u> 32	34
476	Fabrication of Stretchable and Transparent CoreBhell Polymeric Nanofibers Using Coaxial Electrospinning and Their Application to Phototransistors. 2021 , 7, 2001000	4
475	Advanced applications of green materials in bioelectronics applications. 2021 , 631-661	
474	Fiber-Based Sensors and Energy Systems for Wearable Electronics. 2021 , 11, 531	8
473	Thermal deposition method for pl patterning of carbon nanotube sheets for planar-type thermoelectric generator. 2021 , 9, 12188-12195	2
472	Reduced graphene oxide/g-C3N4 modified carbon fibers for high performance fiber supercapacitors. 2021 , 45, 923-929	5
471	Electrospun nanofiber fabric: an efficient, breathable and wearable moist-electric generator. 2021 , 9, 7085-7093	27
470	A review on electrospun magnetic nanomaterials: methods, properties and applications. 2021 , 9, 9042-9082	11
469	Interfacial Design and Assembly for Flexible Energy Electrodes with Highly Efficient Energy Harvesting, Conversion, and Storage. 2021 , 11, 2002969	7
468	High-performance & thermally stable n-type polymer thermoelectrics based on a benzyl viologen radical cation-doped ladder-type conjugated polymer. 2021 , 9, 11787-11793	11
467	Effective ion pathways and 3D conductive carbon networks in bentonite host enable stable and high-rate lithiumBulfur batteries. 2021 , 10, 20-33	10
466	Hybrid material design issues and challenges for materials functionality for microdevices. 2021 , 1-17	
465	Stitched Ground Planes for Textile Antenna Application: An Experimental Study. 2021 , 09, 11-25	Ο

464	Advanced fibrous materials for wearable energy harvesting applications. 2021, 93-109	1
463	Highly Breathable and Stretchable Strain Sensors with Insensitive Response to Pressure and Bending. 2021 , 31, 2007622	34
462	Self-Healing Thin-Film Transistor Circuits on Flexible Substrates. 2021 , 7, 2001023	6
461	The Interface between Nanoenergy and Self-Powered Electronics. 2021 , 21,	1
460	Pathways of Developing High-Energy-Density Flexible Lithium Batteries. <i>Advanced Materials</i> , 2021 , 33, e2004419	30
459	Solid Polymer Electrolytes with High Conductivity and Transference Number of Li Ions for Li-Based Rechargeable Batteries. 2021 , 8, 2003675	35
458	Comprehensive performance characterization of conductive fabric made of reduced graphene oxide (rGO). 2021 , 138, 50524	2
457	Colloidal Photonic Crystals for Biomedical Applications. 2021 , 2, 2000110	16
456	Strain-sensing fiber with a corellheath structure based on carbon black/polyurethane composites for smart textiles. 2021 , 91, 1907-1923	2
455	Electroluminescent Fabric Woven by Ultrastretchable Fibers for Arbitrarily Controllable Pattern Display. 2021 , 13, 11260-11267	8
454	Bright-Multicolor, Highly Efficient, and Addressable Phosphorescent Organic Light-Emitting Fibers: Toward Wearable Textile Information Displays. 2021 , 31, 2009336	12
453	From Fiber to Fabric: Progress Towards Photovoltaic Energy Textile. 2021 , 3, 76-106	5
452	Design of highly ordered hierarchical catalytic nanostructures as high-flexibility counter electrodes for fiber-shaped dye-sensitized solar cells. 2021 , 118, 053102	3
451	Enhancing piezoelectricity of poly(vinylidene fluoride) nano-wrapped yarns with an innovative yarn electrospinning technique. 2021 , 70, 851-859	6
450	Hybrid Triboelectric Nanogenerators: From Energy Complementation to Integration. 2021, 2021, 9143762	10
449	Magnetosensitive E-Skins for Interactive Devices. 2021 , 31, 2007788	11
448	Broadband optical absorption enhancement in hybrid organic[horganic perovskite metasurfaces. 2021 , 11, 025107	4
447	High-performance wire-shaped aluminum ion batteries based on continuous graphene fiber cathodes. 2021 , 488, 229460	9

446	Flexible pressure sensors with microstructures. 2021 , 2, 1874	1
445	Construction of porous polymer films on rGO coated cotton fabric for self-powered pressure sensors in human motion monitoring. 2021 , 28, 4439-4453	3
444	Stretchable MXene/Thermoplastic Polyurethanes based Strain Sensor Fabricated Using a Combined Electrospinning and Electrostatic Spray Deposition Technique. 2021 , 12,	6
443	Rib Stitch Knitted Extremely Stretchable and Washable Textile Triboelectric Nanogenerator. 2021 , 6, 2000983	6
442	Implantable Biosupercapacitor Inspired by the Cellular Redox System. 2021 , 133, 10657-10661	O
441	3D printing of high-performance micro-supercapacitors with patterned exfoliated graphene/carbon nanotube/silver nanowire electrodes. 2021 , 64, 1065-1073	9
440	Biaxial Inflation Stretch Test for Flexible Electronics. 2021 , 23, 2001503	O
439	Metal-Textile Laser Welding for Wearable Sensors Applications. 2021 , 7, 2001238	6
438	Highly sensitive coated cotton thread for applications in soft circuit. 2021 , 32, 10880-10889	1
437	Recent progress in the fabrication of graphene fibers and their composites for applications of monitoring human activities. 2021 , 22, 100953	7
436	Conductive cotton fabric using laser pre-treatment and electroless plating. 1-11	1
435	Elastic Multifunctional LiquidMetal Fibers for Harvesting Mechanical and Electromagnetic Energy and as Self-Powered Sensors. 2021 , 11, 2100411	36
434	Learning human@nvironment interactions using conformal tactile textiles. 2021 , 4, 193-201	45
433	Visualising the knowledge structure and evolution of wearable device research. 2021, 45, 207-222	2
432	Implantable Biosupercapacitor Inspired by the Cellular Redox System. 2021 , 60, 10563-10567	1
431	Recent advances in functional fiber electronics. 2021 , 1, 105-126	36
430	TRBOELEKTRK NANOJENERATRLER (IE ENERJIHASADI: TEORK KKEN, ALIMA PRENSBIVE Alima modlari. 2021 , 9, 232-249	
429	A Biofuel-Cell-Based Energy Harvester With 86% Peak Efficiency and 0.25-V Minimum Input Voltage Using Source-Adaptive MPPT. 2021 , 56, 715-728	8

428	Reconfigurable thin-film transistors based on a parallel array of Si-nanowires. 2021 , 129, 124504		1
427	A Study of All-solid-state Planar Micro-supercapacitors Using Printable MoS2 Inks. 2021 , 50, 452-455		2
426	Fiber-junction design for directional bending sensors. 2021 , 5,		2
425	The Influence Mechanism of Temperature and Storage Period on Polarization Properties of Poly (Vinylidene Fluoride-Trifluoroethylene) Ultrathin Films. 2021 , 11,		2
424	Highly stretchable conductors comprising composites of silver nanowires and silver flakes. 2021 , 23, 1		4
423	Strong and Highly Conductive Carbon Nanotube Fibers as Conducting Wires for Wearable Electronics. 2021 , 4, 3833-3842		5
422	Mechanics of nonbuckling interconnects with prestrain for stretchable electronics. 2021 , 42, 689-702		0
421	A universal method towards conductive textile for flexible batteries with superior softness. 2021 , 36, 272-278		9
420	Thermal and mechanical characterization of high performance polymer fabrics for applications in wearable devices. 2021 , 11, 8705		4
419	Polyvinylpyrrolidone Assisted Preparation of Highly Conductive, Antioxidation, and Durable Nanofiber Composite with an Extremely High Electromagnetic Interference Shielding Effectiveness. 2021 , 13, 21865-21875		11
418	Electrical and Capacitive Response of Hydrogel Solid-Like Electrolytes for Supercapacitors. 2021 , 13,		4
417	25 Years of Light-Emitting Electrochemical Cells: A Flexible and Stretchable Perspective. <i>Advanced Materials</i> , 2021 , 33, e2006863	24	18
416	Conjugated Polymer for Implantable Electronics toward Clinical Application. 2021 , 10, e2001916		11
415	Preparation of Core/Shell Electrically Conductive Fibers by Efficient Coating Carbon Nanotubes on Polyester. 2021 , 3, 180-191		3
414	Prospective of combustion method for preparation of nanomaterials: A challenge. 2021 , 267, 115054		14
413	Pencil-on-Paper-Based Touchpad for Ecofriendly and Reusable HumanMachine Interface. 2021 , 5, 1-4		2
412	Flexible Wearable Sensors for Cardiovascular Health Monitoring. 2021, 10, e2100116		24
411	Dendritic Network Implementable Organic Neurofiber Transistors with Enhanced Memory Cyclic Endurance for Spatiotemporal Iterative Learning. <i>Advanced Materials</i> , 2021 , 33, e2100475	24	12

Scale production of conductive cotton yarns by sizing process and its conductive mechanism. **2021**, 3, 1

409	Ultrastretchable Thermo- and Mechanochromic Fiber with Healable Metallic Conductivity. 2021 , 7, 2100146	7
408	Ultrastretchable and Washable Conductive Microtextiles by Coassembly of Silver Nanowires and Elastomeric Microfibers for Epidermal Human Machine Interfaces. 2021 , 3, 912-920	20
407	Scalable Fabrication of Kevlar/TiCT MXene Intelligent Wearable Fabrics with Multiple Sensory Capabilities. 2021 , 15, 8676-8685	32
406	1/f Noise Characterization of Bilayer MoS2 Field-Effect Transistors on Paper with Inkjet-Printed Contacts and hBN Dielectrics. 2021 , 7, 2100283	1
405	Molecular simulation-guided and physics-informed mechanistic modeling of multifunctional polymers. 2021 , 37, 725-745	1
404	Buckled Fiber Conductors with Resistance Stability under Strain. 2021 , 3, 149-159	7
403	Permeable and washable electronics based on polyamide fibrous membrane for wearable applications. 2021 , 207, 108729	6
402	Enhancing the Solubility of Semiconducting Polymers in Eco-Friendly Solvents with Carbohydrate-Containing Side Chains. 2021 , 13, 25175-25185	2
401	Activated carbon fiber yarns with birnessite-type MnO2 and oxygen-functional groups for high-performance flexible asymmetric supercapacitors. 2021 , 115, 108371	5
400	Advances in Electrospun Fiber-Based Flexible Nanogenerators for Wearable Applications. 2021 , 306, 2100143	11
399	New perspectives on Graphene/Graphene oxide based polymer nanocomposites for corrosion applications: The relevance of the Graphene/Polymer barrier coatings. 2021 , 154, 106215	14
398	Reviews on Machine Learning Approaches for Process Optimization in Noncontact Direct Ink Writing. 2021 , 13, 53323-53345	7
397	Flexible, Freestanding, Ultrasensitive, and Iontronic Tactile Sensing Textile. 2021 , 3, 2195-2202	8
396	Stretchable wideband dipole antennas and rectennas for RF energy harvesting. 2021 , 18, 100377-100377	17
395	Sensing mechanism of a carbon nanocomposite-printed fabric as a strain sensor. 2021 , 144, 106350	6
394	Metallisation of Textiles and Protection of Conductive Layers: An Overview of Application Techniques. 2021 , 21,	6
393	Light-weight strain sensor based on carbon nanotube/epoxy composite yarn. 2021 , 56, 13156-13164	2

392	Screen-printing of microfibrillated cellulose for an improved moisture management, strength and abrasion resistant properties of flame-resistant fabrics. 2021 , 28, 6663	2
391	Differentiation of Multiple Mechanical Stimuli by a Flexible Sensor Using a Dual-Interdigital-Electrode Layout for Bodily Kinesthetic Identification. 2021 , 13, 26394-26403	4
390	Abrasion Resistant/Waterproof Stretchable Triboelectric Yarns Based on Fermat Spirals. <i>Advanced Materials</i> , 2021 , 33, e2100782	20
389	Piezo-Resistive Properties of Bio-Based Sensor Yarn Made with Sisal Fibre. 2021 , 21,	1
388	Body-coupled power transmission and energy harvesting. 2021 , 4, 530-538	14
387	Characterization of high-sensitive thermoplastic strain gauge sensor as wearable tool for monitoring spacesuit movement impediment. 2021 ,	
386	Nanomaterials-patterned flexible electrodes for wearable health monitoring: a review. 2021, 56, 1-43	17
385	A novel biodegradable porous graphitic carbon nitride/poly(lactic acid) fiber photocatalyst for efficient elimination of carbamazepine under solar irradiation. 2021 , 414, 128845	10
384	Electronic fibers and textiles: Recent progress and perspective. 2021 , 24, 102716	14
383	Highly electroconductive lightweight graphene fibers with high current-carrying capacity fabricated via sequential continuous electrothermal annealing. 2021 , 414, 128803	2
382	Flexible textiles with polypyrrole deposited phase change microcapsules for efficient photothermal energy conversion and storage. 2021 , 224, 110985	15
381	A Multisensory and Support Vector Machine Based Teleoperate Robotic Arm. 2021,	
380	Penciling a Flexible and Eco-friendly Touchpad on Paper for Disposable User Interface. 2021,	О
379	Smart materials and devices for electronic textiles. 2021 , 46, 488-490	1
378	New high mechanically flexible and bendable nanocomposite Ag@NCDots/PEDOT:PSS/PVA films with high thermoelectric power performance and generator. 2021 , 226, 123792	7
377	Progress on Self-Powered Wearable and Implantable Systems Driven by Nanogenerators. 2021 , 12,	5
376	Influence of Calcium Silicate and Hydrophobic Agent Coatings on Thermal, Water Barrier, Mechanical and Biodegradation Properties of Cellulose. 2021 , 11,	0
375	Microwave-assisted decoration of cotton fabrics with Nickel-Cobalt sulfide as a wearable glucose sensing platform. 2021 , 890, 115244	11

374	Extraction of cellulose to progress in cellulosic nanocomposites for their potential applications in supercapacitors and energy storage devices. 2021 , 56, 14448-14486	5
373	Recent Progress of Functional Fiber and Textile Triboelectric Nanogenerators: Towards Electricity Power Generation and Intelligent Sensing. 1	14
372	Electrospun PEO/PEDOT:PSS Nanofibers for Wearable Physiological Flex Sensors. 2021, 21,	1
371	Silica Nanoparticle Deposition on Natural Fibrous Substrates: Kinetic and Thermodynamic Studies. 2021 , 60, 9500-9507	3
370	Wet-spinning of ionic liquid@elastomer coaxial fibers with high stretchability and wide temperature resistance for strain sensors. 2021 , 25, 100693	9
369	Organic heterojunction transistors for mechanically flexible multivalued logic circuits. 2021 , 14, 081004	11
368	DNA-inspired, highly packed supercoil battery for ultra-high stretchability and capacity. 2021 , 85, 106034	2
367	Inkjet Printed Textile Force Sensitive Resistors for Wearable and Healthcare Devices. 2021 , 10, e2100893	8
366	(3-Mercaptopropyl)triethoxysilane-Modified Reduced Graphene Oxide-Modified Polyurethane Yarn Enhanced by Epoxy/Thiol Reactions for Strain Sensors. 2021 , 13, 34865-34876	О
365	Carbon/Silicone Nanocomposite-Enabled Soft Pressure Sensors with a Liquid-Filled Cell Structure Design for Low Pressure Measurement. 2021 , 21,	
364	An Ultrastretchable Electrical Switch Fiber with a Magnetic Liquid Metal Core for Remote Magnetic Actuation. 2021 , 13,	4
363	Humidity-modulated properties of hydrogel polymer electrolytes for flexible supercapacitors. 2021 , 499, 229962	10
362	PN junction-based ZnO wearable textile nanogenerator for biomechanical energy harvesting. 2021 , 85, 105938	8
361	Fiber-Based Thermoelectric Materials and Devices for Wearable Electronics. 2021 , 12,	O
360	Photo-Patternable, High-Speed Electrospun Ultrafine Fibers Fabricated by Intrinsically Negative Photosensitive Polyimide. 2021 , 6, 18458-18464	0
359	The adverse effects of injected functionalized multi-walled carbon nanotube (f-MWCNT) on in vivo neurosecretory brain cells of Jamaican field cricket, Gryllus assimilis. 2021 , 28, 66968-66977	O
358	Recent progress for silver nanowires conducting film for flexible electronics. 2021, 11, 1-19	22
357	Novel Approach to Introduce Alkyl Chains into PEDOT:PSS and Its Effect on the Performance as a Flexible Electrode. 2021 , 11, 6605	1

356	All-solid-state wire-shaped asymmetric supercapacitor based on binder-free CuO nanowires on copper wire and PPy on carbon fiber electrodes. 2021 , 893, 115323	10
355	Inkjet Printing of Perovskite Nanosheets for Microcapacitors. 2021 , 7, 2100402	4
354	Recent Advances in Fiber-Shaped Electronic Devices for Wearable Applications. 2021, 11, 6131	6
353	Preparationof fabric-like transparent electrodefor flexible perovskite solar cell. 2021 , 729, 138698	2
352	A Review of Conductive Carbon Materials for 3D Printing: Materials, Technologies, Properties, and Applications. 2021 , 14,	8
351	All-Organic Flexible Ferroelectret Nanogenerator with Fabric-Based Electrodes for Self-Powered Body Area Networks. 2021 , 17, e2103161	4
350	Rational design of ZIF-8 assimilated hierarchical porous carbon nanofibers as binder-free electrodes for supercapacitors. 2021 , 895, 115471	5
349	Highly Stretchable and Durable Electrospinning Polyurethane Nanofiber Composite Yarn for Electronic Devices. 1	
348	Multiphoton-induced polymerization in the fabrication of optical waveguides in polydimethylsiloxane. 2021 ,	
347	Hierarchical PVDF-HFP/ZnO composite nanofiberBased highly sensitive piezoelectric sensor for wireless workout monitoring. 1	22
346	A non-printed integrated-circuit textile for wireless theranostics. 2021 , 12, 4876	23
345	Biomimetic chameleon soft robot with artificial crypsis and disruptive coloration skin. 2021 , 12, 4658	21
344	Double Network Hydrogel Sensors with High Sensitivity in Large Strain Range. 2100486	1
343	Cascade Amplification Effect for Mechanical Stimuli Sensors by Designing the Current Path Through Carbon Fiber Beams. 2021 , 21, 17410-17418	O
342	Self-Standing and Flexible Thermoelectric Nanofiber Mat of an n-Type Conjugated Polymer. 2021 , 3, 3641-3647	2
341	Recent Advances in Flexible Perovskite Light-Emitting Diodes. 2021 , 8, 2100441	5
340	Design and Construction of Deformable Heaters: Materials, Structure, and Applications. 2100452	7
339	Fiber supercapacitor using epoxy-based gel polymer electrolyte with high ionic conductivity and mechanical flexibility. 2021 , 3, 035005	О

338~ High Reversible Strain in Nanotwinned Metals. **2021**, 13, 46088-46096

337	Wearable yarn supercapacitors coated with twisted PPy@GO nanosheets and PPy@PAN-GO nanofibres. 2021 , 56, 18147-18161	4
336	Reconstituting electrical conduction in soft tissue: the path to replace the ablationist. 2021 , 23, 1892-1902	
335	Porous manganese dioxide nanosheets on modified graphite felt for cathodes in high-capacity flexible Zinc-MnO2 batteries. 2021 , 191, 110353	3
334	Quantitative Evaluation of Pseudo Strain Signals Caused by Yarn Structural Deformation. 1	3
333	A safeguarding and high temperature tolerant organogel electrolyte for flexible solid-state supercapacitors. 2021 , 505, 230083	3
332	Fiber-Based Electret Nanogenerator with a Semisupported Structure for Wearable Electronics. 2021 , 13, 46840-46847	5
331	Fabric based printed-distributed battery for wearable e-textiles: a review. 2021 , 22, 772-793	3
330	Synthesis and plasma treatment of nitrogen-doped graphene fibers for high-performance supercapacitors. 2021 , 48, 2058-2058	3
329	Crack Suppression in Conductive Film by Amyloid-Like Protein Aggregation toward Flexible Device. <i>Advanced Materials</i> , 2021 , 33, e2104187	4
328	Advances in lateral copper electroplated metallic tracksproduction and applications by using hydrogen evolution-assisted electroplating. 2021 , 6, 654-658	1
327	Flexible electrospun carbon nanofibers/silicone composite films for electromagnetic interference shielding, electrothermal and photothermal applications. 2021 , 420, 129826	10
326	Self-adhesive and contractile silk fibroin/graphene nano-ionotronic skin for strain sensing of irregular surfaces. 2021 , 32,	1
325	Advances in micro lithium-ion batteries for on-chip and wearable applications. 2021 , 31, 114002	2
324	Manipulation of microwave magnetism in flexible La0.7Sr0.3MnO3 film by deformable ionic gel gating. 2021 , 563, 150074	1
323	Flexible stimuli-responsive materials for smart personal protective equipment. 2021 , 146, 100629	4
322	Mild synthesis of superadhesive hydrogel electrolyte with low interfacial resistance and enhanced ionic conductivity for flexible zinc ion battery. 2021 , 600, 586-593	7
321	Triboelectric-optical responsive cholesteric liquid crystals for self-powered smart window, E-paper display and optical switch. 2021 , 66, 1986-1993	12

320	Wearable self-powered human motion sensors based on highly stretchable quasi-solid state hydrogel. 2021 , 88, 106272	10
319	Human body-based self-powered wearable electronics for promoting wound healing driven by biomechanical motions. 2021 , 89, 106465	19
318	Acrylate-based nanocomposite zirconium-dispersed polymer dielectric for flexible oxide thin-film transistors with a curvature radius of 2 mm. 2021 , 98, 106302	2
317	Highly stretchable and durable fibrous strain sensor with growth ring-like spiral structure for wearable electronics. 2021 , 225, 109275	5
316	Self-healable organic light-emitting devices based on electronic textiles. 2021, 89, 106481	1
315	Integrated hierarchical macrostructures of flexible basalt fiber composites with tunable electromagnetic interference (EMI) shielding and rapid electrothermal response. 2021 , 224, 109193	12
314	Fabrication of ultra-high working range strain sensor using carboxyl CNTs coated electrospun TPU assisted with dopamine. 2021 , 566, 150705	14
313	Enhanced flexible polypropylene fabric with silver/magnetic carbon nanotubes coatings for electromagnetic interference shielding. 2021 , 568, 150845	4
312	Monolithic digital patterning of polyimide by laser-induced pyrolytic jetting. 2022 , 428, 131050	3
311	Rational design and evaluation of UV curable nano-silver ink applied in highly conductive textile-based electrodes and flexible silver-zinc batteries. 2022 , 101, 294-307	1
310	Precision cutting of PDMS film with UV-nanosecond laser based on heat generation-diffusion regulation. 2022 , 145, 107462	3
309	The fabrication of a graphene and conductive polymer nanocomposite-coated highly flexible and washable woven thermoelectric nanogenerator. 2021 , 2, 3695-3704	6
308	Aligned wave-like elastomer fibers with robust conductive layers electroless deposition for stretchable electrode applications. 2021 , 9, 8801-8808	1
307	A Soft Wearable and Fully-Textile Piezoresistive Sensor for Plantar Pressure Capturing. 2021 , 12,	8
306	Fiber-based thermoelectrics for solid, portable, and wearable electronics. 2021 , 14, 729-764	65
305	Super wear-resistant and conductive cotton fabrics based on sliver nanowires. 152808372098200	3
304	Aligned carbon nanotube fibers for fiber-shaped solar cells, supercapacitors and batteries 2021 , 11, 6628-6643	2
303	Fast and durable anodes for sodium-/potassium-ion hybrid capacitors: tailoring self-adaptive nanocages inside hybrid fibers with high alignment. 2021 , 9, 13986-13995	2

302	High-performance and thermostable wire supercapacitors using mesoporous activated graphene deposited on continuous multilayer graphene. 2021 , 9, 4800-4809	6
301	Polymer-assisted fully recyclable flexible sensors. 2021 , 3, e12083	14
300	MXene derivatives: synthesis and applications in energy convention and storage 2021, 11, 16065-16082	9
299	Textile triboelectric nanogenerators for self-powered biomonitoring. 2021 , 9, 19149-19178	28
298	Hybrid Smart Fiber with Spontaneous Self-Charging Mechanism for Sustainable Wearable Electronics. 2020 , 30, 1908479	31
297	A Highly Sensitive Capacitive-Based Soft Pressure Sensor Based on a Conductive Fabric and a Microporous Dielectric Layer. 2018 , 3, 1700237	154
296	Textile Based Sensing System for Lower Limb Motion Monitoring. 2019 , 395-399	2
295	Recent Trends in Supercapacitor Electrode Materials and Devices. 2020 , 435-461	4
294	Wire-Shaped 3D-Hybrid Supercapacitors as Substitutes for Batteries. 2020 , 12, 28	13
293	Laminate composite-based highly durable and flexible supercapacitors for wearable energy storage. 2020 , 29, 101460	7
292	Cost-effective and strongly integrated fabric-based wearable piezoelectric energy harvester. 2020 , 75, 104992	22
291	Machine-Washable Conductive Silk Yarns with a Composite Coating of Ag Nanowires and PEDOT:PSS. 2020 , 12, 27537-27544	42
2 90	An Ultra-Long-Life Flexible Lithium-Sulfur Battery with Lithium Cloth Anode and Polysulfone-Functionalized Separator. 2021 , 15, 1358-1369	19
289	Freestanding single-crystal Ni0.5Zn0.5Fe2O4 ferrite membranes with controllable enhanced magnetic properties for flexible RF/microwave applications. 2020 , 8, 17099-17106	3
288	Reconfigurable metasurfaces with mechanical actuations: towards flexible and tunable photonic devices. 2021 , 23, 013001	8
287	Carbon nanotube woven textile photodetector. 2018 , 2,	22
286	Inflight fiber printing toward array and 3D optoelectronic and sensing architectures. 2020, 6,	29
285	Double-side operable perovskite photodetector using Cu/CuO as a hole transport layer. 2019 , 27, 24900-249	136

284	Super Elastic Optical Fibers Sensors. 2018,	1
283	Photoinitiator-free multi-photon fabrication of compact optical waveguides in polydimethylsiloxane. 2019 , 9, 128	15
282	Stretchable Optical Fibers via Thermal Drawing. 2018,	2
281	Tunable nanophotonics enabled by chalcogenide phase-change materials. 2020 , 9, 1189-1241	134
2 80	Mechanism of Electrical Conductivity in Metallic Fiber-Based Yarns. 2020 , 20, 63-68	5
279	Fabric-Based Triboelectric Nanogenerators. 2019 , 2019, 1091632	21
278	Microfluidic Generation of Microsprings with Ionic Liquid Encapsulation for Flexible Electronics. 2019 , 2019, 6906275	47
277	The Classification and Investigation of Smart Textile Sensors for Wearable Vital Signs Monitoring. 2019 , 21, 697-707	6
276	Flexible and Wearable Hybrid RF and Solar Energy Harvesting System. 2021 , 1-1	5
275	Research of a Novel Ag Temperature Sensor Based on Fabric Substrate Fabricated by Magnetron Sputtering. 2021 , 14,	2
274	Tough and electrically conductive Ti3C2T MXeneBased coreBhell fibers for highperformance electromagnetic interference shielding and heating application. 2021 , 133074	10
273	Highly Durable and Stretchable Ti3C2Tx/PPy-Fabric-Based Strain Sensor for Human-Motion Detection. 2100675	4
272	Development of Conductive Hydrogels for Fabricating Flexible Strain Sensors. 2021 , e2101518	25
271	A Transferrable, Adaptable, Free-Standing, and Water-Resistant Hyperbolic Metamaterial. 2021 , 13, 49224-49	92⊋1
270	Highly Self-Healable Write-Once-Read-Many-Times Devices Based on Polyvinylalcohol-Imidazole Modified Graphene Nanocomposites. 2021 , 17, e2102772	1
269	A review of textile-based electrodes developed for electrostimulation. 004051752110519	O
268	Smart Chemical Engineering-based Lightweight and Miniaturized Attachable Systems for Advanced Drug Delivery and Diagnostics. <i>Advanced Materials</i> , 2021 , e2106701	3
267	Piezo-supercapacitors: A new paradigm of self-powered wellbeing and biomedical devices. 2021 , 90, 106607	2

266 Fabric Substrates and Interconnectors for Three-Dimensional Surfaces. **2014**, 1-23

265	Mechanisms for Fiber-Based Nanogenerators. 2015 , 1-20	
264	Fiber-Based Wearable Electronic Circuits and Systems. 2015 , 255-291	
263	Fabric Substrates and Interconnectors for Three-Dimensional Surfaces. 2015 , 549-575	
262	Nanoparticles-Based Flexible Wearable Sensors for Health Monitoring Applications. 2019, 245-284	
261	PDMS-ZNO Composite Textile Ferroelectret For Human Body Energy Harvesting. 2019 ,	O
260	Physico-chemical properties and application of the conductive organic polymer poly-3,4 ethylenedioxythiophene-polystyrol sulfona. 2019 , 11(26), 414-435	1
259	Green Synthesis of Metal Nanoparticles for Electronic Textiles. 2020 , 81-97	2
258	High-performance fiber-shaped lithium-ion batteries. 2020 , 92, 767-772	О
257	Enhanced output of ZnO nanosheet-based piezoelectric nanogenerator with a novel device structure.	2
256	Permeable Conductors for Wearable and On-Skin Electronics. 2100135	12
255	Enabling Distributed Intelligence with Ferroelectric Multifunctionalities. 2021 , 9, e2103842	3
254	Highly Reliable Yarn-Type Supercapacitor Using Conductive Silk Yarns with Multilayered Active Materials. 1-12	3
253	Recent Progress in Intelligent Wearable Sensors for Health Monitoring and Wound Healing Based on Biofluids. 2021 , 9, 765987	3
252	Nanostructure Engineering of Graphitic Carbon Nitride for Electrochemical Applications. 2021,	4
251	Electrical Activation of Thermo-responsive Textiles. 2020 , 65-85	
250	Advanced Chemical Applications of Modified Cotton. 2020 , 501-527	1
249	Advanced functional materials and devices for energy conversion and storage applications. 2022 , 43-96	1

248	Electronic Textiles (E-Textiles): Fabric Sensors and Material-Integrated Wearable Intelligent Systems. 2021 ,	O
247	SMART HEALTHCARE USING INTERNET OF THINGS (IoT) FOR REMOTE DIAGNOSIS OF COVID-19 PATIENTS. 2020 , 15, 15	1
246	In-situ construction of high-modulus nanospheres on elastomer fibers for linearity-tunable strain sensing. 2021 , 431, 133488	2
245	Rational Design of Li-Wicking Hosts for Ultrafast Fabrication of Flexible and Stable Lithium Metal Anodes. 2021 , e2105308	6
244	Study on Folding-Reliability of Wearable Biometric Band. 2020,	
243	Towards Wearable Electronic Devices: Piezoelectric Glove Design and Test. 2020,	1
242	Bio-inspired structural colors and their applications. 2021,	10
241	Flexible one-dimensional Zn-based electrochemical energy storage devices: recent progress and future perspectives.	O
240	Triboelectric sensor array for internet of things based smart traffic monitoring and management system. 2022 , 92, 106757	9
239	A Flexible and Wavelength-Designable Polymer Light-Emitting Diode Employing Sandwich-Encapsulation for Wearable Skin Rejuvenation Photomedicine. 2100856	1
238	MXene-coated multi-response conductive film based on layer-by-layer assembly strategy for electromagnetic interference shielding. 2021 , 15, 6011-6024	1
237	Nano-on-micro approach for fabricating ternary metal oxy-hydroxideBased flexible supercapacitors. 152808372110523	
236	Recent advances on quasi-solid-state electrolytes for supercapacitors. 2021 , 67, 697-697	6
235	An Ultra-Sensitive Multi-Functional Optical Micro/Nanofiber Based on Stretchable Encapsulation. 2021 , 21,	1
234	Progress of Wearable and Flexible Electrochemical Biosensors With the Aid of Conductive Nanomaterials. 2021 , 9, 761020	1
233	Soft Actuators and Robotic Devices for Rehabilitation and Assistance. 2100140	5
232	Soft fibers with magnetoelasticity for wearable electronics. 2021 , 12, 6755	37
231	From Mesoscopic Functionalization of Silk Fibroin to Smart Fiber Devices for Textile Electronics and Photonics. 2021 , e2103981	7

230	Emerging Washable Textronics for Imminent E-Waste Mitigation: Strategies, Reliability, and Perspective.	Ο
229	Vapor-Phase Polymerization of PEDOT for Wearable Fabric Pressure Sensors. 2022 , 51, 1128	Ο
228	Arbitrary-shape-adaptable strain sensor array with optimized circuit layout via direct-ink-writing: Scalable design and hierarchical printing. 2022 , 214, 110388	1
227	Geometrically versatile triboelectric yarn-based harvesters via carbon nanotubes-elastomer composites. 2022 , 219, 109247	2
226	Free-standing and consecutive ZnSe@carbon nanofibers architectures as ultra-long lifespan anode for flexible lithium-ion batteries. 2022 , 94, 106909	2
225	Paper-based flexible devices for energy harvesting, conversion and storage applications: A review. 2022 , 94, 106927	4
224	Design of Fe-Rich, High-Conductivity Lignin Hydrogels for Supercapacitor and Sensor Applications 2022 ,	4
223	A New Class of Electronic Devices Based on Flexible Porous Substrates 2022 , e2105084	5
222	Functionalization of Fiber Devices: Materials, Preparations and Applications. 1	2
221	Shear-flow-induced graphene coating microfibers from microfluidic spinning 2022 , 3, 100209	3
220	Structural design and mechanism analysis of hierarchical porous carbon fibers for advanced energy and environmental applications. 2021 , 10, 10-49	1
219	CNT/Graphite/SBS Conductive Fibers for Strain Sensing in Wearable Telerehabilitation Devices 2022 , 22,	2
218	Ubiquitous clean and sustainable energy-driven self-rechargeable batteries realized by and used in organic electronics. 2022 , 10, 388-412	1
217	Development in liquid crystal microcapsules: fabrication, optimization and applications. 2022 , 10, 413-432	5
216	Novel flexible piezoelectric-conductive Janus nanofibers integrated membrane with enhanced pressure sensing performance. 52180	1
215	Recent advances in flexible and wearable sensors for monitoring chemical molecules 2022,	6
214	Stretchable, Environment-Stable, and Knittable Ionic Conducting Fibers Based on Metallogels for Wearable Wide-Range and Durable Strain Sensors 2022 ,	2
213	Enhanced Electromechanical Resilience and Mechanism of the Composites-coated Fabric Sensors with Crack-induced Conductive Network for Wearable Applications.	

212	Development of stretchable electrodes for wearables using vacuum thermal pressure. 1-10	1
211	Thermo-spun reaction encapsulation fabrication of environment-stable and knittable fibrous ionic conductors with large elasticity and high fatigue resistance. 2022 , 435, 134826	1
210	ReviewlAn Overview on Supercapacitors and Its Applications.	2
209	PVA:Nano-eggshell microcomposite as an energy storage material for supercapacitors. 2022 , 33, 6496	O
208	Tuning Interfacial Thermal Conductance Across Metal Drganic Semiconductor Interfaces by Mixing Self-Assembled Monolayers.	1
207	Stretchable Thermoelectrics: Strategies, Performances, and Applications. 2022 , 32, 2109790	4
206	Electronic Textiles for Wearable Point-of-Care Systems 2021,	50
205	Construction of an Electrical Conductor, Strain Sensor, Electrical Connection and Cycle Switch Using Conductive Graphite Cotton Fabrics.	
204	Smart- Textile Strain Sensor for Human Joint Monitoring.	
203	Recent advances of nanomaterial sensor for point-of care diagnostics applications and research. 2022 , 181-202	
202	Surface microstructural engineering of silicone elastomers for high performance adhesive surface-enabled mechanical energy harvesters.	0
201	Stretchable, breathable, and highly sensitive capacitive and self-powered electronic skin based on core-shell nanofibers 2022 ,	1
200	Application and Functionalization of Graphene Oxide on Cotton Fabric Via Aerosol Spray Pyrolysis. 2022 , 24, 138-145	
199	Large-scale fabrication of core-shell triboelectric braided fibers and power textiles for energy harvesting and plantar pressure monitoring.	6
198	Functionalized Fiber-Based Strain Sensors: Pathway to Next-Generation Wearable Electronics 2022 , 14, 61	9
197	Potential Applications of Organic Solar Cells. 2022 , 645-676	O
196	A Mini-Review on Preparation of Functional Composite Fibers and Their Based Devices. 2022 , 12, 473	О
195	Electronic textiles for energy, sensing, and communication 2022 , 25, 104174	2

194	In-situ-reduced synthesis of cyano group modified g-C3N4/CaCO3 composite with highly enhanced photocatalytic activity for nicotine elimination. 2022 ,	О
193	Ultra-Robust and Extensible Fibrous Mechanical Sensors for Wearable Smart Healthcare <i>Advanced Materials</i> , 2022 , e2107511	11
192	Superstable and Intrinsically Self-Healing Fibrous Membrane with Bionic Confined Protective Structure for Breathable Electronic Skin.	1
191	Superstable and Intrinsically Self-healing Fibrous Membrane with Bionic Confined Protective Structure for Breathable Electronic Skin 2022 ,	4
190	Ionic Thermoelectric Effect Inducing Cation-Enriched Surface of Hydrogel to Enhance Output Performance of Triboelectric Nanogenerator. 2200070	2
189	Recent progress of fiber-based transistors: materials, structures and applications. 2022 , 15, 1	1
188	Epitaxial nanofiber separator enabling folding-resistant coaxial fiber-supercapacitor module. 2022,	O
187	Nem KarBada Yksek Kararl Bahip Tekstil Tabanl Bakl Sens D 2022 , 29, 2-7	
186	Highly Permeable and Ultrastretchable Liquid Metal Micromesh for Skin-Attachable Electronics. 2022 , 4, 634-641	5
185	An Energy Harvester Coupled with a Triboelectric Mechanism and Electrostatic Mechanism for Biomechanical Energy Harvesting 2022 , 12,	1
184	Progress of Advanced Devices and Internet of Things Systems as Enabling Technologies for Smart Homes and Health Care.	3
183	Thermally drawn highly conductive fibers with controlled elasticity <i>Advanced Materials</i> , 2022 , e22010824	4
182	Micromixing with In-Flight Charging of Polymer Solutions in a Single Step Enables High-Throughput Production of Micro- and Nanofibers 2022 , 7, 12549-12555	1
181	Smart Electronic Textiles for Wearable Sensing and Display 2022 , 12,	4
180	Strategies for body-conformable electronics. 2022 , 5, 1104-1136	12
179	Tunable hierarchical hexagonal nickel telluride (Ni3Te2) laminated microsheets as flexible counter electrodes for high-performance fibrous dye-sensitized solar cells: accelerated electrocatalysis reduction of I3- ions. 2022 , 136286	O
178	Integrated design of ultrathin crosslinked network polymer electrolytes for flexible and stable all-solid-state lithium batteries. 2022 , 47, 453-461	3
177	One-step construction of flexible conductive-piezoelectric nanoresistance network material for pressure sensing and positioning. 2022 , 641, 128592	3

176	A facile method combined with electroless nickel plating and carbonization to fabricate textured Ni-coated carbon tube for flexible strain sensor. 2022 , 643, 128729	1
175	A self-powered triboelectric multi-information motion monitoring sensor and its application in wireless real-time control. 2022 , 97, 107150	3
174	Recent advances in inorganic functional nanomaterials based flexible electrochemical sensors 2022 , 244, 123419	5
173	Twisted graphene fibre based breathable, wettable and washable anti-jamming strain sensor for underwater motion sensing. 2022 , 439, 135502	2
172	Beyond powders: Monoliths on the basis of metal-organic frameworks (MOFs). 2022 , 441, 135953	3
171	An Innovative Concept: Free Energy Harvesting Through Self-Powered Triboelectric Nanogenerator. 2021 , 16, 1844-1849	
170	Wearable Bioelectronics for Chronic Wound Management. 2111022	19
169	Recent Advances in Sustainable Wearable Energy Devices with Nanoscale Materials and Macroscale Structures. 2110535	5
168	Stress-induced controllable magnetic properties in flexible epitaxial Mn0.5Zn0.5Fe2O4 ferrite films. 2021 ,	
167	para-Aramid Nanofiber Membranes for High-Performance and Multifunctional Materials. 2022 , 5, 747-758	Ο
166	Improvement of Stretchable and Washable Carbon-Nanotube-Based Textile Supercapacitors by using Molybdenum Trioxide Nanoflakes and Prewashing Treatment. 2101204	
165	Stretchable Thermoelectric-Based Self-Powered Dual-Parameter Sensors with Decoupled Temperature and Strain Sensing. 2021 ,	12
164	Flexible Piezoelectric and Triboelectric Sensors for Energy Harvesting Applications. 2022, 131-152	
164 163	Flexible Piezoelectric and Triboelectric Sensors for Energy Harvesting Applications. 2022 , 131-152 Self-Healing Interconnects for Hybrid Flexible Electronics. 2022 , 1-1	
ŕ		5
163	Self-Healing Interconnects for Hybrid Flexible Electronics. 2022, 1-1 Direct-ink writing 3D printed energy storage devices: From material selectivity, design and	5
163 162	Self-Healing Interconnects for Hybrid Flexible Electronics. 2022, 1-1 Direct-ink writing 3D printed energy storage devices: From material selectivity, design and optimization strategies to diverse applications. 2022,	

158	Robust Memristive Fiber for Woven Textile Memristor. 2201510	4
157	Piezoelectric Fibers: Processing and Challenges 2022,	2
156	Clinical Biosensors: Considerations and Development Process. 2022, 83-98	
155	Self-Stretchable Fiber Liquid Sensors Made with Bacterial Cellulose/Carbon Nanotubes for Smart Diapers 2022 ,	О
154	Capacitance of Flexible Polymer/Graphene Microstructures with High Mechanical Strength.	
153	A novel method for the production of conductive ring spun yarn. 2022 , 29, 4767-4785	О
152	Smart- textile strain sensor for human joint monitoring. 2022 , 341, 113587	1
151	Unveiling the synergistic effect of cobalt ion in nickel-cobalt layered double hydroxide for electrochemical energy storage: Experimental and computational approaches. 2022 , 140547	O
150	Multi-factors-controlled ReRAM devices and their applications.	2
149	Mixed-Dimensional MXene-Based Composite Electrodes Enable Mechanically Stable and Efficient Flexible Perovskite Light-Emitting Diodes 2022 ,	2
148	Nature-inspired materials and designs for flexible lithium-ion batteries.	5
147	Marangoni-flow-assisted assembly of single-walled carbon nanotube films for human motion sensing. 2022 ,	
146	Cutting of optical fibers using a Bessel profile femtosecond laser. 2022 , 520, 128458	O
145	Plasma-Enhanced Carbon Nanotube Fiber Cathode for Li-S Batteries. 2022 , 8, 30	
144	Stretchable supercapacitor based on a hierarchical PPy/CNT electrode and hybrid hydrogel electrolyte with a wide operating temperature.	1
143	Fibre-based wearable electronic technology for personal protective clothing. 2022 , 511-547	
142	A Dielectric Polymer/Metal Oxide Nanowire Composite for Self-Adaptive Charge Release.	2
141	Fabric-inspired thermoelectric two-dimensional imaging array based on carbon nanotube. 2022 , 12, 065212	О

140	E-textile based modular sEMG suit for large area level of effort analysis. 2022, 12,	0
139	Silk Fiber Multiwalled Carbon Nanotube-Based Micro-/Nanofiber Composite as a Conductive Fiber and a Force Sensor. 2022 , 7, 20809-20818	O
138	Organic light-emitting fibers and fabrics for truly wearable smart displays: Recent progress and future opportunities.	1
137	A widely applicable method to stabilize nanoparticles comprising oxygen-rich functional groups. 2022 , 407, 117633	
136	Adaptive Dielectric Thin Film Transistors: Device Physics and Modeling. 2022,	
135	Strain and stress sensing properties of the MWCNT/TPU nanofiber film. 2022 , 32, 102132	1
134	Fibrous triboelectric nanogenerators: fabrication, integration, and application.	2
133	Exploring smart graphitic carbon nitride material toward flexible energy storage supercapacitors. 2022 , 21-37	
132	Approaches to Preceramic Polymer Fiber Fabrication and On-Demand Applications. 2022, 15, 4546	
131	A two-dimensional finite element model for Cu-CNT composite: the impact of interface resistances on electrical and thermal transports. 2022 , 101505	Ο
130	Assessment of Socket Pressure during Walking in Rapid Fit Prosthetic Sockets. 2022 , 22, 5224	
129	Electronic textiles for electrocardiogram monitoring: a review on the structureproperty and performance evaluation from fiber to fabric. 004051752211082	1
128	A Single-material-printed, Low-cost design for a Carbon-based fabric strain sensor. 2022 , 221, 110926	1
127	Smart multi-responsive aramid aerogel fiber enabled self-powered fabrics. 2022 , 101, 107559	2
126	Recent advancements in the field of flexible/wearable enzyme fuel cells. 2022, 214, 114545	3
125	Recent advances of micro-nanofiber materials for rechargeable zinc-air batteries. 2022, 51, 181-211	2
124	Recent progress in fibrous high-entropy energy harvesting devices for wearable applications. 2022 , 101, 107600	0
123	The Strain-Modulated Single-Mode Laser of Perovskite Microsheets with Grooves on Ultrathin Flexible Mica. 2200222	1

122	Environmentally Tolerant Ionic Hydrogel with High Power Density for Low-Grade Heat Harvesting.	3
121	Curing Free, Silver Nano Ink Based Inkjet Printed Fabrics for Bio-Medical Applications. 2022,	
120	Smart Nanotextiles for Wearable Health Monitoring. 2022 , 87-134	O
119	Smart Nanotextiles Applications: A General Overview. 2022 , 1-85	
118	Ultra-Lightweight, Highly Permeable, and Waterproof Fibrous Organic Electrochemical Transistors for On-Skin Bioelectronics. 2200611	1
117	Functional Fiber Materials to Smart Fiber Devices.	2
116	CNT @ LDH functionalized poly(lactic acid) membranes with super oilwater separation and real-time press sensing properties.	О
115	Textile-Triboelectric nanogenerators (T-TENGs) for wearable energy harvesting devices. 2022, 138741	1
114	Water stable and matrix addressable OLED fiber textiles for wearable displays with large emission area. 2022 , 6,	0
113	Biocompatible organic electrochemical transistor on polymeric scaffold for wound healing monitoring. 2022 , 7, 035009	1
112	Additive manufacturing for advanced rechargeable lithium batteries: A mini review. 10,	O
111	Carbon nanotubes boosts the toughness and conductivity of wet-spun MXene fibers for fiber-shaped super capacitors. 2022 , 200, 38-46	O
110	Advances in the design and assembly of flexible thermoelectric device. 2023 , 131, 101003	9
109	Wearable and flexible electrodes in nanogenerators for energy harvesting, tactile sensors, and electronic textiles: novel materials, recent advances, and future perspectives. 2022 , 100233	2
108	CHAPTER 7. Conventional Substrates for Printed Electronics. 2022 , 243-289	0
107	Review on Organic Phase Change Materials for Sustainable Energy Storage.	2
106	A multicolor tunable fiber with corefhultishell structure by electroluminescence-thermochromic mixing. 2022 , 10, 12582-12587	O
105	Weaving a magnificent world: 1D fibrous electrodes and devices for stretchable and wearable electronics. 2022 , 10, 14027-14052	2

104	A Critical Review: Impact of Electrical Poling on Longitudinal Piezoelectric Strain Coefficient.	0
103	Tailoring molecular interaction in heteronetwork polymer electrolytes for stretchable, high-voltage fiber supercapacitors. 2023 , 452, 139432	O
102	Printed Stretchable Graphene Conductors for Wearable Technology. 2022, 34, 8031-8042	O
101	Paper-Derived Millimeter-Thick Yarn Supercapacitors Enabling High Volumetric Energy Density. 2022 , 14, 42671-42682	O
100	A Moore's lawlfor fibers enables intelligent fabrics.	2
99	Carbon Dots-Based Ultrastretchable and Conductive Hydrogels for High-Performance Tactile Sensors and Self-Powered Electronic Skin. 2204365	6
98	High-throughput data mined prediction of design and preparation of flexible carbon-based conductive materials in energy storage. 2022 ,	О
97	Recent Progress in Aqueous Ammonium-Ion Batteries. 2022 , 7, 33732-33748	1
96	Review of Flexible Piezoresistive Strain Sensors in Civil Structural Health Monitoring. 2022 , 12, 9750	2
95	High-Strength and Extensible Electrospun Yarn for Wearable Electronics.	O
94	Impact of Planar and Vertical Organic Field-Effect Transistors on Flexible Electronics. 2204804	2
93	Wearable Flexible Piezoelectric Energy Harvesters. 2022 , 171-185	O
92	Fiber-Based Materials for Aqueous Zinc Ion Batteries.	1
91	Bottom-up reconstruction of smart textiles with hierarchical structures to assemble versatile wearable devices for multiple signals monitoring. 2022 , 107963	1
90	Robust, Breathable and Flexible Smart Textiles as Multifunctional Sensor and Heater for Personal Health Management.	1
89	Advanced Fiber Materials for Wearable Electronics.	3
88	Carbon Nanotube Microscale Fiber Grid as an Advanced Calibration System for Multispectral Optoacoustic Imaging. 2022 , 9, 3429-3439	0
87	A Review on Wearable Electrospun Polymeric Piezoelectric Sensors and Energy Harvesters. 2200442	2

86	Recent Progress on Flexible Room-Temperature Gas Sensors Based on Metal Oxide Semiconductor. 2022 , 14,	2
85	Recent progress on hybrid fibrous electromagnetic shields: Key protectors of living species against electromagnetic radiation. 2022 , 5, 3807-3868	O
84	Sandwich-structured ion exchange membrane/cotton fabric based flexible high-efficient and constant electricity generator. 2022 , 261, 125411	O
83	UV curable PUA ink with polymerizable surfactant-enhanced Ag@PPy for fabricating flexible and durable conductive coating on the surface of cotton fabric. 2023 , 174, 107239	О
82	High energy density flexible and ecofriendly lithium-ion smart battery. 2023, 54, 266-275	1
81	Soft Microstructured Optical Fibers via Thermal Drawing. 2022 ,	О
80	Construction of an Electrical Conductor, Strain Sensor, Electrical Connection and Cycle Switch Using Conductive Graphite Cotton Fabrics. 2022 , 14, 4767	1
79	Improved performance of stretchable piezoelectric energy harvester based on stress rearrangement. 2022 , 12,	О
78	Post-Treatment of Tannic Acid for Thermally Stable PEDOT:PSS Film. 2022 , 14, 4908	О
77	A Review of Electro Conductive Textiles Utilizing the Dip-Coating Technique: Their Functionality, Durability and Sustainability. 2022 , 14, 4713	О
76	A magnetically and thermally controlled liquid metal variable stiffness material.	1
75	Fabrication, properties, and performance of graphene-based textile fabrics for supercapacitor applications: A review. 2022 , 56, 105988	1
74	Triboelectric Nanogenerator Enabled Wearable Sensors and Electronics for Sustainable Internet of Things Integrated Green Earth. 2203040	4
73	Stretchable Composite Conductive Fibers for Wearables. 2201442	1
72	Ultrathin, all-organic, fabric based ferroelectret loudspeaker for wearable electronics. 2022, 105607	0
71	Metal-organic framework-assisted Co3O4/CuO@CoMnP with core-shell nanostructured architecture on Cu fibers for fabrication of flexible wire-typed enzyme-free micro-sensors. 2023 , 456, 141088	1
70	Flexible carbon fiber based structural supercapacitor composites with solvate ionic liquid-epoxy solid electrolyte. 2023 , 455, 140778	2
69	Optimized electron/ion transport by constructing radially oriented channels in MXene hybrid fiber electrodes for high-performance supercapacitors at low temperatures.	1

68	Research Trends on Silk-Based Conductive Fibers with the Enhanced Machine Washability by Adopting PEDOT:PSS. 1-17	O
67	Toward Sustainable Wearable Electronic Textiles.	1
66	Highly Sensitive Self-Powered Biomedical Applications Using Triboelectric Nanogenerator. 2022 , 13, 2065	1
65	Stretchable nanogenerators for scavenging mechanical energy.	O
64	Conductive Textiles for Signal Sensing and Technical Applications. 2023, 4, 1-39	О
63	Recent Advances and Challenges in Barbier Polymerization.	O
62	Smart Clothing with Built-In Soft Sensing Network for Measuring Temporal and Spatial Distribution of Pressure under Impact Scenarios. 2200019	0
61	Stretchable One-Dimensional Conductors for Wearable Applications.	1
60	Transparent, Stretchable, and Recyclable Triboelectric Nanogenerator Based on an Acid- and Alkali-Resistant Hydrogel.	O
59	Scalable Fabrication of MXene-PVDF Nanocomposite Triboelectric Fibers via Thermal Drawing. 2206107	O
58	Solution processed organic thermoelectric generators as energy harvesters for the Internet of Things. 2022 , 121, 230501	О
57	Conductance-stable and integrated helical fiber electrodes toward stretchy energy storage and self-powered sensing utilization. 2022 , 141164	1
56	Wet-spun flexible carbon nanotubes/polyaniline fibers for wearable thermoelectric energy harvesting. 2022 , 107386	1
55	Cellulose-based fibrous materials for self-powered wearable pressure sensor: a mini review.	1
54	MXene/Fluoropolymer-Derived Laser-Carbonaceous All-Fibrous Nanohybrid Patch for Soft Wearable Bioelectronics. 2208894	0
53	Wearable and flexible electrochemical sensors for sweat analysis: a review. 2023 , 9,	3
52	Cesium Lead Halide Perovskite Decorated Polyvinylidene Fluoride Nanofibers for Wearable Piezoelectric Nanogenerator Yarns.	О
51	Fast and Integral Nano-Surface-Coating of Various Fiber Materials via Interfacial Polymerization. 2023 , 12, 93-100	O

50	Synthesis of hydrazine-fumaryl chloride-based polyamide and its electrical conductivity studies.	О
49	Recent Progress of Halide Perovskites Applied to Five Senses Sensors.	O
48	Performance Enhancement Strategies of Fibrous Solar Cells for Wearable Hybrid Energy System.	О
47	Ultra-fine self-powered interactive fiber electronics for smart clothing. 2023, 107, 108171	O
46	Shape-Programmable Liquid Metal Fibers. 2023 , 13, 28	0
45	Facile fabrication of microstructured surface using laser speckle for high-sensitivity capacitive pressure sensors. 2023 , 66, 155-164	O
44	A Review on the Status and Challenges of Cathodes in Room-Temperature Na-S Batteries. 2212600	О
43	Active signal-generating spacer-fabric-type continuous touch/pressure sensor.	O
42	Recent Advances and Challenges Toward Application of Fibers and Textiles in Integrated Photovoltaic Energy Storage Devices. 2023 , 15,	1
41	Self-Healing Multimodal Flexible Optoelectronic Fiber Sensors.	O
40	Appraisal of conducting polymers for potential bioelectronics. 2023, 265-298	O
39		
	Conductive Thread-Based Immunosensor for Pandemic Influenza A (H1N1) Virus Detection.	O
38	Conductive Thread-Based Immunosensor for Pandemic Influenza A (H1N1) Virus Detection. Chemically Deposited Iron Chalcogenide-Based Carbon Composites for Supercapacitor Applications. 2023, 83-121	0
	Chemically Deposited Iron Chalcogenide-Based Carbon Composites for Supercapacitor	
38	Chemically Deposited Iron Chalcogenide-Based Carbon Composites for Supercapacitor Applications. 2023, 83-121 Characteristics of Electrical Heating and Sensing Properties for CNTs/GNs Polyester-Knitted Fabrics	o
38	Chemically Deposited Iron Chalcogenide-Based Carbon Composites for Supercapacitor Applications. 2023, 83-121 Characteristics of Electrical Heating and Sensing Properties for CNTs/GNs Polyester-Knitted Fabrics Based on Network Structure. 2023, 24, 1139-1148 Ionic Flexible Mechanical Sensors: Mechanisms, Structural Engineering, Applications, and	0
38 37 36	Chemically Deposited Iron Chalcogenide-Based Carbon Composites for Supercapacitor Applications. 2023, 83-121 Characteristics of Electrical Heating and Sensing Properties for CNTs/GNs Polyester-Knitted Fabrics Based on Network Structure. 2023, 24, 1139-1148 Ionic Flexible Mechanical Sensors: Mechanisms, Structural Engineering, Applications, and Challenges.	0 0

32	Progress in nanocomposite based flexible temperature sensors: A review. 2023 , 27, 100692	O
31	Preparation and study of bark-like MXene based high output power hydroelectric generator. 2023 , 465, 142582	O
30	Highly flexible and multifunctional CNTs/TPU fiber strain sensor formed in one-step via wet spinning. 2023 , 948, 169641	О
29	A wearable electrochemical fabric for cytokine monitoring. 2023 , 232, 115301	O
28	Biomass-based coating for paper fabric with excellent flame retardancy for improved durability humidity/pressure sensors. 2023 , 458, 141535	O
27	Recyclable SolidBolid Phase Change Materials with Excellent Reprocessing Properties Based on Dynamic Disulfide Bonds. 2023 , 5, 1499-1508	O
26	Adhesive tapes: From daily necessities to flexible smart electronics. 2023, 10, 011305	О
25	Recent Progress of Conductive Hydrogel Fibers for Flexible Electronics: Fabrications, Applications, and Perspectives. 2213485	O
24	Polypyrrole-modified multi-functional coatings for improved electro-conductive, hydrophilic and flame-retardant properties of polyamide 66 textiles.	O
23	Soft Fiber Electronics Based on Semiconducting Polymer.	1
22	Invisible touch sensors-based smart and disposable door locking system for security applications. 2023 , 9, e13586	O
21	Wearable Thermoelectric Generators: Materials, Structures, Fabrications, and Applications. 2200502	O
20	Dry Fiber-Based Electrodes for Electrophysiology Applications.	O
19	MXene Fiber-based Wearable Textiles in Sensing and Energy Storage Applications. 2023 , 24, 1167-1182	O
18	Nano-Engineered Carbon Fibre-Based Piezoelectric Smart Composites for Energy Harvesting and Self-Powered Sensing. 2213918	O
17	Microstructured Droplet Based Porous Capacitive Pressure Sensor. 2022,	O
16	Flexible and Wearable Strain/Pressure Sensors. 2023 , 180-198	О
15	Bioinspired anti-freezing 3D-printable conductive hydrogel microfibers for highly-sensitive and wide-range detection of ultralow and high strains. 2023 ,	O

CITATION REPORT

14	A nanogenerator based on metal nanoparticles and magnetic ionic gradients. 2023, 15,	О
13	Investigation of Gas Diffusion Layers for Flexible Polymer Electrolyte Membrane Fuel Cells.	O
12	Advances in graphene-based flexible and wearable strain sensors. 2023, 464, 142576	0
11	Advances in Ag2Se-based thermoelectrics from materials to applications.	O
10	Wearable and Stretchable SEBS/CB Polymer Conductive Strand as a Piezoresistive Strain Sensor. 2023 , 15, 1618	0
9	Piezoelectric fibers for flexible and wearable electronics. 2023 , 16,	O
8	Research on the Planar Electrical Anisotropy of Conductive Woven Fabrics.	О
7	Strain-Insensitive Stretchable Fiber Conductors Based on Highly Conductive Buckled Shells for Wearable Electronics. 2023 , 15, 18281-18289	O
6	Biocompatible Material-Based Flexible Biosensors: From Materials Design to Wearable/Implantable Devices and Integrated Sensing Systems.	O
5	A Self-Powered Piezoelectric Nanofibrous Membrane as Wearable Tactile Sensor for Human Body Motion Monitoring and Recognition.	O
4	Structure and Physical Properties of Conductive Bamboo Fiber Bundle Fabricated by Magnetron Sputtering. 2023 , 16, 3154	О
3	An Ultrathin Flexible Programmable Spin Logic Device Based on Spin D rbit Torque.	O
2	High-performance smart cellulose nanohybrid aerogel fibers as a platform toward multifunctional textiles. 2023 , 143153	О
1	Advanced Design of High-Performance Moist-Electric Generators.	O