

Recent Advances in 1D Stretchable Electrodes and Devices Electronics: Materials, Fabrications, and Applications

Advanced Materials

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Breathable and Flexible Polymer Membranes with Mechanoresponsive Electric Resistance. <i>Advanced Functional Materials</i> , 2020, 30, 1907555.	7.8	44
2	Organic Bioelectronics: Using Highly Conjugated Polymers to Interface with Biomolecules, Cells, and Tissues in the Human Body. <i>Advanced Materials Technologies</i> , 2020, 5, 2000384.	3.0	38
3	Large-Area, Wearable, Self-Powered Pressure-Temperature Sensor Based on 3D Thermoelectric Spacer Fabric. <i>ACS Sensors</i> , 2020, 5, 2545-2554.	4.0	106
4	Multiresponsive MXene (Ti ₃ C ₂ T _x)-Decorated Textiles for Wearable Thermal Management and Human Motion Monitoring. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 34226-34234.	4.0	106
5	Scalable thermoelectric fibers for multifunctional textile-electronics. <i>Nature Communications</i> , 2020, 11, 6006.	5.8	122
6	Smart materials for smart healthcare—moving from sensors and actuators to self-sustained nanoenergy nanosystems. <i>Smart Materials in Medicine</i> , 2020, 1, 92-124.	3.7	85
7	Recent Advances in Flexible Field-Effect Transistors toward Wearable Sensors. <i>Advanced Intelligent Systems</i> , 2020, 2, 2000113.	3.3	46
8	Robust Deposition of Silver Nanoparticles on Paper Assisted by Polydopamine for Green and Flexible Electrodes. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 12842-12851.	3.2	37
9	Graphene-based encapsulation of liquid metal particles. <i>Nanoscale</i> , 2020, 12, 23995-24005.	2.8	37
10	Synthesis of a Three-Dimensional Interconnected Oxygen-, Boron-, Nitrogen-, and Phosphorus Tetratomic-Doped Porous Carbon Network as Electrode Material for the Construction of a Superior Flexible Supercapacitor. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 46170-46180.	4.0	53
11	Electrostatic Twisting of Core-Shell Nanofibers for Strain Sensing Applications. <i>ACS Applied Polymer Materials</i> , 2020, 2, 4472-4480.	2.0	6
12	Ultrasensitive and Stretchable Conductive Fibers Using Percolated Pd Nanoparticle Networks for Multisensing Wearable Electronics: Crack-Based Strain and H ₂ Sensors. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 45243-45253.	4.0	16
13	Performance Evaluation of Knitted and Stitched Textile Strain Sensors. <i>Sensors</i> , 2020, 20, 7236.	2.1	25
14	Parallel-Stacked Flexible Organic Light-Emitting Diodes for Wearable Photodynamic Therapeutics and Color-Tunable Optoelectronics. <i>ACS Nano</i> , 2020, 14, 15688-15699.	7.3	62
15	Microstructure Design of Carbonaceous Fibers: A Promising Strategy toward High-Performance Weaveable/Wearable Supercapacitors. <i>Small</i> , 2020, 16, e2000653.	5.2	48
16	Enabling Deformable and Stretchable Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2001424.	10.2	136
17	An All-Textile Non-muscular Biomimetic Actuator Based on Electrohydrodynamic Swelling. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 408.	2.0	8
18	Smart Textiles for Electricity Generation. <i>Chemical Reviews</i> , 2020, 120, 3668-3720.	23.0	644

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19	Recent progress on hollow array architectures and their applications in electrochemical energy storage. <i>Nanoscale Horizons</i> , 2020, 5, 1188-1199.	4.1	48
20	An "inverted load" strategy to fabricate interface-optimized flexible electrodes with superior electrochemical performance and ultrastability. <i>Journal of Materials Chemistry C</i> , 2020, 8, 11128-11137.	2.7	0
21	On the Interaction between 1D Materials and Living Cells. <i>Journal of Functional Biomaterials</i> , 2020, 11, 40.	1.8	6
22	Advances in Sweat Wearables: Sample Extraction, Real-Time Biosensing, and Flexible Platforms. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 34337-34361.	4.0	72
23	Multifunctional Conductive Hydrogel/Thermochromic Elastomer Hybrid Fibers with a Core-Shell Segmental Configuration for Wearable Strain and Temperature Sensors. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 7565-7574.	4.0	114
24	Perovskite-Carbon Nanotube Light-Emitting Fibers. <i>Nano Letters</i> , 2020, 20, 3178-3184.	4.5	18
25	Wearable, ultrathin and transparent bacterial celluloses/MXene film with Janus structure and excellent mechanical property for electromagnetic interference shielding. <i>Chemical Engineering Journal</i> , 2021, 403, 126438.	6.6	145
26	Functional Fibers and Fabrics for Soft Robotics, Wearables, and Human-Robot Interface. <i>Advanced Materials</i> , 2021, 33, e2002640.	11.1	278
27	Stretchable, Washable, and Ultrathin Triboelectric Nanogenerators as Skin-Like Highly Sensitive Self-Powered Haptic Sensors. <i>Advanced Functional Materials</i> , 2021, 31, .	7.8	155
28	Flexible and freestanding MoS ₂ /rGO/CNT hybrid fibers for high-capacity all-solid supercapacitors. <i>Carbon</i> , 2021, 172, 132-137.	5.4	81
29	Thermal management of wearable and implantable electronic healthcare devices: Perspective and measurement approach. <i>International Journal of Energy Research</i> , 2021, 45, 1517-1534.	2.2	14
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31	Fractional structured molybdenum oxide catalyst as counter electrodes of all-solid-state fiber dye-sensitized solar cells. <i>Journal of Colloid and Interface Science</i> , 2021, 584, 520-527.	5.0	16
32	Stretchable Electronics Based on PDMS Substrates. <i>Advanced Materials</i> , 2021, 33, e2003155.	11.1	319
33	Recent Progress in Flexible Microstructural Pressure Sensors toward Human-Machine Interaction and Healthcare Applications. <i>Small Methods</i> , 2021, 5, e2001041.	4.6	101
34	Recent advances on the fabrication methods of nanocomposite yarn-based strain sensor. <i>Nanotechnology Reviews</i> , 2021, 10, 221-236.	2.6	22
35	Anisotropic conductive networks for multidimensional sensing. <i>Materials Horizons</i> , 2021, 8, 2615-2653.	6.4	30
36	Interface Design for Stretchable Electronic Devices. <i>Advanced Science</i> , 2021, 8, 2004170.	5.6	44

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37	Ultrarobust, tough and highly stretchable self-healing materials based on cartilage-inspired noncovalent assembly nanostructure. <i>Nature Communications</i> , 2021, 12, 1291.	5.8	254
38	Highly stretchable large area woven, knitted and robust braided textile based interconnection for stretchable electronics. <i>Scientific Reports</i> , 2021, 11, 4038.	1.6	7
39	High-Performance Laminated Fabric with Enhanced Photothermal Conversion and Joule Heating Effect for Personal Thermal Management. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 8851-8862.	4.0	100
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42	Bioinspired tough gel sheath for robust and versatile surface functionalization. <i>Science Advances</i> , 2021, 7, .	4.7	44
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51	Two-dimensional black phosphorus: Properties, fabrication and application for flexible supercapacitors. <i>Chemical Engineering Journal</i> , 2021, 412, 128744.	6.6	37
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53	Electronic fibers and textiles: Recent progress and perspective. <i>IScience</i> , 2021, 24, 102716.	1.9	60
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56	Microstructure Engineering of Stretchable Resistive Strain Sensors with Discrimination Capabilities in Transverse and Longitudinal Directions. <i>Macromolecular Materials and Engineering</i> , 2021, 306, 2100283.	1.7	8
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60	Scalable production of high-performing woven lithium-ion fibre batteries. <i>Nature</i> , 2021, 597, 57-63.	13.7	270
61	Liquid Metal Hybrid Composites with High-Sensitivity and Large Dynamic Range Enabled by Micro- and Macrostructure Engineering. <i>ACS Applied Polymer Materials</i> , 2021, 3, 5302-5315.	2.0	22
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63	Self-Powered Smart Arm Training Band Sensor Based on Extremely Stretchable Hydrogel Conductors. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 44868-44877.	4.0	49
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80	Washable, Low-Temperature Cured Joints for Textile-Based Electronics. <i>Electronics (Switzerland)</i> , 2021, 10, 2749.	1.8	4
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83	Stress Dissipation Encoded Silk Fibroin Electrode for the Athleteâ€œBeneficial Silk Bioelectronics. <i>Advanced Science</i> , 2022, 9, e2105420.	5.6	11
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92	A Review of Cyclic Olefin Copolymer Applications in Microfluidics and Microdevices. <i>Macromolecular Materials and Engineering</i> , 2022, 307, .	1.7	32
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149	Liquid Metal Enabled Elastic Conductive Fibers for Self-Powered Wearable Sensors. Advanced Materials Technologies, 2023, 8, .	3.0	0
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