

Stretchable silicon nanoribbon electronics for skin prosthetics

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Recent Progress in Electronic Skin. <i>Advanced Science</i> , 2015, 2, 1500169.	5.6	789
2	Columnar grown copper films on polyimides strained beyond 100%. <i>Scientific Reports</i> , 2015, 5, 13791.	1.6	11
3	Wearable Fall Detector using Integrated Sensors and Energy Devices. <i>Scientific Reports</i> , 2015, 5, 17081.	1.6	74
4	High-Resolution Printing of 3D Structures Using an Electrohydrodynamic Inkjet with Multiple Functional Inks. <i>Advanced Materials</i> , 2015, 27, 4322-4328.	11.1	243
5	Sensitive Flexible Magnetic Sensors using Organic Transistors with Magnetic-Functionalized Suspended Gate Electrodes. <i>Advanced Materials</i> , 2015, 27, 7979-7985.	11.1	52
6	Magnetic Nanocomposite Cilia Tactile Sensor. <i>Advanced Materials</i> , 2015, 27, 7888-7892.	11.1	156
7	Oxide Nanomembrane Hybrids with Enhanced Mechano- and Thermo-Sensitivity for Semitransparent Epidermal Electronics. <i>Advanced Healthcare Materials</i> , 2015, 4, 992-997.	3.9	49
8	Thickness-Gradient Films for High Gauge Factor Stretchable Strain Sensors. <i>Advanced Materials</i> , 2015, 27, 6230-6237.	11.1	300
9	A Stretchable and Highly Sensitive Graphene-Based Fiber for Sensing Tensile Strain, Bending, and Torsion. <i>Advanced Materials</i> , 2015, 27, 7365-7371.	11.1	673
10	Transfer Printed Nanomembranes for Heterogeneously Integrated Membrane Photonics. <i>Photonics</i> , 2015, 2, 1081-1100.	0.9	14
11	Woven flexible textile structure for wearable power-generating tactile sensor array. <i>Smart Materials and Structures</i> , 2015, 24, 075002.	1.8	40
12	Highly Stretchable 2D Fabrics for Wearable Triboelectric Nanogenerator under Harsh Environments. <i>ACS Nano</i> , 2015, 9, 6394-6400.	7.3	310
13	Stretchable inorganic nanomembrane electronics for healthcare devices. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
14	Tactile cues significantly modulate the perception of sweat-induced skin wetness independently of the level of physical skin wetness. <i>Journal of Neurophysiology</i> , 2015, 113, 3462-3473.	0.9	26
15	Human skin wetness perception: psychophysical and neurophysiological bases. <i>Temperature</i> , 2015, 2, 86-104.	1.7	66
16	Highly Sensitive Tactile Sensing Array Realized Using a Novel Fabrication Process With Membrane Filters. <i>Journal of Microelectromechanical Systems</i> , 2015, 24, 2062-2070.	1.7	19
17	Highly Sensitive and Stretchable Multidimensional Strain Sensor with Prestrained Anisotropic Metal Nanowire Percolation Networks. <i>Nano Letters</i> , 2015, 15, 5240-5247.	4.5	527
18	Practical, stretchable smart skin sensors for contact-aware robots in safe and collaborative interactions. , 2015, , .		22

#	ARTICLE	IF	CITATIONS
19	Stretchable Loudspeaker using Liquid Metal Microchannel. <i>Scientific Reports</i> , 2015, 5, 11695.	1.6	81
20	Stretchable Carbon Nanotube Charge-Trap Floating-Gate Memory and Logic Devices for Wearable Electronics. <i>ACS Nano</i> , 2015, 9, 5585-5593.	7.3	124
21	Stretchable, Transparent, Ultrasensitive, and Patchable Strain Sensor for Human-Machine Interfaces Comprising a Nanohybrid of Carbon Nanotubes and Conductive Elastomers. <i>ACS Nano</i> , 2015, 9, 6252-6261.	7.3	821
22	A Hyper-Stretchable Elastic-Composite Energy Harvester. <i>Advanced Materials</i> , 2015, 27, 2866-2875.	11.1	350
23	Elastomeric Electronic Skin for Prosthetic Tactile Sensation. <i>Advanced Functional Materials</i> , 2015, 25, 2287-2295.	7.8	321
24	Flexible and self-powered temperature-pressure dual-parameter sensors using microstructure-frame-supported organic thermoelectric materials. <i>Nature Communications</i> , 2015, 6, 8356.	5.8	453
25	Fingertip skin-inspired microstructured ferroelectric skins discriminate static/dynamic pressure and temperature stimuli. <i>Science Advances</i> , 2015, 1, e1500661.	4.7	704
26	Stretchable and transparent electrodes based on in-plane structures. <i>Nanoscale</i> , 2015, 7, 14577-14594.	2.8	86
27	Lateral buckling and mechanical stretchability of fractal interconnects partially bonded onto an elastomeric substrate. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	44
28	A skin-inspired organic digital mechanoreceptor. <i>Science</i> , 2015, 350, 313-316.	6.0	708
29	A chameleon-inspired stretchable electronic skin with interactive colour changing controlled by tactile sensing. <i>Nature Communications</i> , 2015, 6, 8011.	5.8	749
30	Transparent Stretchable Self-Powered Patchable Sensor Platform with Ultrasensitive Recognition of Human Activities. <i>ACS Nano</i> , 2015, 9, 8801-8810.	7.3	450
31	Invasive vs. Non-Invasive Neuronal Signals for Brain-Machine Interfaces: Will One Prevail?. <i>Frontiers in Neuroscience</i> , 2016, 10, 295.	1.4	95
32	The Reality of Myoelectric Prostheses: Understanding What Makes These Devices Difficult for Some Users to Control. <i>Frontiers in Neurobotics</i> , 2016, 10, 7.	1.6	100
33	Recent Advancements in Liquid Metal Flexible Printed Electronics: Properties, Technologies, and Applications. <i>Micromachines</i> , 2016, 7, 206.	1.4	154
34	Contact Pressure Level Indication Using Stepped Output Tactile Sensors. <i>Sensors</i> , 2016, 16, 511.	2.1	3
35	Design, Assembly, and Fabrication of Two-Dimensional Nanomaterials into Functional Biomimetic Device Systems. , 0, , .		1
36	Flexible Piezoresistive Sensor Patch Enabling Ultralow Power Cuffless Blood Pressure Measurement. <i>Advanced Functional Materials</i> , 2016, 26, 1178-1187.	7.8	367

#	ARTICLE	IF	CITATIONS
37	Pursuing prosthetic electronic skin. <i>Nature Materials</i> , 2016, 15, 937-950.	13.3	1,821
38	Neurophysiology of Skin Thermal Sensations. , 2016, 6, 1429-1491.		87
39	Biomimetic rehabilitation engineering: the importance of somatosensory feedback for brain-machine interfaces. <i>Journal of Neural Engineering</i> , 2016, 13, 041001.	1.8	26
40	Stretchable Twisted-Pair Transmission Lines for Microwave Frequency Wearable Electronics. <i>Advanced Functional Materials</i> , 2016, 26, 4635-4642.	7.8	41
41	49-4L: Late-News Paper: All-Ink-Jet-Printed Wearable Information Display Directly Fabricated onto an Elastomeric Substrate. <i>Digest of Technical Papers SID International Symposium</i> , 2016, 47, 672-675.	0.1	2
42	Double-Twisted Conductive Smart Threads Comprising a Homogeneously and a Gradient-Coated Thread for Multidimensional Flexible Pressure-Sensing Devices. <i>Advanced Functional Materials</i> , 2016, 26, 4078-4084.	7.8	65
43	Mechanically Durable and Highly Stretchable Transistors Employing Carbon Nanotube Semiconductor and Electrodes. <i>Advanced Materials</i> , 2016, 28, 4441-4448.	11.1	234
44	Designed Assembly and Integration of Colloidal Nanocrystals for Device Applications. <i>Advanced Materials</i> , 2016, 28, 1176-1207.	11.1	211
45	Monitoring of Vital Signs with Flexible and Wearable Medical Devices. <i>Advanced Materials</i> , 2016, 28, 4373-4395.	11.1	1,033
46	Mechanically Stretchable and Electrically Insulating Thermal Elastomer Composite by Liquid Alloy Droplet Embedment. <i>Scientific Reports</i> , 2016, 5, 18257.	1.6	109
47	Piezopotential-Programmed Multilevel Nonvolatile Memory As Triggered by Mechanical Stimuli. <i>ACS Nano</i> , 2016, 10, 11037-11043.	7.3	37
48	Nanofibril scaffold assisted MEMS artificial hydrogel neuromasts for enhanced sensitivity flow sensing. <i>Scientific Reports</i> , 2016, 6, 19336.	1.6	80
49	3D Stretchable Arch Ribbon Array Fabricated via Grayscale Lithography. <i>Scientific Reports</i> , 2016, 6, 28552.	1.6	7
50	Soft bioelectronics using nanomaterials. <i>Proceedings of SPIE</i> , 2016, , .	0.8	0
51	Tactile to vibrotactile sensory feedback interface for prosthetic hand users. , 2016, , .		2
52	Mechanics of Fractal-Inspired Horseshoe Microstructures for Applications in Stretchable Electronics. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2016, 83, .	1.1	117
53	Liquid Metals for Soft and Stretchable Electronics. <i>Microsystems and Nanosystems</i> , 2016, , 3-30.	0.1	15
54	High-Performance Wearable Bioelectronics Integrated with Functional Nanomaterials. <i>Microsystems and Nanosystems</i> , 2016, , 151-171.	0.1	2

#	ARTICLE	IF	CITATIONS
55	An analytical model for studying the structural effects and optimization of a capacitive tactile sensor array. <i>Journal of Micromechanics and Microengineering</i> , 2016, 26, 045007.	1.5	22
56	Mechanics and Designs of Stretchable Bioelectronics. <i>Microsystems and Nanosystems</i> , 2016, , 53-68.	0.1	3
57	From stretchable to reconfigurable inorganic electronics. <i>Extreme Mechanics Letters</i> , 2016, 9, 245-268.	2.0	52
58	Energy Harvesters for Wearable and Stretchable Electronics: From Flexibility to Stretchability. <i>Advanced Materials</i> , 2016, 28, 9881-9919.	11.1	407
59	Environment-friendly carbon nanotube based flexible electronics for noninvasive and wearable healthcare. <i>Journal of Materials Chemistry C</i> , 2016, 4, 10061-10068.	2.7	119
60	A Stretchable Multicolor Display and Touch Interface Using Photopatterning and Transfer Printing. <i>Advanced Materials</i> , 2016, 28, 9770-9775.	11.1	135
61	Highly Stretchable and Conductive Copper Nanowire Based Fibers with Hierarchical Structure for Wearable Heaters. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 32925-32933.	4.0	134
62	Sheath-Core Graphite/Silk Fiber Made by Dry-Meyer-Rod-Coating for Wearable Strain Sensors. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 20894-20899.	4.0	196
64	Flexible and multifunctional electronics fabricated by a solvent-free and user-friendly method. <i>RSC Advances</i> , 2016, 6, 77267-77274.	1.7	27
65	Non-electronic gas sensors from electrospun mats of liquid crystal core fibres for detecting volatile organic compounds at room temperature. <i>Liquid Crystals</i> , 2016, 43, 1986-2001.	0.9	73
66	Nanomaterial-Based Soft Electronics for Healthcare Applications. <i>ChemNanoMat</i> , 2016, 2, 1006-1017.	1.5	65
67	Cephalopod-Inspired Miniaturized Suction Cups for Smart Medical Skin. <i>Advanced Healthcare Materials</i> , 2016, 5, 80-87.	3.9	175
68	Paper Skin Multisensory Platform for Simultaneous Environmental Monitoring. <i>Advanced Materials Technologies</i> , 2016, 1, 1600004.	3.0	93
69	Colloidal Synthesis of Uniform-Sized Molybdenum Disulfide Nanosheets for Wafer-Scale Flexible Nonvolatile Memory. <i>Advanced Materials</i> , 2016, 28, 9326-9332.	11.1	151
70	Soft Thermal Sensor with Mechanical Adaptability. <i>Advanced Materials</i> , 2016, 28, 9175-9181.	11.1	201
71	Composition-Dependent underwater adhesion of catechol-bearing hydrogels. <i>Polymer International</i> , 2016, 65, 1355-1359.	1.6	16
72	Stretchable Organic Semiconductor Devices. <i>Advanced Materials</i> , 2016, 28, 9243-9265.	11.1	188
73	Nanomaterial-based stretchable and transparent electrodes. <i>Journal of Information Display</i> , 2016, 17, 131-141.	2.1	33

#	ARTICLE	IF	CITATIONS
74	Skin-inspired organic electronic materials and devices. MRS Bulletin, 2016, 41, 897-904.	1.7	53
76	Design, Modeling, and Fabrication of Chemical Vapor Deposition Grown MoS ₂ Circuits with E-Mode FETs for Large-Area Electronics. Nano Letters, 2016, 16, 6349-6356.	4.5	142
78	Large-Area Compliant, Low-Cost, and Versatile Pressure-Sensing Platform Based on Microcrack-Designed Carbon Black@Polyurethane Sponge for Human-Machine Interfacing. Advanced Functional Materials, 2016, 26, 6246-6256.	7.8	481
79	Dramatically Enhanced Mechanosensitivity and Signal-to-Noise Ratio of Nanoscale Crack-Based Sensors: Effect of Crack Depth. Advanced Materials, 2016, 28, 8130-8137.	11.1	276
80	CMOS wireless stress sensor IC with 256-cell sensing array for ultra-thin applications. Electronics Letters, 2016, 52, 1660-1661.	0.5	5
81	Piezoresistive effect in p-type 3C-SiC at high temperatures characterized using Joule heating. Scientific Reports, 2016, 6, 28499.	1.6	55
82	A flexible proximity sensor formed by duplex screen/screen-offset printing and its application to non-contact detection of human breathing. Scientific Reports, 2016, 6, 19947.	1.6	32
83	Emerging flexible and wearable physical sensing platforms for healthcare and biomedical applications. Microsystems and Nanoengineering, 2016, 2, 16043.	3.4	385
84	Outputting Olfactory Bionic Electric Impulse by PANI/PTFE/PANI Sandwich Nanostructures and their Application as Flexible, Smelling Electronic Skin. Advanced Functional Materials, 2016, 26, 3128-3138.	7.8	102
85	Recent Advances in Flexible and Stretchable Bio-Electronic Devices Integrated with Nanomaterials. Advanced Materials, 2016, 28, 4203-4218.	11.1	894
86	An All-Elastomeric Transparent and Stretchable Temperature Sensor for Body-Attachable Wearable Electronics. Advanced Materials, 2016, 28, 502-509.	11.1	715
87	Capacitance Characterization of Elastomeric Dielectrics for Applications in Intrinsically Stretchable Thin Film Transistors. Advanced Functional Materials, 2016, 26, 4680-4686.	7.8	77
88	In-Plane Self-Turning and Twin Dynamics Renders Large Stretchability to Mono-Like Zigzag Silicon Nanowire Springs. Advanced Functional Materials, 2016, 26, 5352-5359.	7.8	34
89	Self-Powered High-Resolution and Pressure-Sensitive Triboelectric Sensor Matrix for Real-Time Tactile Mapping. Advanced Materials, 2016, 28, 2896-2903.	11.1	344
90	A Stretchable Electronic Fabric Artificial Skin with Pressure-, Lateral Strain-, and Flexion-Sensitive Properties. Advanced Materials, 2016, 28, 722-728.	11.1	400
91	A Cable-Shaped Lithium Sulfur Battery. Advanced Materials, 2016, 28, 491-496.	11.1	180
92	Ultrahigh Detective Heterogeneous Photosensor Arrays with In-Pixel Signal Boosting Capability for Large-Area and Skin-Compatible Electronics. Advanced Materials, 2016, 28, 3078-3086.	11.1	76
93	A high-sensitivity tactile sensor based on piezoelectric polymer PVDF coupled to an ultra-low voltage organic transistor. Organic Electronics, 2016, 36, 57-60.	1.4	80

#	ARTICLE	IF	CITATIONS
94	Stretchable supercapacitor based on a cellular structure. <i>Journal of Materials Chemistry A</i> , 2016, 4, 10124-10129.	5.2	47
95	Fabrication and Characterization of Flexible Thin Film Transistors on Thin Solution-Cast Substrates. , 2016, , .		2
96	A finite deformation model of planar serpentine interconnects for stretchable electronics. <i>International Journal of Solids and Structures</i> , 2016, 91, 46-54.	1.3	83
97	Data-driven thermal recognition of contact with people and objects. , 2016, , .		10
98	Highly Sensitive, Flexible, and Wearable Pressure Sensor Based on a Giant Piezocapacitive Effect of Three-Dimensional Microporous Elastomeric Dielectric Layer. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 16922-16931.	4.0	404
99	Flexible and stretchable electronics for wearable healthcare devices and minimally invasive surgical tools. , 2016, , .		0
100	Highly Flexible Graphene Oxide Nanosuspension Liquid-Based Microfluidic Tactile Sensor. <i>Small</i> , 2016, 12, 1593-1604.	5.2	77
101	Stretchable and Transparent Biointerface Using Cellâ€Sheetâ€Graphene Hybrid for Electrophysiology and Therapy of Skeletal Muscle. <i>Advanced Functional Materials</i> , 2016, 26, 3207-3217.	7.8	123
102	Flexible and Stretchable Physical Sensor Integrated Platforms for Wearable Humanâ€Activity Monitoring and Personal Healthcare. <i>Advanced Materials</i> , 2016, 28, 4338-4372.	11.1	1,594
103	Skinâ€Inspired Haptic Memory Arrays with an Electrically Reconfigurable Architecture. <i>Advanced Materials</i> , 2016, 28, 1559-1566.	11.1	173
104	Stretchable and Multimodal All Graphene Electronic Skin. <i>Advanced Materials</i> , 2016, 28, 2601-2608.	11.1	493
105	Carbonized Silk Fabric for Ultrastretchable, Highly Sensitive, and Wearable Strain Sensors. <i>Advanced Materials</i> , 2016, 28, 6640-6648.	11.1	749
106	A graphene-based electrochemical device with thermoresponsive microneedles for diabetes monitoring and therapy. <i>Nature Nanotechnology</i> , 2016, 11, 566-572.	15.6	1,394
107	Deformable devices with integrated functional nanomaterials for wearable electronics. <i>Nano Convergence</i> , 2016, 3, 4.	6.3	54
108	Self-Powered Analogue Smart Skin. <i>ACS Nano</i> , 2016, 10, 4083-4091.	7.3	153
109	Highly stretchable electroluminescent skin for optical signaling and tactile sensing. <i>Science</i> , 2016, 351, 1071-1074.	6.0	1,106
110	Elastomerâ€Polymer Semiconductor Blends for High-Performance Stretchable Charge Transport Networks. <i>Chemistry of Materials</i> , 2016, 28, 1196-1204.	3.2	129
111	Modeling and Development of a Flexible Carbon Black-Based Capacitive Strain Sensor. <i>IEEE Sensors Journal</i> , 2016, 16, 3059-3067.	2.4	35

#	ARTICLE	IF	CITATIONS
112	Triple-State Liquid-Based Microfluidic Tactile Sensor with High Flexibility, Durability, and Sensitivity. ACS Sensors, 2016, 1, 543-551.	4.0	97
113	A wearable multiplexed silicon nonvolatile memory array using nanocrystal charge confinement. Science Advances, 2016, 2, e1501101.	4.7	139
114	Multifunctional Material Systems: A state-of-the-art review. Composite Structures, 2016, 151, 3-35.	3.1	231
115	Flexible electronics under strain: a review of mechanical characterization and durability enhancement strategies. Journal of Materials Science, 2016, 51, 2771-2805.	1.7	295
116	Highly Stretchable Fully-Printed CNT-Based Electrochemical Sensors and Biofuel Cells: Combining Intrinsic and Design-Induced Stretchability. Nano Letters, 2016, 16, 721-727.	4.5	276
117	Micro/nanostructured surfaces for self-powered and multifunctional electronic skins. Journal of Materials Chemistry B, 2016, 4, 2999-3018.	2.9	116
118	Freeform Compliant CMOS Electronic Systems for Internet of Everything Applications. IEEE Transactions on Electron Devices, 2017, 64, 1894-1905.	1.6	17
119	Flexible, Cuttable, and Self-Waterproof Bending Strain Sensors Using Microcracked Gold Nanofilms@Paper Substrate. ACS Applied Materials & Interfaces, 2017, 9, 4151-4158.	4.0	107
120	Ultra-sensitive Pressure sensor based on guided straight mechanical cracks. Scientific Reports, 2017, 7, 40116.	1.6	86
121	Self-powered, stretchable, fiber-based electronic-skin for actively detecting human motion and environmental atmosphere based on a triboelectrification/gas-sensing coupling effect. Journal of Materials Chemistry C, 2017, 5, 1231-1239.	2.7	51
122	Soft electrothermal actuators using silver nanowire heaters. Nanoscale, 2017, 9, 3797-3805.	2.8	142
123	Printable stretchable interconnects. Flexible and Printed Electronics, 2017, 2, 013003.	1.5	141
124	Electronic Devices for Human-Machine Interfaces. Advanced Materials Interfaces, 2017, 4, 1600709.	1.9	76
125	Materials and devices for transparent stretchable electronics. Journal of Materials Chemistry C, 2017, 5, 2202-2222.	2.7	118
126	Post-Buckling Analysis of Curved Beams. Journal of Applied Mechanics, Transactions ASME, 2017, 84, .	1.1	13
127	All-graphene strain sensor on soft substrate. Carbon, 2017, 116, 753-759.	5.4	164
128	Transparent, stretchable, and rapid-response humidity sensor for body-attachable wearable electronics. Nano Research, 2017, 10, 2021-2033.	5.8	194
129	Wearable/disposable sweat-based glucose monitoring device with multistage transdermal drug delivery module. Science Advances, 2017, 3, e1601314.	4.7	836

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130	Stretchable conductive polypyrrole films modified with dopaminated hyaluronic acid. <i>Materials Science and Engineering C</i> , 2017, 76, 295-300.	3.8	10
131	Biomimetic temperature-sensing layer for artificial skins. <i>Science Robotics</i> , 2017, 2, .	9.9	48
132	Ultrafast Paper Thermometers Based on a Green Sensing Ink. <i>ACS Sensors</i> , 2017, 2, 449-454.	4.0	37
133	Recent advances in wearable tactile sensors: Materials, sensing mechanisms, and device performance. <i>Materials Science and Engineering Reports</i> , 2017, 115, 1-37.	14.8	557
135	Non-Invasive Stimulation-Based Tactile Sensation for Upper-Extremity Prosthesis: A Review. <i>IEEE Sensors Journal</i> , 2017, 17, 2625-2635.	2.4	53
136	Electronic Skin with Multifunction Sensors Based on Thermosensation. <i>Advanced Materials</i> , 2017, 29, 1606151.	11.1	194
137	Stretchable electronic skin based on silver nanowire composite fiber electrodes for sensing pressure, proximity, and multidirectional strain. <i>Nanoscale</i> , 2017, 9, 3834-3842.	2.8	138
138	Programmable Nano-“Bio Interfaces for Functional Biointegrated Devices. <i>Advanced Materials</i> , 2017, 29, 1605529.	11.1	118
139	Ultrathin and Wearable Microtubular Epidermal Sensor for Real-Time Physiological Pulse Monitoring. <i>Advanced Materials Technologies</i> , 2017, 2, 1700016.	3.0	68
140	Flexible and transparent strain sensors based on super-aligned carbon nanotube films. <i>Nanoscale</i> , 2017, 9, 6716-6723.	2.8	108
141	Design and application of “J-shaped” stress-strain behavior in stretchable electronics: a review. <i>Lab on A Chip</i> , 2017, 17, 1689-1704.	3.1	140
142	3D customized and flexible tactile sensor using a piezoelectric nanofiber mat and sandwich-molded elastomer sheets. <i>Smart Materials and Structures</i> , 2017, 26, 045032.	1.8	27
143	A wearable strain sensor based on a carbonized nano-sponge/silicone composite for human motion detection. <i>Nanoscale</i> , 2017, 9, 6680-6685.	2.8	151
144	Transparent Flexible Multifunctional Nanostructured Architectures for Non-optical Readout, Proximity, and Pressure Sensing. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 15015-15021.	4.0	58
145	Solvent-free fabrication of biodegradable hot-film flow sensor for noninvasive respiratory monitoring. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 215401.	1.3	54
146	Printable elastic conductors by in situ formation of silver nanoparticles from silver flakes. <i>Nature Materials</i> , 2017, 16, 834-840.	13.3	578
147	A novel means of fabricating microporous structures for the dielectric layers of capacitive pressure sensor. <i>Microelectronic Engineering</i> , 2017, 179, 60-66.	1.1	55
148	Needs and Enabling Technologies for Stretchable Electronics Commercialization. <i>MRS Advances</i> , 2017, 2, 1721-1729.	0.5	11

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149	Flexible electronic eardrum. <i>Nano Research</i> , 2017, 10, 2683-2691.	5.8	35
150	Wearable Sensing Systems with Mechanically Soft Assemblies of Nanoscale Materials. <i>Advanced Materials Technologies</i> , 2017, 2, 1700053.	3.0	89
151	Design Guidelines for Sensor Locations on 3D Printed Prosthetic Hands. , 2017, , .		4
152	Multiple Hydrogen Bonding Enables the Self-Healing of Sensors for Human-Machine Interactions. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8795-8800.	7.2	398
153	Self-assembled three dimensional network designs for soft electronics. <i>Nature Communications</i> , 2017, 8, 15894.	5.8	325
154	The biology of skin wetness perception and its implications in manual function and for reproducing complex somatosensory signals in neuroprosthetics. <i>Journal of Neurophysiology</i> , 2017, 117, 1761-1775.	0.9	22
155	Multiple Hydrogen Bonding Enables the Self-Healing of Sensors for Human-Machine Interactions. <i>Angewandte Chemie</i> , 2017, 129, 8921-8926.	1.6	101
156	A review of invasive and non-invasive sensory feedback in upper limb prostheses. <i>Expert Review of Medical Devices</i> , 2017, 14, 439-447.	1.4	129
157	Simple Approach to High-Performance Stretchable Heaters Based on Kirigami Patterning of Conductive Paper for Wearable Thermo-therapy Applications. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 19612-19621.	4.0	119
158	Ultrastretchable, transparent triboelectric nanogenerator as electronic skin for biomechanical energy harvesting and tactile sensing. <i>Science Advances</i> , 2017, 3, e1700015.	4.7	920
159	Resistive electronic skin. <i>Journal of Materials Chemistry C</i> , 2017, 5, 5845-5866.	2.7	161
160	A highly sensitive graphene woven fabric strain sensor for wearable wireless musical instruments. <i>Materials Horizons</i> , 2017, 4, 477-486.	6.4	194
161	Advanced Materials for Health Monitoring with Skin-Based Wearable Devices. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700024.	3.9	221
162	Recent progress in flexible and wearable bio-electronics based on nanomaterials. <i>Nano Research</i> , 2017, 10, 1560-1583.	5.8	96
163	Fully printable, strain-engineered electronic wrap for customizable soft electronics. <i>Scientific Reports</i> , 2017, 7, 45328.	1.6	56
164	Bend, stretch, and touch: Locating a finger on an actively deformed transparent sensor array. <i>Science Advances</i> , 2017, 3, e1602200.	4.7	283
165	Omnidirectional Bending and Pressure Sensor Based on Stretchable CNT-PU Sponge. <i>Advanced Functional Materials</i> , 2017, 27, 1604434.	7.8	148
166	Wearable Force Touch Sensor Array Using a Flexible and Transparent Electrode. <i>Advanced Functional Materials</i> , 2017, 27, 1605286.	7.8	151

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167	Highly Stretchable, Hysteresis-Free Ionic Liquid-Based Strain Sensor for Precise Human Motion Monitoring. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 1770-1780.	4.0	331
168	Multi-Parametric Sensing Platforms Based on Nanoparticles. <i>Advanced Materials Technologies</i> , 2017, 2, 1600206.	3.0	44
169	An All-Silk-Derived Dual-Mode E-skin for Simultaneous Temperature-Pressure Detection. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 39484-39492.	4.0	210
170	Recent Progress of Self-Powered Sensing Systems for Wearable Electronics. <i>Small</i> , 2017, 13, 1701791.	5.2	223
171	An Omnidirectionally Stretchable Photodetector Based on Organic-Inorganic Heterojunctions. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 35958-35967.	4.0	49
172	A stretchable fiber nanogenerator for versatile mechanical energy harvesting and self-powered full-range personal healthcare monitoring. <i>Nano Energy</i> , 2017, 41, 511-518.	8.2	124
173	A super stretchable and sensitive strain sensor based on a carbon nanocoil network fabricated by a simple peeling-off approach. <i>Nanoscale</i> , 2017, 9, 16404-16411.	2.8	48
174	Stretchable Electrode Based on Laterally Combed Carbon Nanotubes for Wearable Energy Harvesting and Storage Devices. <i>Advanced Functional Materials</i> , 2017, 27, 1704353.	7.8	110
175	Selective photonic sintering of Ag flakes embedded in silicone elastomers to fabricate stretchable conductors. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11733-11740.	2.7	39
176	Nature-Inspired Structural Materials for Flexible Electronic Devices. <i>Chemical Reviews</i> , 2017, 117, 12893-12941.	23.0	578
177	Large-Area All-Textile Pressure Sensors for Monitoring Human Motion and Physiological Signals. <i>Advanced Materials</i> , 2017, 29, 1703700.	11.1	558
178	High-performance flexible BiCMOS electronics based on single-crystal Si nanomembrane. <i>Npj Flexible Electronics</i> , 2017, 1, .	5.1	36
179	Inorganic semiconducting materials for flexible and stretchable electronics. <i>Npj Flexible Electronics</i> , 2017, 1, .	5.1	144
180	Highly Sensitive, Flexible MEMS Based Pressure Sensor with Photoresist Insulation Layer. <i>Small</i> , 2017, 13, 1702422.	5.2	50
181	Highly sensitive, self-powered and wearable electronic skin based on pressure-sensitive nanofiber woven fabric sensor. <i>Scientific Reports</i> , 2017, 7, 12949.	1.6	144
182	Wearable Electrocardiogram Monitor Using Carbon Nanotube Electronics and Color-Tunable Organic Light-Emitting Diodes. <i>ACS Nano</i> , 2017, 11, 10032-10041.	7.3	197
183	Ultrathin Quantum Dot Display Integrated with Wearable Electronics. <i>Advanced Materials</i> , 2017, 29, 1700217.	11.1	187
184	Conformal Electronics Wrapped Around Daily Life Objects Using an Original Method: Water Transfer Printing. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 29424-29429.	4.0	51

#	ARTICLE	IF	CITATIONS
185	Stretchable Dual-Capacitor Multi-Sensor for Touch-Curvature-Pressure-Strain Sensing. <i>Scientific Reports</i> , 2017, 7, 10854.	1.6	37
186	Rubbery electronics and sensors from intrinsically stretchable elastomeric composites of semiconductors and conductors. <i>Science Advances</i> , 2017, 3, e1701114.	4.7	229
187	Mechanical Stability Analysis via Neutral Mechanical Plane for High-Performance Flexible Si Nanomembrane FDSOI Device. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700618.	1.9	9
188	Amorphous liquid metal electrodes enabled conformable electrochemical therapy of tumors. <i>Biomaterials</i> , 2017, 146, 156-167.	5.7	97
189	A Highly Stretchable Nanofiber-Based Electronic Skin with Pressure-, Strain-, and Flexion-Sensitive Properties for Health and Motion Monitoring. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 42951-42960.	4.0	147
190	Lab-on-Skin: A Review of Flexible and Stretchable Electronics for Wearable Health Monitoring. <i>ACS Nano</i> , 2017, 11, 9614-9635.	7.3	1,245
191	Flexible Bimodal Sensor for Simultaneous and Independent Perceiving of Pressure and Temperature Stimuli. <i>Advanced Materials Technologies</i> , 2017, 2, 1700183.	3.0	46
192	Implantable liquid metal-based flexible neural microelectrode array and its application in recovering animal locomotion functions. <i>Journal of Micromechanics and Microengineering</i> , 2017, 27, 104002.	1.5	65
193	A Superhydrophobic Smart Coating for Flexible and Wearable Sensing Electronics. <i>Advanced Materials</i> , 2017, 29, 1702517.	11.1	348
194	A flexible and highly sensitive capacitive pressure sensor based on conductive fibers with a microporous dielectric for wearable electronics. <i>Journal of Materials Chemistry C</i> , 2017, 5, 10068-10076.	2.7	123
195	An extremely simple macroscale electronic skin realized by deep machine learning. <i>Scientific Reports</i> , 2017, 7, 11061.	1.6	38
196	Hybrid 3D Printing of Soft Electronics. <i>Advanced Materials</i> , 2017, 29, 1703817.	11.1	501
197	Conducting Polymer Based Visual-Aided Smart Thermosensors on Arbitrary Substrates. <i>Advanced Functional Materials</i> , 2017, 27, 1702706.	7.8	23
198	Advanced carbon materials for flexible and wearable sensors. <i>Science China Materials</i> , 2017, 60, 1026-1062.	3.5	170
199	Stretchable Motion Memory Devices Based on Mechanical Hybrid Materials. <i>Advanced Materials</i> , 2017, 29, 1701780.	11.1	68
200	Graphene-Based Three-Dimensional Capacitive Touch Sensor for Wearable Electronics. <i>ACS Nano</i> , 2017, 11, 7950-7957.	7.3	270
201	Integration of graphene sensor with electrochromic device on modulus-gradient polymer for instantaneous strain visualization. <i>2D Materials</i> , 2017, 4, 035020.	2.0	19
202	Recent progresses on flexible tactile sensors. <i>Materials Today Physics</i> , 2017, 1, 61-73.	2.9	227

#	ARTICLE	IF	CITATIONS
203	A flexible, gigahertz, and free-standing thin film piezoelectric MEMS resonator with high figure of merit. Applied Physics Letters, 2017, 111, .	1.5	32
204	A wearable pressure and temperature sensor array using polysilicon thin film on polyimide. , 2017, , .		3
205	Investigating Limiting Factors in Stretchable All-Carbon Transistors for Reliable Stretchable Electronics. ACS Nano, 2017, 11, 7925-7937.	7.3	52
206	Passive and Space-Discriminative Ionic Sensors Based on Durable Nanocomposite Electrodes toward Sign Language Recognition. ACS Nano, 2017, 11, 8590-8599.	7.3	73
207	Bio-inspired interlocking random 3-D structures for tactile and thermal sensing. Scientific Reports, 2017, 7, 5834.	1.6	12
208	Experimental and Theoretical Studies of Serpentine Interconnects on Ultrathin Elastomers for Stretchable Electronics. Advanced Functional Materials, 2017, 27, 1702589.	7.8	111
209	Synthesis of a Soft Nanocomposite for Flexible, Wearable Bioelectronics. , 2017, , .		2
210	All-Graphene-Based Highly Flexible Noncontact Electronic Skin. ACS Applied Materials & Interfaces, 2017, 9, 44593-44601.	4.0	110
211	Crack-Enhanced Microfluidic Stretchable E-Skin Sensor. ACS Applied Materials & Interfaces, 2017, 9, 44678-44686.	4.0	54
212	Deterministic Line-Shape Programming of Silicon Nanowires for Extremely Stretchable Springs and Electronics. Nano Letters, 2017, 17, 7638-7646.	4.5	41
213	Polyurethane foam coated with a multi-walled carbon nanotube/polyaniline nanocomposite for a skin-like stretchable array of multi-functional sensors. NPG Asia Materials, 2017, 9, e448-e448.	3.8	90
214	Human eye-inspired soft optoelectronic device using high-density MoS ₂ -graphene curved image sensor array. Nature Communications, 2017, 8, 1664.	5.8	381
215	Development of a flexible and stretchable tactile sensor array with two different structures for robotic hand application. RSC Advances, 2017, 7, 48461-48465.	1.7	10
216	Highly stretchable metallic silver electrodes on poly(dimethylsiloxane) substrate. AIP Advances, 2017, 7, .	0.6	2
217	Omnidirectional Deformable Energy Textile for Human Joint Movement Compatible Energy Storage. ACS Applied Materials & Interfaces, 2017, 9, 41363-41370.	4.0	16
218	Electrical properties of AlGaIn/GaN HEMTs in stretchable geometries. Solid-State Electronics, 2017, 136, 36-42.	0.8	13
219	Recent Progress on Stretchable Electronic Devices with Intrinsically Stretchable Components. Advanced Materials, 2017, 29, 1603167.	11.1	367
220	Ultra-Wideband Multi-Dye-Sensitized Upconverting Nanoparticles for Information Security Application. Advanced Materials, 2017, 29, 1603169.	11.1	153

#	ARTICLE	IF	CITATIONS
221	A flexible self-powered T-ZnO/PVDF/fabric electronic-skin with multi-functions of tactile-perception, atmosphere-detection and self-clean. Nano Energy, 2017, 31, 37-48.	8.2	172
222	A System for Electrotactile Feedback Using Electronic Skin and Flexible Matrix Electrodes: Experimental Evaluation. IEEE Transactions on Haptics, 2017, 10, 162-172.	1.8	57
223	Wearable human-machine interface based on PVDF piezoelectric sensor. Transactions of the Institute of Measurement and Control, 2017, 39, 398-403.	1.1	56
224	Extremely Stretchable Strain Sensors Based on Conductive Self-Healing Dynamic Cross-Links Hydrogels for Human-Motion Detection. Advanced Science, 2017, 4, 1600190.	5.6	728
225	Flexible and highly sensitive multi-dimensional strain sensor with intersecting metal nanowire arrays. , 2017, , .		1
226	Remote tactile sensing system integrated with magnetic synapse. Scientific Reports, 2017, 7, 16963.	1.6	23
227	Nano-structured gold strain gauge arrays on PDMS for highly sensitive nems pressure sensor skin. , 2017, , .		2
228	Soft Prosthetic Forefinger Tactile Sensing via a String of Intact Single Mode Optical Fiber. IEEE Sensors Journal, 2017, 17, 7455-7459.	2.4	21
229	Distributed Sensing and Stimulation Systems for Sense of Touch Restoration in Prosthetics. , 2017, , .		11
230	Strain sensors on thermoplastic polyurethane films for lightweight epidermal sensing. , 2017, , .		0
231	Parametric Optimization of Lateral NIPIN Phototransistors for Flexible Image Sensors. Sensors, 2017, 17, 1774.	2.1	14
232	Smart Sensor Systems for Wearable Electronic Devices. Polymers, 2017, 9, 303.	2.0	185
233	Arrayed Force Sensors Made of Paper, Elastomer, and Hydrogel Particles. Micromachines, 2017, 8, 356.	1.4	6
234	Novel Tactile Sensor Technology and Smart Tactile Sensing Systems: A Review. Sensors, 2017, 17, 2653.	2.1	194
235	A 3D Computational Model of Transcutaneous Electrical Nerve Stimulation for Estimating \hat{A}^2 Tactile Nerve Fiber Excitability. Frontiers in Neuroscience, 2017, 11, 250.	1.4	16
236	Theoretical Study on Effect of Defective Connection to Reservoirs in an Atomic-Scale Conductor. Advances in Condensed Matter Physics, 2017, 2017, 1-6.	0.4	0
237	Mechanisms and Materials of Flexible and Stretchable Skin Sensors. Micromachines, 2017, 8, 69.	1.4	46
238	On neuromechanical approaches for the study of biological and robotic grasp and manipulation. Journal of NeuroEngineering and Rehabilitation, 2017, 14, 101.	2.4	21

#	ARTICLE	IF	CITATIONS
239	3D printed stretchable capacitive sensors for highly sensitive tactile and electrochemical sensing. <i>Nanotechnology</i> , 2018, 29, 185501.	1.3	57
242	GPS-Inspired Stretchable Self-Powered Electronic Skin. <i>IEEE Nanotechnology Magazine</i> , 2018, 17, 460-466.	1.1	6
243	Biaxially Stretchable Fully Elastic Transistors Based on Rubbery Semiconductor Nanocomposites. <i>Advanced Materials Technologies</i> , 2018, 3, 1800043.	3.0	39
244	Low-power carbon nanotube-based integrated circuits that can be transferred to biological surfaces. <i>Nature Electronics</i> , 2018, 1, 237-245.	13.1	86
245	Interface-Controlled Conductive Fibers for Wearable Strain Sensors and Stretchable Conducting Wires. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 14087-14096.	4.0	87
246	Flexible quantum dot light-emitting diodes for next-generation displays. <i>Npj Flexible Electronics</i> , 2018, 2, .	5.1	261
247	A Building Brick Principle to Create Transparent Composite Films with Multicolor Emission and Self-Healing Function. <i>Small</i> , 2018, 14, e1800315.	5.2	21
248	Flexible Ferroelectric Sensors with Ultrahigh Pressure Sensitivity and Linear Response over Exceptionally Broad Pressure Range. <i>ACS Nano</i> , 2018, 12, 4045-4054.	7.3	360
249	Deformable conductors for human-machine interface. <i>Materials Today</i> , 2018, 21, 508-526.	8.3	163
250	Ionotactile Stimulation: Nonvolatile Ionic Gels for Human-Machine Interfaces. <i>ACS Omega</i> , 2018, 3, 662-666.	1.6	24
251	Organic/inorganic hybrid low-voltage flexible oxide transistor gated with biodegradable electrolyte. <i>Organic Electronics</i> , 2018, 56, 82-88.	1.4	9
252	Fracture-Induced Mechanoelectrical Sensitivities of Paper-Based Nanocomposites. <i>Advanced Materials Technologies</i> , 2018, 3, 1700266.	3.0	6
253	A semi-permanent and durable nanoscale-crack-based sensor by on-demand healing. <i>Nanoscale</i> , 2018, 10, 4354-4360.	2.8	52
254	Highly flexible, wearable, and disposable cardiac biosensors for remote and ambulatory monitoring. <i>Npj Digital Medicine</i> , 2018, 1, 2.	5.7	157
255	Skin-inspired highly stretchable and conformable matrix networks for multifunctional sensing. <i>Nature Communications</i> , 2018, 9, 244.	5.8	1,034
256	Highly Sensitive and Ultrastable Skin Sensors for Biopressure and Bioforce Measurements Based on Hierarchical Microstructures. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 4086-4094.	4.0	83
257	Tough and Water-Insensitive Self-Healing Elastomer for Robust Electronic Skin. <i>Advanced Materials</i> , 2018, 30, e1706846.	11.1	798
258	Rehealable, fully recyclable, and malleable electronic skin enabled by dynamic covalent thermoset nanocomposite. <i>Science Advances</i> , 2018, 4, eaaq0508.	4.7	375

#	ARTICLE	IF	CITATIONS
259	Engineering in-plane silicon nanowire springs for highly stretchable electronics. <i>Journal of Semiconductors</i> , 2018, 39, 011001.	2.0	16
260	Hybrid functional microfibers for textile electronics and biosensors. <i>Journal of Semiconductors</i> , 2018, 39, 011009.	2.0	4
261	Highly Exfoliated MWNT/rGO Ink-Wrapped Polyurethane Foam for Piezoresistive Pressure Sensor Applications. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 5185-5195.	4.0	208
262	A wearable pressure sensor based on ultra-violet/ozone microstructured carbon nanotube/polydimethylsiloxane arrays for electronic skins. <i>Nanotechnology</i> , 2018, 29, 115502.	1.3	94
263	Helix Electrohydrodynamic Printing (HE-Printing). , 2018, , 67-88.		0
264	Recent Developments in Graphene-Based Tactile Sensors and eSkins. <i>Advanced Materials Technologies</i> , 2018, 3, 1700248.	3.0	153
265	Carbon Nanofiber versus Graphene-Based Stretchable Capacitive Touch Sensors for Artificial Electronic Skin. <i>Advanced Science</i> , 2018, 5, 1700587.	5.6	100
266	Three-dimensional ultraflexible triboelectric nanogenerator made by 3D printing. <i>Nano Energy</i> , 2018, 45, 380-389.	8.2	178
267	Ultrasensitive Flexible Proximity Sensor Based on Organic Crystal for Location Detection. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 2785-2792.	4.0	51
268	3D-Integrated and Multifunctional All-Soft Physical Microsystems Based on Liquid Metal for Electronic Skin Applications. <i>Advanced Electronic Materials</i> , 2018, 4, 1700434.	2.6	59
269	Bioinspired Artificial Eyes: Optic Components, Digital Cameras, and Visual Prostheses. <i>Advanced Functional Materials</i> , 2018, 28, 1705202.	7.8	174
270	Transparent and Self-Powered Multistage Sensation Matrix for Mechanosensation Application. <i>ACS Nano</i> , 2018, 12, 254-262.	7.3	81
271	Micro-patterned graphene-based sensing skins for human physiological monitoring. <i>Nanotechnology</i> , 2018, 29, 105503.	1.3	21
272	Enzyme-Based Glucose Sensor: From Invasive to Wearable Device. <i>Advanced Healthcare Materials</i> , 2018, 7, e1701150.	3.9	483
273	Highly Sensitive and Very Stretchable Strain Sensor Based on a Rubbery Semiconductor. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 5000-5006.	4.0	103
274	Bioinspired Universal Flexible Elastomer-Based Microchannels. <i>Small</i> , 2018, 14, e1702170.	5.2	31
275	Biocompatible, self-healing, highly stretchable polyacrylic acid/reduced graphene oxide nanocomposite hydrogel sensors via mussel-inspired chemistry. <i>Carbon</i> , 2018, 136, 63-72.	5.4	282
276	Highly Sensitive and Optically Transparent Resistive Pressure Sensors Based on a Graphene/Polyaniline-Embedded PVB Film. <i>IEEE Transactions on Electron Devices</i> , 2018, 65, 1939-1945.	1.6	18

#	ARTICLE	IF	CITATIONS
278	A supramolecular biomimetic skin combining a wide spectrum of mechanical properties and multiple sensory capabilities. <i>Nature Communications</i> , 2018, 9, 1134.	5.8	411
279	Roll-to-roll processing of film substrates for hybrid integrated flexible electronics. <i>Flexible and Printed Electronics</i> , 2018, 3, 014002.	1.5	68
280	Soft electronics on asymmetrical porous conducting membranes by molecular layer-by-layer assembly. <i>Sensors and Actuators B: Chemical</i> , 2018, 254, 916-925.	4.0	17
281	2.5/3D dynamically stretchable and permanently shaped electronic circuits. <i>Microsystem Technologies</i> , 2018, 24, 831-853.	1.2	9
282	Potential applications of human artificial skin and electronic skin (e-skin): a review. <i>Bioinspired, Biomimetic and Nanobiomaterials</i> , 2018, 7, 53-64.	0.7	26
283	Nanomaterials for bioelectronics and integrated medical systems. <i>Korean Journal of Chemical Engineering</i> , 2018, 35, 1-11.	1.2	76
284	Device-assisted transdermal drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2018, 127, 35-45.	6.6	237
285	A Self-Healable, Highly Stretchable, and Solution Processable Conductive Polymer Composite for Ultrasensitive Strain and Pressure Sensing. <i>Advanced Functional Materials</i> , 2018, 28, 1705551.	7.8	387
286	Sliced graphene foam films for dual-functional wearable strain sensors and switches. <i>Nanoscale Horizons</i> , 2018, 3, 35-44.	4.1	84
287	Implantable Technology : History, Controversies, and Social Implications [Commentary]. <i>IEEE Technology and Society Magazine</i> , 2018, 37, 35-45.	0.6	6
288	Stretchable, Transparent, and Self-Patterned Hydrogel-Based Pressure Sensor for Human Motions Detection. <i>Advanced Functional Materials</i> , 2018, 28, 1802576.	7.8	430
289	Chameleon Skin Inspired Au Nanodisk Patterned Strain Responsive PDMS Film. , 2018, , .		1
290	Materials and Structures toward Soft Electronics. <i>Advanced Materials</i> , 2018, 30, e1801368.	11.1	445
291	Smart Materials for Wearable Healthcare Devices. , 0, , .		4
292	Ultrastretchable carbon nanotube composite electrodes for flexible lithium-ion batteries. <i>Nanoscale</i> , 2018, 10, 19972-19978.	2.8	46
293	Recent Developments for Flexible Pressure Sensors: A Review. <i>Micromachines</i> , 2018, 9, 580.	1.4	206
294	A hierarchically patterned, bioinspired e-skin able to detect the direction of applied pressure for robotics. <i>Science Robotics</i> , 2018, 3, .	9.9	568
295	Simple and Fast Compensation of sEMG Interface Rotation for Robust Hand Motion Recognition. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018, 26, 2397-2406.	2.7	32

#	ARTICLE	IF	CITATIONS
296	Recent Advances in Smart Wearable Sensing Systems. <i>Advanced Materials Technologies</i> , 2018, 3, 1800444.	3.0	128
297	An overview of healthcare monitoring by flexible electronics. <i>Science China: Physics, Mechanics and Astronomy</i> , 2018, 61, 1.	2.0	11
298	Bendable Single Crystal Silicon Nanomembrane Thin Film Transistors with Improved Low-Temperature Processed Metal/n-Si Ohmic Contact by Inserting TiO ₂ Interlayer. <i>Nanomaterials</i> , 2018, 8, 1060.	1.9	4
299	Stretchability of Archimedean-Spiral Interconnects Design. , 2018, , .		3
300	Feel-Good Robotics: Requirements on Touch for Embodiment in Assistive Robotics. <i>Frontiers in Neurorobotics</i> , 2018, 12, 84.	1.6	50
301	Evaluation of Nanoparticle Inks on Flexible and Stretchable Substrates for Biocompatible Application. , 2018, , .		4
302	Stretchable capacitive fabric electronic skin woven by electrospun nanofiber coated yarns for detecting tactile and multimodal mechanical stimuli. <i>Journal of Materials Chemistry C</i> , 2018, 6, 12981-12991.	2.7	95
303	Effect of contact material and ambient humidity on the performance of MWCNT/PDMS multimodal deformation sensors. <i>Sensors and Actuators A: Physical</i> , 2018, 283, 1-8.	2.0	8
304	Long side-chain grafting imparts intrinsic adhesiveness to poly(thiophene phenylene) conjugated polymer. <i>European Polymer Journal</i> , 2018, 109, 237-247.	2.6	7
305	A Flexible Wearable Pressure Sensor with Bioinspired Microcrack and Interlocking for Full-Range Human-Machine Interfacing. <i>Small</i> , 2018, 14, e1803018.	5.2	156
306	Compliant multi-layer tactile sensing for enhanced identification of human touch. <i>Smart Materials and Structures</i> , 2018, 27, 125009.	1.8	11
307	Blending Electronics with the Human Body: A Pathway toward a Cybernetic Future. <i>Advanced Science</i> , 2018, 5, 1700931.	5.6	83
308	Iono-Elastomer-Based Wearable Strain Sensor with Real-Time Thermomechanical Dual Response. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 32435-32443.	4.0	27
309	Alignment-Free Liquid-Capsule Pressure Sensor for Cardiovascular Monitoring. <i>Advanced Functional Materials</i> , 2018, 28, 1805045.	7.8	52
310	Mechano-regulated metal-organic framework nanofilm for ultrasensitive and anti-jamming strain sensing. <i>Nature Communications</i> , 2018, 9, 3813.	5.8	57
311	Plasma surface modification of polymers for sensor applications. <i>Journal of Materials Chemistry B</i> , 2018, 6, 6515-6533.	2.9	43
312	Design and Integration of an Inexpensive Wearable Mechanotactile Feedback System for Myoelectric Prostheses. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2018, 6, 1-11.	2.2	38
313	Pressure/Temperature Sensing Bimodal Electronic Skin with Stimulus Discriminability and Linear Sensitivity. <i>Advanced Materials</i> , 2018, 30, e1803388.	11.1	271

#	ARTICLE	IF	CITATIONS
314	Stretchable and Washable Strain Sensor Based on Cracking Structure for Human Motion Monitoring. <i>Scientific Reports</i> , 2018, 8, 13241.	1.6	101
315	Extremely Stretchable, Stable, and Durable Strain Sensors Based on Double-Network Organogels. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 32640-32648.	4.0	107
316	A Highly Sensitive Force Sensor with Fast Response Based on Interlocked Arrays of Indium Tin Oxide Nanosprings toward Human Tactile Perception. <i>Advanced Functional Materials</i> , 2018, 28, 1804132.	7.8	36
317	IPMC Sensor Integrated Smart Glove for Pulse Diagnosis, Braille Recognition, and Human-Computer Interaction. <i>Advanced Materials Technologies</i> , 2018, 3, 1800257.	3.0	43
318	An Omni-Healable and Highly Sensitive Capacitive Pressure Sensor with Microarray Structure. <i>Chemistry - A European Journal</i> , 2018, 24, 16823-16832.	1.7	49
319	Laser-microengineered flexible electrodes with enhanced sensitivity for wearable pressure sensors. <i>Sensors and Actuators A: Physical</i> , 2018, 281, 124-129.	2.0	31
320	Cut-and-Paste Transferrable Pressure Sensing Cartridge Films. <i>Chemistry of Materials</i> , 2018, 30, 6410-6419.	3.2	13
321	3D-Structured Stretchable Strain Sensors for Out-of-Plane Force Detection. <i>Advanced Materials</i> , 2018, 30, e1707285.	11.1	86
322	High-resolution flexible temperature sensor based graphite-filled polyethylene oxide and polyvinylidene fluoride composites for body temperature monitoring. <i>Sensors and Actuators A: Physical</i> , 2018, 278, 1-10.	2.0	60
323	Highly Stretchable and Transparent Thermistor Based on Self-Healing Double Network Hydrogel. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 19097-19105.	4.0	168
324	Stretchable Transparent Electrodes with Solution-Processed Regular Metal Mesh for an Electroluminescent Light-Emitting Film. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 21009-21017.	4.0	53
325	Reliable peripheral anchor-assisted transfer printing of ultrathin SiO ₂ for a transparent and flexible IGZO-based inverter. <i>Microelectronic Engineering</i> , 2018, 197, 15-22.	1.1	5
326	Ultrahigh-Sensitivity Piezoresistive Pressure Sensors for Detection of Tiny Pressure. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 20826-20834.	4.0	142
327	Capacitively Coupled Hybrid Ion Gel and Carbon Nanotube Thin-Film Transistors for Low Voltage Flexible Logic Circuits. <i>Advanced Functional Materials</i> , 2018, 28, 1802610.	7.8	37
328	A fully verified theoretical analysis of strain-photonic coupling for quantum wells embedded in wavy nanoribbons. <i>Nanoscale</i> , 2018, 10, 12657-12664.	2.8	6
329	Cracking effects in squashable and stretchable thin metal films on PDMS for flexible microsystems and electronics. <i>Scientific Reports</i> , 2018, 8, 9492.	1.6	47
330	Graphene Platelets and Their Polymer Composites: Fabrication, Structure, Properties, and Applications. <i>Advanced Functional Materials</i> , 2018, 28, 1706705.	7.8	183
331	Hybrid porous micro structured finger skin inspired self-powered electronic skin system for pressure sensing and sliding detection. <i>Nano Energy</i> , 2018, 51, 496-503.	8.2	131

#	ARTICLE	IF	CITATIONS
332	Microporous Polypyrrole-Coated Graphene Foam for High-Performance Multifunctional Sensors and Flexible Supercapacitors. <i>Advanced Functional Materials</i> , 2018, 28, 1707013.	7.8	195
333	An Ultradurable and Uniform Cu Electrode by Blending Carbon Nanotube Fillers in Copper-Based Metal-Organic Decomposition Ink for Flexible Printed Electronics. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800502.	1.9	15
334	Graphene-Based Portable, Flexible, and Wearable Sensing Platforms: An Emerging Trend for Health Care and Biomedical Surveillance. , 2018, , 307-338.		11
335	Potential of Graphene for Miniature Sensors and Conducting Devices for Biomedical Applications. , 2018, , .		0
336	Large-Area, Ultrathin Metal-Oxide Semiconductor Nanoribbon Arrays Fabricated by Chemical Lift-Off Lithography. <i>Nano Letters</i> , 2018, 18, 5590-5595.	4.5	27
337	Graphene-based cellular materials with extremely low density and high pressure sensitivity based on self-assembled graphene oxide liquid crystals. <i>Journal of Materials Chemistry C</i> , 2018, 6, 8717-8725.	2.7	25
338	A Highly Sensitive Capacitive-type Strain Sensor Using Wrinkled Ultrathin Gold Films. <i>Nano Letters</i> , 2018, 18, 5610-5617.	4.5	212
339	Mexican-Hat-Like Response in a Flexible Tactile Sensor Using a Magnetorheological Elastomer. <i>Sensors</i> , 2018, 18, 587.	2.1	44
340	Stretchable Tactile and Bio-potential Sensors for Human-Machine Interaction: A Review. <i>Lecture Notes in Computer Science</i> , 2018, , 155-163.	1.0	3
341	Ionic Gels and Their Applications in Stretchable Electronics. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800246.	2.0	112
342	Hierarchically distributed microstructure design of haptic sensors for personalized fingertip mechanosensational manipulation. <i>Materials Horizons</i> , 2018, 5, 920-931.	6.4	37
343	Flexible and Stretchable Bio-Integrated Electronics Based on Carbon Nanotube and Graphene. <i>Materials</i> , 2018, 11, 1163.	1.3	54
344	Flexible and Stretchable Smart Display: Materials, Fabrication, Device Design, and System Integration. <i>Advanced Functional Materials</i> , 2018, 28, 1801834.	7.8	357
345	Natural Plant Materials as Dielectric Layer for Highly Sensitive Flexible Electronic Skin. <i>Small</i> , 2018, 14, e1801657.	5.2	153
346	Transparent, Adhesive, and Conductive Hydrogel for Soft Bioelectronics Based on Light-Transmitting Polydopamine-Doped Polypyrrole Nanofibrils. <i>Chemistry of Materials</i> , 2018, 30, 5561-5572.	3.2	331
347	Stretchable, Transparent, Tough, Ultrathin, and Self-limiting Skin-like Substrate for Stretchable Electronics. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 27297-27307.	4.0	38
348	Soft Material-Enabled, Flexible Hybrid Electronics for Medicine, Healthcare, and Human-Machine Interfaces. <i>Materials</i> , 2018, 11, 187.	1.3	166
349	Liquid Metal Enabled Electrobiography: A New Frontier to Tackle Disease Challenges. <i>Micromachines</i> , 2018, 9, 360.	1.4	11

#	ARTICLE	IF	CITATIONS
350	Toward Perceptive Soft Robots: Progress and Challenges. <i>Advanced Science</i> , 2018, 5, 1800541.	5.6	468
351	Stretchable Tattoo-Like Heater with On-Site Temperature Feedback Control. <i>Micromachines</i> , 2018, 9, 170.	1.4	23
352	Recent Advances in Tactile Sensing Technology. <i>Micromachines</i> , 2018, 9, 321.	1.4	67
353	Modeling Electronic Skin Response to Normal Distributed Force. <i>Sensors</i> , 2018, 18, 459.	2.1	4
354	Stretchable, Flexible, Scalable Smart Skin Sensors for Robotic Position and Force Estimation. <i>Sensors</i> , 2018, 18, 953.	2.1	24
355	Wafer-recyclable, environment-friendly transfer printing for large-scale thin-film nanoelectronics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E7236-E7244.	3.3	43
356	Design of a Bioinspired Robotic Hand: Magnetic Synapse Sensor Integration for a Robust Remote Tactile Sensing. <i>IEEE Robotics and Automation Letters</i> , 2018, 3, 3545-3552.	3.3	12
357	Recent advances in organic sensors for health self-monitoring systems. <i>Journal of Materials Chemistry C</i> , 2018, 6, 8569-8612.	2.7	110
358	Electrical Properties of Liquid Metal in Making Biomedical Soft Electronics. <i>Springer Series in Biomaterials Science and Engineering</i> , 2018, , 53-82.	0.7	1
359	Liquid Metal as Electronic Medium to Recover Damaged Nervesâ€™ Function. <i>Springer Series in Biomaterials Science and Engineering</i> , 2018, , 187-214.	0.7	0
360	Wireless, intraoral hybrid electronics for real-time quantification of sodium intake toward hypertension management. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 5377-5382.	3.3	137
361	Recent progress in flexible pressure sensor arrays: from design to applications. <i>Journal of Materials Chemistry C</i> , 2018, 6, 11878-11892.	2.7	194
362	Photosynthetic Bioelectronic Sensors for Touch Perception, UVâ€Detection, and Nanopower Generation: Toward Selfâ€Powered Eâ€Skins. <i>Advanced Materials</i> , 2018, 30, e1802290.	11.1	62
363	Stretchable electronics on another level. <i>Nature Electronics</i> , 2018, 1, 440-441.	13.1	15
364	Thermosensory micromapping of warm and cold sensitivity across glabrous and hairy skin of male and female hands and feet. <i>Journal of Applied Physiology</i> , 2018, 125, 723-736.	1.2	52
365	Wearable and Implantable Epidermal Paper-Based Electronics. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 31061-31068.	4.0	55
366	Graphene field-effect transistors: the road to bioelectronics. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 493001.	1.3	28
367	Functional biomaterials towards flexible electronics and sensors. <i>Biosensors and Bioelectronics</i> , 2018, 119, 237-251.	5.3	139

#	ARTICLE	IF	CITATIONS
368	Single-Crack-Activated Ultrasensitive Impedance Strain Sensor. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800616.	1.9	21
369	All-in-one piezoresistive-sensing patch integrated with micro-supercapacitor. <i>Nano Energy</i> , 2018, 53, 189-197.	8.2	79
370	Artificial Soft Elastic Media with Periodic Hard Inclusions for Tailoring Strain-Sensitive Thin-Film Responses. <i>Advanced Materials</i> , 2018, 30, e1802190.	11.1	6
371	Multiscale nanowire-microfluidic hybrid strain sensors with high sensitivity and stretchability. <i>Npj Flexible Electronics</i> , 2018, 2, .	5.1	64
372	Soft human-machine interfaces: design, sensing and stimulation. <i>International Journal of Intelligent Robotics and Applications</i> , 2018, 2, 313-338.	1.6	55
373	A Smart Artificial Finger with Multisensations of Matter, Temperature, and Proximity. <i>Advanced Materials Technologies</i> , 2018, 3, 1800056.	3.0	24
374	Wearables in Medicine. <i>Advanced Materials</i> , 2018, 30, e1706910.	11.1	358
375	Piezoresistive E-Skin Sensors Produced with Laser Engraved Molds. <i>Advanced Electronic Materials</i> , 2018, 4, 1800182.	2.6	56
376	Stretchable Ionics – A Promising Candidate for Upcoming Wearable Devices. <i>Advanced Materials</i> , 2018, 30, e1704403.	11.1	234
377	Biomechano-Interactive Materials and Interfaces. <i>Advanced Materials</i> , 2018, 30, e1800572.	11.1	93
378	Making a Socially Assistive Robot Companion Touch Sensitive. <i>Lecture Notes in Computer Science</i> , 2018, , 476-488.	1.0	2
379	Prosthesis with neuromorphic multilayered e-dermis perceives touch and pain. <i>Science Robotics</i> , 2018, 3, .	9.9	280
380	A flexible sensing system capable of sensations imitation and motion monitoring with reliable encapsulation. <i>Sensors and Actuators A: Physical</i> , 2018, 279, 424-432.	2.0	3
381	Laser-patterned metallic interconnections for all stretchable organic electrochemical transistors. <i>Scientific Reports</i> , 2018, 8, 8477.	1.6	48
382	A wet-chemistry-based hydrogel sensing platform for 2D imaging of pressure, chemicals and temperature. <i>Nanoscale</i> , 2018, 10, 13581-13588.	2.8	10
383	Nanomaterials-based flexible and stretchable bioelectronics. <i>MRS Bulletin</i> , 2019, 44, 643-656.	1.7	30
384	Ultrasensitive Charged Object Detection Based on Rubrene Crystal Sensor. <i>IEEE Transactions on Electron Devices</i> , 2019, 66, 3139-3143.	1.6	6
385	Monolithic Integration of Silicon Nanowire Networks as a Soft Wafer for Highly Stretchable and Transparent Electronics. <i>Nano Letters</i> , 2019, 19, 6235-6243.	4.5	32

#	ARTICLE	IF	CITATIONS
386	An ultraflexible organic differential amplifier for recording electrocardiograms. <i>Nature Electronics</i> , 2019, 2, 351-360.	13.1	114
387	Three-dimensional out-of-plane geometric engineering of thin films for stretchable electronics: a brief review. <i>Thin Solid Films</i> , 2019, 688, 137435.	0.8	15
388	Electronic Skin to Feel "Pain" Detecting "Prick" and "Hot" Pain Sensations. <i>Soft Robotics</i> , 2019, 6, 745-759.	4.6	9
389	Metal oxide semiconductor nanomembrane-based soft unnoticeable multifunctional electronics for wearable human-machine interfaces. <i>Science Advances</i> , 2019, 5, eaav9653.	4.7	213
390	A Deformable Interface for Human Touch Recognition Using Stretchable Carbon Nanotube Dielectric Elastomer Sensors and Deep Neural Networks. <i>Soft Robotics</i> , 2019, 6, 611-620.	4.6	35
391	A neuro-inspired artificial peripheral nervous system for scalable electronic skins. <i>Science Robotics</i> , 2019, 4, .	9.9	203
392	Transparent and stretchable bimodal triboelectric nanogenerators with hierarchical micro-nanostructures for mechanical and water energy harvesting. <i>Nano Energy</i> , 2019, 64, 103904.	8.2	85
393	Soft elastomeric composite materials with skin-inspired mechanical properties for stretchable electronic circuits. <i>Lab on A Chip</i> , 2019, 19, 2709-2717.	3.1	25
394	A stretchable and breathable form of epidermal device based on elastomeric nanofibre textiles and silver nanowires. <i>Journal of Materials Chemistry C</i> , 2019, 7, 9748-9755.	2.7	37
395	Cross-Talk Compensation in Low-Cost Resistive Pressure Matrix Sensors. , 2019, , .		4
396	Recent progress in stretchable organic field-effect transistors. <i>Science China Technological Sciences</i> , 2019, 62, 1255-1276.	2.0	18
397	Water-proof and thermally inert flexible pressure sensors based on zero temperature coefficient of resistance hybrid films. <i>Journal of Materials Chemistry C</i> , 2019, 7, 9648-9654.	2.7	20
398	Flexible and Stretchable Electronic Skin with High Durability and Shock Resistance via Embedded 3D Printing Technology for Human Activity Monitoring and Personal Healthcare. <i>Advanced Materials Technologies</i> , 2019, 4, 1900315.	3.0	64
399	Deformable and Stretchable Electrodes for Soft Electronic Devices. <i>Macromolecular Research</i> , 2019, 27, 625-639.	1.0	32
400	Laser-Processed Nature-Inspired Deformable Structures for Breathable and Reusable Electrophysiological Sensors toward Controllable Home Electronic Appliances and Psychophysiological Stress Monitoring. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 28387-28396.	4.0	42
401	Highly Stable and Stretchable Conductive Films through Thermal-Radiation-Assisted Metal Encapsulation. <i>Advanced Materials</i> , 2019, 31, e1901360.	11.1	96
402	A Wearable Sensor Using Structured Silver-Particle Reinforced PDMS for Radial Arterial Pulse Wave Monitoring. <i>Advanced Healthcare Materials</i> , 2019, 8, e1900633.	3.9	36
403	Highly Stretchable Metallic Nanowire Networks Reinforced by the Underlying Randomly Distributed Elastic Polymer Nanofibers via Interfacial Adhesion Improvement. <i>Advanced Materials</i> , 2019, 31, e1903446.	11.1	106

#	ARTICLE	IF	CITATIONS
404	Flexible Tactile Electronic Skin Sensor with 3D Force Detection Based on Porous CNTs/PDMS Nanocomposites. Nano-Micro Letters, 2019, 11, 57.	14.4	126
405	Flexible Graphene, Graphene Oxide, and Carbon Nanotube-Based Supercapacitors and Batteries. Annalen Der Physik, 2019, 531, 1800507.	0.9	44
406	Micro/Nanoscale 3D Assembly by Rolling, Folding, Curving, and Buckling Approaches. Advanced Materials, 2019, 31, e1901895.	11.1	84
407	Electronic Skin for Closed-Loop Systems. ACS Nano, 2019, 13, 12287-12293.	7.3	103
408	Fundamentals and applications of ion migration induced polymer sensor detecting bending, pressure and shear force. IEEE Instrumentation and Measurement Magazine, 2019, 22, 13-23.	1.2	6
409	Stick-On Large Strain Sensors for Soft Robots. Advanced Materials Interfaces, 2019, 6, 1900985.	1.9	79
410	Stretchable ferroelectric field-effect-transistor with multi-level storage capacity and photo-modulated resistance. Applied Physics Letters, 2019, 115, .	1.5	18
411	Devices for promising applications. , 2019, , 247-314.		0
412	Large-Area Soft e-Skin: The Challenges Beyond Sensor Designs. Proceedings of the IEEE, 2019, 107, 2016-2033.	16.4	214
413	Leather-Based Strain Sensor with Hierarchical Structure for Motion Monitoring. Advanced Materials Technologies, 2019, 4, 1900442.	3.0	37
414	A Flexible Strain Sensor of Ba(Ti, Nb)O ₃ /Mica with a Broad Working Temperature Range. Advanced Materials Technologies, 2019, 4, 1900578.	3.0	19
415	Biomimetic Tactile Sensors with Bilayer Fingerprint Ridges Demonstrating Texture Recognition. Micromachines, 2019, 10, 642.	1.4	16
416	Design, mechanics, and operation of spiral-interconnect based networked sensor for stretchable electronics. Applied Physics Letters, 2019, 115, .	1.5	8
417	Multifunctional and High-Sensitive Sensor Capable of Detecting Humidity, Temperature, and Flow Stimuli Using an Integrated Microheater. ACS Applied Materials & Interfaces, 2019, 11, 43383-43392.	4.0	64
418	Effect of glycerol on the mechanical and temperature-sensing properties of pectin films. Applied Physics Letters, 2019, 115, .	1.5	11
419	Monolithic Solder-On Nanoporous Si-Cu Contacts for Stretchable Silicone Composite Sensors. ACS Applied Materials & Interfaces, 2019, 11, 47577-47586.	4.0	8
420	Fiber-Based Piezoresistive Wearable Sensor for Knittable Tactile Sensing. , 2019, , .		1
421	Flexible Piezoresistive Sensor with the Microarray Structure Based on Self-Assembly of Multi-Walled Carbon Nanotubes. Sensors, 2019, 19, 4985.	2.1	21

#	ARTICLE	IF	CITATIONS
422	Templateâ€Electrodeposited and Imprintâ€Transferred Microscale Metalâ€Mesh Transparent Electrodes for Flexible and Stretchable Electronics. <i>Advanced Engineering Materials</i> , 2019, 21, 1900723.	1.6	31
423	Stretchable, Patchâ€Type Calorieâ€Expenditure Measurement Device Based on Popâ€Up Shaped Nanoscale Crackâ€Based Sensor. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801593.	3.9	21
424	A Low-Power, Single-Chip Electronic Skin Interface for Prosthetic Applications. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2019, 13, 1186-1200.	2.7	6
425	Electrospun Ionic Nanofiber Membrane-Based Fast and Highly Sensitive Capacitive Pressure Sensor. <i>IEEE Access</i> , 2019, 7, 139984-139993.	2.6	8
426	A Multisensory Tactile System for Robotic Hands to Recognize Objects. <i>Advanced Materials Technologies</i> , 2019, 4, 1900602.	3.0	29
427	Graphene Aerogel Broken to Fragments for a Piezoresistive Pressure Sensor with a Higher Sensitivity. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 33165-33172.	4.0	58
428	Soft-packaged sensory glove system for human-like natural interaction and control of prosthetic hands. <i>NPG Asia Materials</i> , 2019, 11, .	3.8	30
429	Opportunity of Metallic Glass in Soft Electronics. , 2019, , .		0
430	Tactile Sensors for Advanced Intelligent Systems. <i>Advanced Intelligent Systems</i> , 2019, 1, 1900090.	3.3	80
431	A transparent, stretchable, stable, self-adhesive ionogel-based strain sensor for human motion monitoring. <i>Journal of Materials Chemistry C</i> , 2019, 7, 11244-11250.	2.7	90
432	One-step growth of large-area silicon nanowire fabrics for high-performance multifunctional wearable sensors. <i>Nano Research</i> , 2019, 12, 2723-2728.	5.8	11
433	Ultra-robust wide-range pressure sensor with fast response based on polyurethane foam doubly coated with conformal silicone rubber and CNT/TPU nanocomposites islands. <i>Composites Part B: Engineering</i> , 2019, 177, 107364.	5.9	82
434	Flexible graphene photodetectors for wearable fitness monitoring. <i>Science Advances</i> , 2019, 5, eaaw7846.	4.7	186
435	Influence of Acceptor Type and Polymer Molecular Weight on the Mechanical Properties of Polymer Solar Cells. <i>Chemistry of Materials</i> , 2019, 31, 9057-9069.	3.2	102
436	A flexible capacitive sensor based on the electrospun PVDF nanofiber membrane with carbon nanotubes. <i>Sensors and Actuators A: Physical</i> , 2019, 299, 111579.	2.0	94
437	Transparent stretchable capacitive touch sensor grid using ionic liquid electrodes. <i>Extreme Mechanics Letters</i> , 2019, 33, 100574.	2.0	11
438	Fabrication of highly pressure-sensitive, hydrophobic, and flexible 3D carbon nanofiber networks by electrospinning for human physiological signal monitoring. <i>Nanoscale</i> , 2019, 11, 5942-5950.	2.8	88
439	Using Artificial Skin Devices as Skin Replacements: Insights into Superficial Treatment. <i>Small</i> , 2019, 15, e1805453.	5.2	53

#	ARTICLE	IF	CITATIONS
440	Ultra-flexible perceptual photonic-skin by using optical fiber as artificial mechanoreceptor. <i>Microsystem Technologies</i> , 2019, 25, 4341-4347.	1.2	3
441	Emerging Technologies of Flexible Pressure Sensors: Materials, Modeling, Devices, and Manufacturing. <i>Advanced Functional Materials</i> , 2019, 29, 1808509.	7.8	316
442	Fully rubbery integrated electronics from high effective mobility intrinsically stretchable semiconductors. <i>Science Advances</i> , 2019, 5, eaav5749.	4.7	117
443	Hybrid carbon nanostructured fibers: stepping stone for intelligent textile-based electronics. <i>Nanoscale</i> , 2019, 11, 3046-3101.	2.8	57
444	Ultra-stretchable wearable strain sensors based on skin-inspired adhesive, tough and conductive hydrogels. <i>Chemical Engineering Journal</i> , 2019, 365, 10-19.	6.6	223
445	A Wearable Transient Pressure Sensor Made with MXene Nanosheets for Sensitive Broad-Range Human-Machine Interfacing. <i>Nano Letters</i> , 2019, 19, 1143-1150.	4.5	538
446	Morphological/nanostructural control toward intrinsically stretchable organic electronics. <i>Chemical Society Reviews</i> , 2019, 48, 1741-1786.	18.7	117
447	Adaptable polyionic elastomers with multiple sensations and entropy-driven actuations for prosthetic skins and neuromuscular systems. <i>Materials Horizons</i> , 2019, 6, 538-545.	6.4	84
448	3D printing of ionic conductors for high-sensitivity wearable sensors. <i>Materials Horizons</i> , 2019, 6, 767-780.	6.4	165
449	Multimodal Sensing with a Three-Dimensional Piezoresistive Structure. <i>ACS Nano</i> , 2019, 13, 10972-10979.	7.3	134
450	Highly transparent, stretchable, and rapid self-healing polyvinyl alcohol/cellulose nanofibril hydrogel sensors for sensitive pressure sensing and human motion detection. <i>Sensors and Actuators B: Chemical</i> , 2019, 295, 159-167.	4.0	199
451	A Sensitive Piezoresistive Tactile Sensor Combining Two Microstructures. <i>Nanomaterials</i> , 2019, 9, 779.	1.9	21
452	Design of Tool for Exfoliation of Monocrystalline Microscale Silicon Films. <i>Journal of Micro and Nano-Manufacturing</i> , 2019, 7, .	0.8	1
453	Inkjet-printed stretchable and low voltage synaptic transistor array. <i>Nature Communications</i> , 2019, 10, 2676.	5.8	194
454	A highly flexible tactile sensor with an interlocked truncated sawtooth structure based on stretchable graphene/silver/silicone rubber composites. <i>Journal of Materials Chemistry C</i> , 2019, 7, 8669-8679.	2.7	42
455	Highly conductive and stretchable carbon nanotube/thermoplastic polyurethane composite for wearable heater. <i>Composites Science and Technology</i> , 2019, 181, 107695.	3.8	83
456	Direct muscle stimulation using diode-amplified triboelectric nanogenerators (TENGs). <i>Nano Energy</i> , 2019, 63, 103844.	8.2	84
457	Resistance Change Mechanism of Electronic Component Mounting through Contact Pressure Using Elastic Adhesive. <i>Micromachines</i> , 2019, 10, 396.	1.4	2

#	ARTICLE	IF	CITATIONS
458	Electrically Conductive Coatings for Fiber-Based E-Textiles. <i>Fibers</i> , 2019, 7, 51.	1.8	69
459	Intelligent Position, Pressure and Depth Sensing in a Soft Optical Waveguide Skin. , 2019, , .		3
460	High-Performance Flexible Tactile Sensor Enabling Intelligent Haptic Perception for a Soft Prosthetic Hand. <i>Advanced Materials Technologies</i> , 2019, 4, 1900317.	3.0	54
461	Experimental investigation on micro-fabrication of wearable dry-patching flexible substrate using transparent superhydrophobic polyimide. <i>Materials Research Express</i> , 2019, 6, 086434.	0.8	9
462	Kinematics analysis of scissor-type inspired interconnects. <i>Acta Mechanica</i> , 2019, 230, 2979-2988.	1.1	4
463	A Low-Power, Single-Chip Electronic Skin Interface for Prosthetic Applications. , 2019, , .		3
464	Amorphous FeZr metal for multi-functional sensor in electronic skin. <i>Npj Flexible Electronics</i> , 2019, 3, .	5.1	18
465	Assembly and applications of 3D conformal electronics on curvilinear surfaces. <i>Materials Horizons</i> , 2019, 6, 642-683.	6.4	141
466	Soft High-Resolution Neural Interfacing Probes: Materials and Design Approaches. <i>Nano Letters</i> , 2019, 19, 2741-2749.	4.5	59
467	Flexible Capacitive Pressure Sensor Enhanced by Tilted Micropillar Arrays. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 17796-17803.	4.0	292
468	Ultraviolet- and Microwave-Protecting, Self-Cleaning e-Skin for Efficient Energy Harvesting and Tactile Mechanosensing. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 17501-17512.	4.0	42
469	All-polymer based polymorph skin with controllable surface texture. <i>Smart Materials and Structures</i> , 2019, 28, 075011.	1.8	4
470	Omnidirectional Printing of Soft Elastomer for Liquid-State Stretchable Electronics. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 18590-18598.	4.0	29
471	Characterization of a Soft Pressure Sensor on the Basis of Ionic Liquid Concentration and Thickness of the Piezoresistive Layer. <i>IEEE Sensors Journal</i> , 2019, 19, 6076-6084.	2.4	21
472	A transparent, glue-free, skin-attachable graphene pressure sensor with micropillars for skin-elasticity measurement. <i>Nanotechnology</i> , 2019, 30, 335501.	1.3	26
473	An Ultra-sensitive, Rapidly Responsive Strain Sensor Based on Silver Microflakes by Simple Process. <i>ChemistrySelect</i> , 2019, 4, 4407-4415.	0.7	3
474	Materials and Design Strategies of Stretchable Electrodes for Electronic Skin and its Applications. <i>Proceedings of the IEEE</i> , 2019, 107, 2185-2197.	16.4	55
475	Ag nanowire-based transparent stretchable tactile sensor recognizing strain directions and pressure. <i>Nanotechnology</i> , 2019, 30, 315502.	1.3	20

#	ARTICLE	IF	CITATIONS
476	Bioinspired Hairy Skin Electronics for Detecting the Direction and Incident Angle of Airflow. ACS Applied Materials & Interfaces, 2019, 11, 13608-13615.	4.0	28
477	Skin-Mountable Biosensors and Therapeutics: A Review. Annual Review of Biomedical Engineering, 2019, 21, 299-323.	5.7	45
478	Electronic and Thermal Properties of Graphene and Recent Advances in Graphene Based Electronics Applications. Nanomaterials, 2019, 9, 374.	1.9	238
479	Stretchable Micromotion Sensor with Enhanced Sensitivity Using Serpentine Layout. ACS Applied Materials & Interfaces, 2019, 11, 12261-12271.	4.0	56
480	Multifunctional Skin-Inspired Flexible Sensor Systems for Wearable Electronics. Advanced Materials Technologies, 2019, 4, 1800628.	3.0	431
481	Stretchable Electroluminescent Display Enabled by Graphene-Based Hybrid Electrode. ACS Applied Materials & Interfaces, 2019, 11, 14222-14228.	4.0	69
482	Freestanding Functional Structures by Aerosol-Jet Printing for Stretchable Electronics and Sensing Applications. Advanced Materials Technologies, 2019, 4, 1900048.	3.0	42
483	E-Skin Bimodal Sensors for Robotics and Prosthesis Using PDMS Molds Engraved by Laser. Sensors, 2019, 19, 899.	2.1	26
484	Experimental validation of the surface state distribution model in the Suzuki theory to qualify the thin film surface materials. Solid-State Electronics, 2019, 154, 12-15.	0.8	0
485	Structure-Property Relationships in Graphene-Based Strain and Pressure Sensors for Potential Artificial Intelligence Applications. Sensors, 2019, 19, 1250.	2.1	64
486	An Extremely Inexpensive, Simple, and Flexible Carbon Fiber Electrode for Tunable Elastomeric Piezo-Resistive Sensors and Devices Realized by LSTM RNN. ACS Applied Materials & Interfaces, 2019, 11, 11910-11919.	4.0	13
487	Stretchable sensors for environmental monitoring. Applied Physics Reviews, 2019, 6, .	5.5	83
488	Bioresorbable Electronic Implants: History, Materials, Fabrication, Devices, and Clinical Applications. Advanced Healthcare Materials, 2019, 8, e1801660.	3.9	86
489	Piezoresistive Graphene/P(VDF-TrFE) Heterostructure Based Highly Sensitive and Flexible Pressure Sensor. ACS Applied Materials & Interfaces, 2019, 11, 16006-16017.	4.0	58
490	Low-resistance stretchable electrodes using a thick silver layer and a PDMS-PDMS bonding technique. AIP Advances, 2019, 9, .	0.6	4
491	Intuitive-augmented human-machine multidimensional nano-manipulation terminal using triboelectric stretchable strip sensors based on minimalist design. Nano Energy, 2019, 60, 440-448.	8.2	47
492	Bioinspired Adhesive Architectures: From Skin Patch to Integrated Bioelectronics. Advanced Materials, 2019, 31, e1803309.	11.1	203
493	Buckled Structures: Fabrication and Applications in Wearable Electronics. Small, 2019, 15, e1804805.	5.2	83

#	ARTICLE	IF	CITATIONS
494	A facile post-peeling modification approach of elastic dielectrics for high-performance conformal organic thin-film transistors. <i>Journal of Materials Chemistry C</i> , 2019, 7, 3199-3205.	2.7	10
495	A Multiparameter Pressure-Temperature-Humidity Sensor Based on Mixed Ionic-Electronic Cellulose Aerogels. <i>Advanced Science</i> , 2019, 6, 1802128.	5.6	114
496	Matrix-Independent Highly Conductive Composites for Electrodes and Interconnects in Stretchable Electronics. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 8567-8575.	4.0	89
497	Low Operating Voltage and Highly Pressure-Sensitive Printed Sensor for Healthcare Monitoring with Analogic Amplifier Circuit. <i>ACS Applied Electronic Materials</i> , 2019, 1, 246-252.	2.0	38
498	Self-Powered and Self-Functional Cotton Sock Using Piezoelectric and Triboelectric Hybrid Mechanism for Healthcare and Sports Monitoring. <i>ACS Nano</i> , 2019, 13, 1940-1952.	7.3	221
499	Microstructured electrodes supported on serpentine interconnects for stretchable electronics. <i>APL Materials</i> , 2019, 7, .	2.2	13
500	A fracture model for exfoliation of thin silicon films. <i>International Journal of Fracture</i> , 2019, 216, 161-171.	1.1	3
501	Ultrastretchable and Stable Strain Sensors Based on Antifreezing and Self-Healing Ionic Organohydrogels for Human Motion Monitoring. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 9405-9414.	4.0	285
502	All MoS ₂ -Based Large Area, Skin-Attachable Active-Matrix Tactile Sensor. <i>ACS Nano</i> , 2019, 13, 3023-3030.	7.3	171
503	Fabrication of a Flexible Capacitive Pressure Sensor Using Full Inkjet Printing. , 2019, , .		2
504	Flexible Temperature-Pressure Organic Sensor. , 2019, , .		0
505	A Flexible Tactile Sensor Array Based on Conductive Rubber. , 2019, , .		0
506	Highly Flexible and Stretchable Structure Based on Au/Graphene Film and Polyurethane Yarn. , 2019, , .		1
507	Planar Growth, Integration, and Applications of Semiconducting Nanowires. <i>Advanced Materials</i> , 2020, 32, e1903945.	11.1	42
508	Highly sensitive and stable printed pressure sensor with microstructured grid arrays. <i>Smart Materials and Structures</i> , 2019, 28, 105027.	1.8	17
509	An all-textile triboelectric sensor for wearable teleoperated human-machine interaction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 26804-26811.	5.2	57
510	A multifunctional and highly stretchable electronic device based on silver nanowire/wrap yarn composite for a wearable strain sensor and heater. <i>Journal of Materials Chemistry C</i> , 2019, 7, 13468-13476.	2.7	69
511	Recent advances in lithographic fabrication of micro-/nanostructured polydimethylsiloxanes and their soft electronic applications. <i>Journal of Semiconductors</i> , 2019, 40, 111605.	2.0	26

#	ARTICLE	IF	CITATIONS
512	Anodized Aluminum Oxide-Assisted Low-Cost Flexible Capacitive Pressure Sensors Based on Double-Sided Nanopillars by a Facile Fabrication Method. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 48594-48603.	4.0	130
513	Flexible submental sensor patch with remote monitoring controls for management of oropharyngeal swallowing disorders. <i>Science Advances</i> , 2019, 5, eaay3210.	4.7	61
514	Non-synaptic Plasticity in Leech Touch Cells. <i>Frontiers in Physiology</i> , 2019, 10, 1444.	1.3	5
515	Flexible and stretchable photodetectors and gas sensors for wearable healthcare based on solution-processable metal chalcogenides. <i>Journal of Semiconductors</i> , 2019, 40, 111604.	2.0	13
516	Three-dimensional curvy electronics created using conformal additive stamp printing. <i>Nature Electronics</i> , 2019, 2, 471-479.	13.1	131
517	A fully inkjet-printed transparent humidity sensor based on a Ti_3C_2/Ag hybrid for touchless sensing of finger motion. <i>Nanoscale</i> , 2019, 11, 21522-21531.	2.8	68
518	Three-dimensionally printed pressure sensor arrays from hysteresis-less stretchable piezoresistive composites. <i>RSC Advances</i> , 2019, 9, 39993-40002.	1.7	7
519	A highly stretchable strain-insensitive temperature sensor exploits the Seebeck effect in nanoparticle-based printed circuits. <i>Journal of Materials Chemistry A</i> , 2019, 7, 24493-24501.	5.2	38
520	Highly Ordered 3D Microstructure-Based Electronic Skin Capable of Differentiating Pressure, Temperature, and Proximity. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 1503-1511.	4.0	92
521	Highly Sensitive, Low Voltage Operation, and Low Power Consumption Resistive Strain Sensors Based on Vertically Oriented Graphene Nanosheets. <i>Advanced Materials Technologies</i> , 2019, 4, 1800572.	3.0	15
522	Wearable Bandage-Based Strain Sensor for Home Healthcare: Combining 3D Aerosol Jet Printing and Laser Sintering. <i>ACS Sensors</i> , 2019, 4, 218-226.	4.0	113
523	Recent Advances in Transparent Electronics with Stretchable Forms. <i>Advanced Materials</i> , 2019, 31, e1804690.	11.1	114
524	Highly Sensitive, Skin-Attachable, and Stretchable Array of Thermo-Responsive Suspended Gate Field-Effect Transistors with Thermochromic Display. <i>Advanced Functional Materials</i> , 2019, 29, 1807679.	7.8	47
525	Novel temperature sensors based on strain-relieved braiding constructions. <i>Textile Research Journal</i> , 2019, 89, 3159-3168.	1.1	4
526	Ultrafast response of spray-on nanocomposite piezoresistive sensors to broadband ultrasound. <i>Carbon</i> , 2019, 143, 743-751.	5.4	33
527	Textile-Based Triboelectric Nanogenerators for Self-Powered Wearable Electronics. <i>Advanced Functional Materials</i> , 2019, 29, 1804533.	7.8	148
528	Ionic liquid-based high-voltage flexible supercapacitor for integration with wearable human-powered energy harvesting system. <i>Journal of Applied Electrochemistry</i> , 2019, 49, 79-86.	1.5	6
529	Adhesion-Free Thin-Film-Like Curvature Sensors Integrated on Flexible and Wearable Electronics for Monitoring Bending of Joints and Various Body Gestures. <i>Advanced Materials Technologies</i> , 2019, 4, 1800327.	3.0	41

#	ARTICLE	IF	CITATIONS
530	Self-powered electronic skin based on the triboelectric generator. <i>Nano Energy</i> , 2019, 56, 252-268.	8.2	205
531	Direct write of a flexible high-sensitivity pressure sensor with fast response for electronic skins. <i>Organic Electronics</i> , 2019, 67, 10-18.	1.4	38
532	Soft and elastic hydrogel-based microelectronics for localized low-voltage neuromodulation. <i>Nature Biomedical Engineering</i> , 2019, 3, 58-68.	11.6	499
533	Development of a Highly Sensitive, Broad-Range Hierarchically Structured Reduced Graphene Oxide/PolyHIPE Foam for Pressure Sensing. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 4318-4327.	4.0	83
534	Solution-processed thin films of semiconducting carbon nanotubes and their application to soft electronics. <i>Nanotechnology</i> , 2019, 30, 132001.	1.3	32
535	Micropatterned elastic ionic polyacrylamide hydrogel for low-voltage capacitive and organic thin-film transistor pressure sensors. <i>Nano Energy</i> , 2019, 58, 96-104.	8.2	123
536	Bioinspired Electronics for Artificial Sensory Systems. <i>Advanced Materials</i> , 2019, 31, e1803637.	11.1	195
537	A flexible ionic liquid-polyurethane sponge capacitive pressure sensor. <i>Sensors and Actuators A: Physical</i> , 2019, 285, 67-72.	2.0	66
538	Three-dimensional printing of a tunable graphene-based elastomer for strain sensors with ultrahigh sensitivity. <i>Carbon</i> , 2019, 143, 63-72.	5.4	99
539	Toward artificial intelligent self-cooling electronic skins: Large electrocaloric effect in all-inorganic flexible thin films at room temperature. <i>Journal of Materiomics</i> , 2019, 5, 66-72.	2.8	16
540	Biaxially Stretchable Ultrathin Si Enabled by Serpentine Structures on Prestrained Elastomers. <i>Advanced Materials Technologies</i> , 2019, 4, 1800489.	3.0	27
541	A 3-D finger motion measurement system via soft strain sensors for hand rehabilitation. <i>Sensors and Actuators A: Physical</i> , 2019, 285, 700-711.	2.0	27
542	High-performance stretchable conductive nanocomposites: materials, processes, and device applications. <i>Chemical Society Reviews</i> , 2019, 48, 1566-1595.	18.7	400
543	Multiaxial and Transparent Strain Sensors Based on Synergetically Reinforced and Orthogonally Cracked Hetero-Nanocrystal Solids. <i>Advanced Functional Materials</i> , 2019, 29, 1806714.	7.8	41
544	Stretchable electronics: functional materials, fabrication strategies and applications. <i>Science and Technology of Advanced Materials</i> , 2019, 20, 187-224.	2.8	245
545	Robotic interfaces for cognitive psychology and embodiment research: A research roadmap. <i>Wiley Interdisciplinary Reviews: Cognitive Science</i> , 2019, 10, e1486.	1.4	52
546	Advanced Carbon for Flexible and Wearable Electronics. <i>Advanced Materials</i> , 2019, 31, e1801072.	11.1	779
547	Nylon Fabric Enabled Tough and Flaw Insensitive Stretchable Electronics. <i>Advanced Materials Technologies</i> , 2019, 4, 1800466.	3.0	4

#	ARTICLE	IF	CITATIONS
548	A Wearable Multifunctional Pulse Monitor Using Thermosensation-Based Flexible Sensors. IEEE Transactions on Biomedical Engineering, 2019, 66, 1412-1421.	2.5	30
549	Soft and flexible material-based affinity sensors. Biotechnology Advances, 2020, 39, 107398.	6.0	60
550	When Flexible Organic Field-Effect Transistors Meet Biomimetics: A Prospective View of the Internet of Things. Advanced Materials, 2020, 32, e1901493.	11.1	136
551	Rubbery Electronics Fully Made of Stretchable Elastomeric Electronic Materials. Advanced Materials, 2020, 32, e1902417.	11.1	95
552	Mechanoluminescent, Air-Dielectric MoS ₂ Transistors as Active-Matrix Pressure Sensors for Wide Detection Ranges from Footsteps to Cellular Motions. Nano Letters, 2020, 20, 66-74.	4.5	80
553	Ionic Tactile Sensors for Emerging Human-Interactive Technologies: A Review of Recent Progress. Advanced Functional Materials, 2020, 30, 1904532.	7.8	122
554	Microfluidics for Biosynthesizing: from Droplets and Vesicles to Artificial Cells. Small, 2020, 16, e1903940.	5.2	101
555	Novel textile moisture sensors based on multi-layered braiding constructions. Textile Research Journal, 2020, 90, 469-477.	1.1	3
556	Material-Based Approaches for the Fabrication of Stretchable Electronics. Advanced Materials, 2020, 32, e1902743.	11.1	243
557	Electro-mechanical Degradation Model of Flexible Metal Films Due to Fatigue Damage Accumulation. Metals and Materials International, 2020, 26, 501-509.	1.8	4
558	Highly sensitive and stretchable strain sensors based on chopped carbon fibers sandwiched between silicone rubber layers for human motion detections. Journal of Composite Materials, 2020, 54, 423-434.	1.2	19
559	Mechanically-Guided Structural Designs in Stretchable Inorganic Electronics. Advanced Materials, 2020, 32, e1902254.	11.1	183
560	Wearable Electronics Based on 2D Materials for Human Physiological Information Detection. Small, 2020, 16, e1901124.	5.2	97
561	Enhancement of Interfacial Adhesion Using Micro/Nanoscale Hierarchical Cilia for Randomly Accessible Membrane-Type Electronic Devices. ACS Nano, 2020, 14, 118-128.	7.3	10
562	Sensitive Wearable Temperature Sensor with Seamless Monolithic Integration. Advanced Materials, 2020, 32, e1905527.	11.1	221
563	Highly Robust Flexible Ferroelectric Field Effect Transistors Operable at High Temperature with Low-Power Consumption. Advanced Functional Materials, 2020, 30, 1906131.	7.8	32
564	Flexible and stretchable inorganic electronics: Conductive materials, fabrication strategy, and applicable devices. , 2020, , 199-252.		2
565	Nanomaterial-Enabled Flexible and Stretchable Sensing Systems: Processing, Integration, and Applications. Advanced Materials, 2020, 32, e1902343.	11.1	198

#	ARTICLE	IF	CITATIONS
566	3D Self-Assembled Microelectronic Devices: Concepts, Materials, Applications. <i>Advanced Materials</i> , 2020, 32, e1902994.	11.1	67
567	Healing, flexible, high thermal sensitive dual-network ionic conductive hydrogels for 3D linear temperature sensor. <i>Materials Science and Engineering C</i> , 2020, 107, 110310.	3.8	51
568	Lightweight, Superelastic Boron Nitride/Polydimethylsiloxane Foam as Air Dielectric Substitute for Multifunctional Capacitive Sensor Applications. <i>Advanced Functional Materials</i> , 2020, 30, 1909604.	7.8	117
569	Graphene-based wearable piezoresistive physical sensors. <i>Materials Today</i> , 2020, 36, 158-179.	8.3	262
570	Transfer Printing of Electronic Functions on Arbitrary Complex Surfaces. <i>ACS Nano</i> , 2020, 14, 12-20.	7.3	47
571	High-performance, biaxially stretchable conductor based on Ag composites and hierarchical auxetic structure. <i>Journal of Materials Chemistry C</i> , 2020, 8, 1556-1561.	2.7	19
572	A Survey of Tactile-Sensing Systems and Their Applications in Biomedical Engineering. <i>Advances in Materials Science and Engineering</i> , 2020, 2020, 1-17.	1.0	48
573	A review of electronic skin: soft electronics and sensors for human health. <i>Journal of Materials Chemistry B</i> , 2020, 8, 852-862.	2.9	125
574	Ultra-high transparent sandwich structure with a silicon dioxide passivation layer prepared on a colorless polyimide substrate for a flexible capacitive touch screen panel. <i>Solar Energy Materials and Solar Cells</i> , 2020, 207, 110350.	3.0	20
575	Origin of the High Donor-Acceptor Composition Tolerance in Device Performance and Mechanical Robustness of All-Polymer Solar Cells. <i>Chemistry of Materials</i> , 2020, 32, 582-594.	3.2	68
576	All-Day Mobile Healthcare Monitoring System Based on Heterogeneous Stretchable Sensors for Medical Emergency. <i>IEEE Transactions on Industrial Electronics</i> , 2020, 67, 8808-8816.	5.2	34
577	Recent progress on flexible and stretchable piezoresistive strain sensors: From design to application. <i>Progress in Materials Science</i> , 2020, 114, 100617.	16.0	267
578	An 8.2- μ W 0.14-mm ² 16-Channel CDMA-Like Capacitance-to-Digital Converter. <i>IEEE Journal of Solid-State Circuits</i> , 2020, 55, 1361-1373.	3.5	10
579	Ionoskins: Nonvolatile, Highly Transparent, Ultrastretchable Ionic Sensory Platforms for Wearable Electronics. <i>Advanced Functional Materials</i> , 2020, 30, 1907290.	7.8	146
580	Automatic Transformation of Membrane-Type Electronic Devices into Complex 3D Structures via Extrusion Shear Printing and Thermal Relaxation of Acrylonitrile-Butadiene-Styrene Frameworks. <i>Advanced Functional Materials</i> , 2020, 30, 1907384.	7.8	5
581	Foldable and washable fully textile-based pressure sensor. <i>Smart Materials and Structures</i> , 2020, 29, 055010.	1.8	26
582	Recent innovations in artificial skin. <i>Biomaterials Science</i> , 2020, 8, 776-797.	2.6	38
583	An autonomously healable, highly stretchable and cyclically compressible, wearable hydrogel as a multimodal sensor. <i>Polymer Chemistry</i> , 2020, 11, 1327-1336.	1.9	32

#	ARTICLE	IF	CITATIONS
584	Highly stretchable and contact-responsive light-emitting diodes based on MAPbBr ₃ @PEO composite film. <i>Journal of Alloys and Compounds</i> , 2020, 819, 153360.	2.8	14
585	A review on stretchable magnetic field sensorics. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 083002.	1.3	37
586	Geometry dependent performance limits of stretchable reduced graphene oxide interconnects: The role of wrinkles. <i>Carbon</i> , 2020, 158, 864-872.	5.4	7
587	Architectural design of flexible anisotropic piezoresistive composite for multiple-loading recognition. <i>Composites Part B: Engineering</i> , 2020, 182, 107631.	5.9	8
588	Sensing and Control for Prosthetic Hands in Clinical and Research Applications. , 2020, , 445-468.		12
589	A three-electrode multi-module sensor for accurate bodily-kinesthetic monitoring. <i>Nano Energy</i> , 2020, 68, 104316.	8.2	21
590	Flexible Electronics: Status, Challenges and Opportunities. <i>Frontiers in Electronics</i> , 2020, 1, .	2.0	133
591	Highly stretchable, healable, sensitive double-network conductive hydrogel for wearable sensor. <i>Polymer</i> , 2020, 211, 123095.	1.8	38
592	A robust stretchable pressure sensor for electronic skins. <i>Organic Electronics</i> , 2020, 86, 105926.	1.4	4
593	Ultrahigh Sensitivity of Flexible Thermistors Based on 3D Porous Graphene Characterized by Imbedded Microheaters. <i>Advanced Electronic Materials</i> , 2020, 6, 2000451.	2.6	7
594	Self-transformed parallel structures in strain sensitive Au thin film micropattern embedded on soft elastomer. <i>Journal of Micromechanics and Microengineering</i> , 2020, 30, 115004.	1.5	2
595	Two-Dimensionally Stretchable Organic Light-Emitting Diode with Elastic Pillar Arrays for Stress Relief. <i>Nano Letters</i> , 2020, 20, 1526-1535.	4.5	48
596	Curved neuromorphic image sensor array using a MoS ₂ -organic heterostructure inspired by the human visual recognition system. <i>Nature Communications</i> , 2020, 11, 5934.	5.8	182
597	Piezoelectric PVDF-based sensors with high pressure sensitivity induced by chemical modification of electrode surfaces. <i>Sensors and Actuators A: Physical</i> , 2020, 316, 112424.	2.0	9
598	Locally Controlled Sensing Properties of Stretchable Pressure Sensors Enabled by Micro-Patterned Piezoresistive Device Architecture. <i>Sensors</i> , 2020, 20, 6588.	2.1	3
599	Expandable and implantable bioelectronic complex for analyzing and regulating real-time activity of the urinary bladder. <i>Science Advances</i> , 2020, 6, .	4.7	34
600	Advancing Biosensors with Machine Learning. <i>ACS Sensors</i> , 2020, 5, 3346-3364.	4.0	307
601	Transduction Mechanisms, Micro-Structuring Techniques, and Applications of Electronic Skin Pressure Sensors: A Review of Recent Advances. <i>Sensors</i> , 2020, 20, 4407.	2.1	35

#	ARTICLE	IF	CITATIONS
602	Large-Area Virus Coated Ultrathin Colorimetric Sensors with a Highly Lossy Resonant Promoter for Enhanced Chromaticity. <i>Advanced Science</i> , 2020, 7, 2000978.	5.6	28
603	Ultra-conformal drawn-on-skin electronics for multifunctional motion artifact-free sensing and point-of-care treatment. <i>Nature Communications</i> , 2020, 11, 3823.	5.8	196
604	Unconventional Device and Material Approaches for Monolithic Biointegration of Implantable Sensors and Wearable Electronics. <i>Advanced Materials Technologies</i> , 2020, 5, .	3.0	37
605	Devising Materials Manufacturing Toward Lab-to-Fab Translation of Flexible Electronics. <i>Advanced Materials</i> , 2020, 32, e2001903.	11.1	60
606	A flexible ECG patch compatible with NFC RF communication. <i>Npj Flexible Electronics</i> , 2020, 4, .	5.1	62
607	Material Recognition Sensor Array by Electrostatic Induction and Triboelectric Effects. <i>Advanced Materials Technologies</i> , 2020, 5, 2000641.	3.0	15
608	Flexible electronic skin sensor based on regenerated cellulose/carbon nanotube composite films. <i>Cellulose</i> , 2020, 27, 10199-10211.	2.4	41
609	Printable Liquid Metal Microparticle Ink for Ultrastretchable Electronics. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 50852-50859.	4.0	54
610	Sharing and caring: Testosterone, fathering, and generosity among BaYaka foragers of the Congo Basin. <i>Scientific Reports</i> , 2020, 10, 15422.	1.6	11
611	Inkjet printed self-healable strain sensor based on graphene and magnetic iron oxide nano-composite on engineered polyurethane substrate. <i>Scientific Reports</i> , 2020, 10, 18234.	1.6	18
612	Fabrication of a Surface Adhesion Layer for Hydrogel Sensors via Photografting. <i>ACS Applied Polymer Materials</i> , 2020, 2, 4140-4148.	2.0	15
613	Technologies toward next generation human machine interfaces: From machine learning enhanced tactile sensing to neuromorphic sensory systems. <i>Applied Physics Reviews</i> , 2020, 7, .	5.5	194
614	Vibration Analysis of Post-Buckled Thin Film on Compliant Substrates. <i>Sensors</i> , 2020, 20, 5425.	2.1	3
615	A Review of Conductive Hydrogel Used in Flexible Strain Sensor. <i>Materials</i> , 2020, 13, 3947.	1.3	121
616	Maskless Formation of Conductive Carbon Layer on Leather for Highly Sensitive Flexible Strain Sensors. <i>Advanced Electronic Materials</i> , 2020, 6, 2000549.	2.6	14
617	Realizing Stretchable OLEDs: A Hybrid Platform Based on Rigid Island Arrays on a Stress-Relieving Bilayer Structure. <i>Advanced Materials Technologies</i> , 2020, 5, 2000494.	3.0	23
618	Development of Fully Flexible Tactile Pressure Sensor with Bilayer Interlaced Bumps for Robotic Grasping Applications. <i>Micromachines</i> , 2020, 11, 770.	1.4	18
619	Zinc oxide nanostructure-based textile pressure sensor for wearable applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 16519-16530.	1.1	23

#	ARTICLE	IF	CITATIONS
620	Skin-inspired quadruple tactile sensors integrated on a robot hand enable object recognition. <i>Science Robotics</i> , 2020, 5, .	9.9	216
621	Flexible and stretchable redistribution layer with embedded chips for human-machine interface. , 2020, , .		4
622	Flexible Hybrid Sensor Systems with Feedback Functions. <i>Advanced Functional Materials</i> , 2021, 31, 2007436.	7.8	80
623	A Pressure-Insensitive Self-Attachable Flexible Strain Sensor with Bioinspired Adhesive and Active CNT Layers. <i>Sensors</i> , 2020, 20, 6965.	2.1	14
624	Omnidirectionally stretchable electrodes based on wrinkled silver nanowires through the shrinkage of electrospun polymer fibers. <i>Journal of Materials Chemistry C</i> , 2020, 8, 16798-16807.	2.7	16
625	Heterogeneous integration of rigid, soft, and liquid materials for self-healable, recyclable, and reconfigurable wearable electronics. <i>Science Advances</i> , 2020, 6, .	4.7	118
626	Psychometric Evaluation of Multi-Point Bone-Conducted Tactile Stimulation on the Three Bony Landmarks of the Elbow. , 2020, , .		0
627	Design and Optimization of Piezoresistive PEO/PEDOT:PSS Electrospun Nanofibers for Wearable Flex Sensors. <i>Nanomaterials</i> , 2020, 10, 2166.	1.9	22
628	Microporous Induced Fully Printed Pressure Sensor for Wearable Soft Robotics Machine Interfaces. <i>Advanced Intelligent Systems</i> , 2020, 2, 2000179.	3.3	24
629	Locally coupled electromechanical interfaces based on cytoadhesion-inspired hybrids to identify muscular excitation-contraction signatures. <i>Nature Communications</i> , 2020, 11, 2183.	5.8	47
630	A bioinspired stretchable membrane-based compliance sensor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 11314-11320.	3.3	90
631	Tactile Feedback in Closed-Loop Control of Myoelectric Hand Grasping: Conveying Information of Multiple Sensors Simultaneously via a Single Feedback Channel. <i>Frontiers in Neuroscience</i> , 2020, 14, 348.	1.4	15
632	Skin-inspired electronics: emerging semiconductor devices and systems. <i>Journal of Semiconductors</i> , 2020, 41, 041601.	2.0	63
633	Directly writing flexible temperature sensor with graphene nanoribbons for disposable healthcare devices. <i>RSC Advances</i> , 2020, 10, 22222-22229.	1.7	42
634	Soft Electronics for the Skin: From Health Monitors to Humanâ€“Machine Interfaces. <i>Advanced Materials Technologies</i> , 2020, 5, .	3.0	80
635	Extremely stretchable strain sensors with ultra-high sensitivity based on carbon nanotubes and graphene for human motion detection. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 12608-12619.	1.1	17
636	An aquatic-vision-inspired camera based on a monocentric lens and a silicon nanorod photodiode array. <i>Nature Electronics</i> , 2020, 3, 546-553.	13.1	100
637	A Review of Sensory Feedback in Upper-Limb Prostheses From the Perspective of Human Motor Control. <i>Frontiers in Neuroscience</i> , 2020, 14, 345.	1.4	100

#	ARTICLE	IF	CITATIONS
638	Flexible, Conformable Organic Semiconductor Proximity Sensor Array for Electronic Skin. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000306.	1.9	32
639	Fully Elastomeric Fingerprint-Shaped Electronic Skin Based on Tunable Patterned Graphene/Silver Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 31725-31737.	4.0	42
640	Skin-Interfaced Sensors in Digital Medicine: from Materials to Applications. <i>Matter</i> , 2020, 2, 1414-1445.	5.0	134
641	Microtrench-Enabled Patterned Elastomeric Substrate for Stretchable Electronics with Minimal Interference by Bodily Motion. <i>Advanced Materials Technologies</i> , 2020, 5, 2000432.	3.0	3
642	Recent progress in optoelectronic neuromorphic devices*. <i>Chinese Physics B</i> , 2020, 29, 078502.	0.7	21
643	Liquid metal-enabled cybernetic electronics. <i>Materials Today Physics</i> , 2020, 14, 100245.	2.9	29
644	Polymer nanocomposite meshes for flexible electronic devices. <i>Progress in Polymer Science</i> , 2020, 107, 101279.	11.8	119
645	Sensors in heart-on-a-chip: A review on recent progress. <i>Talanta</i> , 2020, 219, 121269.	2.9	34
646	Low Temperature Adhesive Bonding-Based Fabrication of an Air-Borne Flexible Piezoelectric Micromachined Ultrasonic Transducer. <i>Sensors</i> , 2020, 20, 3333.	2.1	16
647	Ultraminiaturized Stretchable Strain Sensors Based on Single Silicon Nanowires for Imperceptible Electronic Skins. <i>Nano Letters</i> , 2020, 20, 2478-2485.	4.5	51
648	Highly Transparent, Self-Healable, and Adhesive Organogels for Bio-Inspired Intelligent Ionic Skins. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 15657-15666.	4.0	95
649	All-organic flexible fabric antenna for wearable electronics. <i>Journal of Materials Chemistry C</i> , 2020, 8, 5662-5667.	2.7	43
650	Soft Bimodal Sensor Array Based on Conductive Hydrogel for Driving Status Monitoring. <i>Sensors</i> , 2020, 20, 1641.	2.1	13
651	Skin-Patchable Electrodes for Biosensor Applications: A Review. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 1823-1835.	2.6	98
652	Geometrically Structured Nanomaterials for Nanosensors, NEMS, and Nanosieves. <i>Advanced Materials</i> , 2020, 32, e1907082.	11.1	26
653	Review-Recent Advances in the Development of Carbon Nanotubes Based Flexible Sensors. <i>Journal of the Electrochemical Society</i> , 2020, 167, 047506.	1.3	36
654	Unveiling the Stress-Strain Behavior of Conjugated Polymer Thin Films for Stretchable Device Applications. <i>Macromolecules</i> , 2020, 53, 1988-1997.	2.2	25
655	Soft three-dimensional network materials with rational bio-mimetic designs. <i>Nature Communications</i> , 2020, 11, 1180.	5.8	120

#	ARTICLE	IF	CITATIONS
657	Highly stretchable and strain sensitive fibers based on braid-like structure and sliver nanowires. Applied Materials Today, 2020, 19, 100610.	2.3	19
658	Motion Detection Using Tactile Sensors Based on Pressure-Sensitive Transistor Arrays. Sensors, 2020, 20, 3624.	2.1	33
659	Effects of bending strain and crack direction on crack-based strain sensors. Smart Materials and Structures, 2020, 29, 115007.	1.8	15
660	Advances in Materials for Soft Stretchable Conductors and Their Behavior under Mechanical Deformation. Polymers, 2020, 12, 1454.	2.0	11
661	Self-powered user-interactive electronic skin for programmable touch operation platform. Science Advances, 2020, 6, eaba4294.	4.7	112
662	Mechanically Robust, Elastic, and Healable Ionogels for Highly Sensitive Ultra-Durable Ionic Skins. Advanced Materials, 2020, 32, e2002706.	11.1	300
663	Metallic Glass-Based Dual-Mode Sensor for Soft Electronics. IEEE Sensors Journal, 2020, 20, 12396-12401.	2.4	2
664	Sustainable manufacturing of sensors onto soft systems using self-coagulating conductive Pickering emulsions. Science Robotics, 2020, 5, .	9.9	50
665	Synergistic Resistance Modulation toward Ultrahighly Sensitive Piezoresistive Pressure Sensors. Advanced Materials Technologies, 2020, 5, 1901084.	3.0	29
666	Advances in Liquid Metal-Enabled Flexible and Wearable Sensors. Micromachines, 2020, 11, 200.	1.4	78
667	Simultaneous Sensing of Touch and Pressure by Using Highly Elastic e-Fabrics. Applied Sciences (Switzerland), 2020, 10, 989.	1.3	10
668	Multifunctional conductive cellulose fabric with flexibility, superamphiphobicity and flame-retardancy for all-weather wearable smart electronic textiles and high-temperature warning device. Chemical Engineering Journal, 2020, 390, 124508.	6.6	101
669	Progress in achieving high-performance piezoresistive and capacitive flexible pressure sensors: A review. Journal of Materials Science and Technology, 2020, 43, 175-188.	5.6	225
670	On-Demand Printing of Wearable Thermotherapy Pad. Advanced Healthcare Materials, 2020, 9, e1901575.	3.9	21
671	E-skin and wearable systems for health care. , 2020, , 133-178.		9
672	Importance of device structure and interlayer design in storage stability of naphthalene diimide-based all-polymer solar cells. Journal of Materials Chemistry A, 2020, 8, 3735-3745.	5.2	12
673	PVDF-TrFE-Based Stretchable Contact and Non-Contact Temperature Sensor for E-Skin Application. Sensors, 2020, 20, 623.	2.1	23
674	Strain-controlled power devices as inspired by human reflex. Nature Communications, 2020, 11, 326.	5.8	53

#	ARTICLE	IF	CITATIONS
675	Ultraflexible and transparent electroluminescent skin for real-time and super-resolution imaging of pressure distribution. <i>Nature Communications</i> , 2020, 11, 663.	5.8	104
676	Polyelectrolyte complex-based self-healing, fatigue-resistant and anti-freezing hydrogels as highly sensitive ionic skins. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3667-3675.	5.2	170
677	Material Design and Fabrication Strategies for Stretchable Metallic Nanocomposites. <i>Small</i> , 2020, 16, e1906270.	5.2	55
678	Printable carbon nanotube-based elastic conductors for fully-printed sub-1 V stretchable electrolyte-gated transistors and inverters. <i>Journal of Materials Chemistry C</i> , 2020, 8, 3639-3645.	2.7	17
679	PAAm/PEDOT:PSS Hydrogel Based Hybrid Sensor for Simultaneous Detection of Pressure and Temperature. , 2020, , .		3
680	Ultrasensitive and Stretchable Temperature Sensors Based on Thermally Stable and Self-Healing Organohydrogels. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 19069-19079.	4.0	145
681	Highly Sensitive E-Textile Strain Sensors Enhanced by Geometrical Treatment for Human Monitoring. <i>Sensors</i> , 2020, 20, 2383.	2.1	21
682	Antibacterial, Self-Adhesive, Recyclable, and Tough Conductive Composite Hydrogels for Ultrasensitive Strain Sensing. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 22225-22236.	4.0	134
683	A Behaviorâ€Learned Crossâ€Reactive Sensor Matrix for Intelligent Skin Perception. <i>Advanced Materials</i> , 2020, 32, e2000969.	11.1	61
684	A tailored, electronic textile conformable suit for large-scale spatiotemporal physiological sensing in vivo. <i>Npj Flexible Electronics</i> , 2020, 4, .	5.1	102
685	Stretchable Electrochemical Sensors for Cell and Tissue Detection. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 2757-2767.	7.2	66
686	Stretchable Electrochemical Sensors for Cell and Tissue Detection. <i>Angewandte Chemie</i> , 2021, 133, 2789-2799.	1.6	12
687	Conductive elastic sponge-based triboelectric nanogenerator (TENG) for effective random mechanical energy harvesting and ammonia sensing. <i>Nano Energy</i> , 2021, 79, 105422.	8.2	67
688	Transparent, highly-stretchable, adhesive, and ionic conductive composite hydrogel for biomimetic skin. <i>Journal of Materials Science</i> , 2021, 56, 2725-2737.	1.7	35
689	Transparent Soft Actuators/Sensors and Camouflage Skins for Imperceptible Soft Robotics. <i>Advanced Materials</i> , 2021, 33, e2002397.	11.1	131
690	Black Phosphorus@Laserâ€Engraved Graphene Heterostructureâ€Based Temperatureâ€Strain Hybridized Sensor for Electronicâ€Skin Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2007661.	7.8	107
691	Femtosecond laser micro-fabricated flexible sensor arrays for simultaneous mechanical and thermal stimuli detection. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 169, 108348.	2.5	18
692	Electronic Skins for Healthcare Monitoring and Smart Prostheses. <i>Annual Review of Control, Robotics, and Autonomous Systems</i> , 2021, 4, 629-650.	7.5	12

#	ARTICLE	IF	CITATIONS
693	Smart Stretchable Electronics for Advanced Human-Machine Interface. <i>Advanced Intelligent Systems</i> , 2021, 3, 2000157.	3.3	38
694	Nanocellulose-based materials/composites for sensors. , 2021, , 185-214.		4
695	Bio-Inspired Ionic Skin for Theranostics. <i>Advanced Functional Materials</i> , 2021, 31, 2008020.	7.8	99
696	Nanocrack-based strain sensors. <i>Journal of Materials Chemistry C</i> , 2021, 9, 754-772.	2.7	37
697	Recent Developments in Prosthesis Sensors, Texture Recognition, and Sensory Stimulation for Upper Limb Prostheses. <i>Annals of Biomedical Engineering</i> , 2021, 49, 57-74.	1.3	24
698	Narrower Nanoribbon Biosensors Fabricated by Chemical Lift-off Lithography Show Higher Sensitivity. <i>ACS Nano</i> , 2021, 15, 904-915.	7.3	33
699	Soft and flexible gold microelectrodes by supersonic cluster beam deposition and femtosecond laser processing. <i>Microelectronic Engineering</i> , 2021, 237, 111478.	1.1	7
700	Thermally triggered soft actuators based on a bilayer hydrogel synthesized by gamma ray irradiation. <i>Polymer</i> , 2021, 212, 123163.	1.8	12
701	Highly Stretchable Sound-Display Electronics Based on Strain-Sensitive Metallic Nanonetworks. <i>Advanced Science</i> , 2021, 8, 2001647.	5.6	23
702	Large-Area, Flexible SnS/Paper-Based Piezoresistive Pressure Sensor for Artificial Electronic Skin Application. <i>IEEE Sensors Journal</i> , 2021, 21, 5143-5150.	2.4	21
703	Eggshell-inspired membrane-shell strategy for simultaneously improving the sensitivity and detection range of strain sensors. <i>Science China Materials</i> , 2021, 64, 717-726.	3.5	17
704	All-Organic, Solution-Processed, Extremely Conformal, Mechanically Biocompatible, and Breathable Epidermal Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 5660-5667.	4.0	18
705	Skin-Inspired Piezoelectric Tactile Sensor Array with Crosstalk-Free Row+Column Electrodes for Spatiotemporally Distinguishing Diverse Stimuli. <i>Advanced Science</i> , 2021, 8, 2002817.	5.6	161
706	Prosthetic Feedback Systems. , 2021, , 147-167.		2
707	Thermoplastic polyurethane flexible capacitive proximity sensor reinforced by CNTs for applications in the creative industries. <i>Scientific Reports</i> , 2021, 11, 1104.	1.6	32
708	Self-Calibrated, Sensitive, and Flexible Temperature Sensor Based on 3D Chemically Modified Graphene Hydrogel. <i>Advanced Electronic Materials</i> , 2021, 7, 2001084.	2.6	24
709	Functionalized Elastomers for Intrinsically Soft and Biointegrated Electronics. <i>Advanced Healthcare Materials</i> , 2021, 10, e2002105.	3.9	36
710	Recent progress of skin-integrated electronics for intelligent sensing. <i>Light Advanced Manufacturing</i> , 2021, 2, 39.	2.2	18

#	ARTICLE	IF	CITATIONS
711	Advanced applications of green materials in bioelectronics applications. , 2021, , 631-661.		1
712	Review on Conductive Polymer/CNTs Nanocomposites Based Flexible and Stretchable Strain and Pressure Sensors. Sensors, 2021, 21, 341.	2.1	128
713	A Flexible Multi-Functional Smart Skin for Force, Touch Position, Proximity, and Humidity Sensing for Humanoid Robots. IEEE Sensors Journal, 2021, 21, 26355-26363.	2.4	21
714	Ultrastable, stretchable, highly conductive and transparent hydrogels enabled by salt-percolation for high-performance temperature and strain sensing. Journal of Materials Chemistry C, 2021, 9, 13668-13679.	2.7	77
715	Development of stretchable metallic glass electrodes. Nanoscale, 2021, 13, 1800-1806.	2.8	6
716	A Novel Intrinsic Force Sensing Method for Robot Manipulators During Human-Robot Interaction. IEEE Transactions on Robotics, 2021, 37, 2218-2225.	7.3	10
717	Embedded Electrotactile Feedback System for Hand Prostheses Using Matrix Electrode and Electronic Skin. IEEE Transactions on Biomedical Circuits and Systems, 2021, 15, 912-925.	2.7	15
718	Artificial Cutaneous Sensing of Object Slippage using Soft Robotics with Closed-Loop Feedback Process. Small Science, 2021, 1, 2100002.	5.8	11
719	High conductivity in thin, flexible, and stretchable interconnect with polymer composite in a sandwich structure. MRS Advances, 2021, 6, 14-20.	0.5	1
720	Piezoresistive Electronic-Skin Sensors Produced With Self-Channeling Laser Microstructured Silicon Molds. IEEE Transactions on Electron Devices, 2021, 68, 786-792.	1.6	15
721	Tactile Avatar: Tactile Sensing System Mimicking Human Tactile Cognition. Advanced Science, 2021, 8, 2002362.	5.6	27
722	High-Fidelity Recording of EMG Signals by Multichannel On-Skin Electrode Arrays from Target Muscles for Effective Human-Machine Interfaces. ACS Applied Electronic Materials, 2021, 3, 1350-1358.	2.0	16
723	Emerging Thermal Technology Enabled Augmented Reality. Advanced Functional Materials, 2021, 31, 2007952.	7.8	35
724	Skin Electronics: Next-Generation Device Platform for Virtual and Augmented Reality. Advanced Functional Materials, 2021, 31, 2009602.	7.8	100
725	Programmable Stimulation and Actuation in Flexible and Stretchable Electronics. Advanced Intelligent Systems, 2021, 3, 2000228.	3.3	11
726	Nanoscale Materials and Deformable Device Designs for Bioinspired and Biointegrated Electronics. Accounts of Materials Research, 2021, 2, 266-281.	5.9	18
727	Wearable sensors: At the frontier of personalised health monitoring, smart prosthetics and assistive technologies. Biosensors and Bioelectronics, 2021, 176, 112946.	5.3	100
729	Eggshell membrane and expanded polytetrafluoroethylene piezoelectric-enhanced triboelectric bio-nanogenerators for energy harvesting. International Journal of Energy Research, 2021, 45, 11053-11064.	2.2	23

#	ARTICLE	IF	CITATIONS
730	Controllable Graphene Wrinkle for a High-Performance Flexible Pressure Sensor. ACS Applied Materials & Interfaces, 2021, 13, 20448-20458.	4.0	101
731	Implantable bioelectronics toward long-term stability and sustainability. Matter, 2021, 4, 1125-1141.	5.0	45
732	Extra-Soft Tactile Sensor for Sensitive Force/Displacement Measurement with High Linearity Based on a Uniform Strength Beam. Materials, 2021, 14, 1743.	1.3	1
733	Si nanomebranes: Material properties and applications. Nano Research, 2021, 14, 3010-3032.	5.8	6
734	FleXert: A Soft, Actuable Multiwell Plate Insert for Cell Culture under Stretch. ACS Biomaterials Science and Engineering, 2021, 7, 2225-2245.	2.6	7
735	Materials and devices for flexible and stretchable photodetectors and light-emitting diodes. Nano Research, 2021, 14, 2919-2937.	5.8	34
736	Ultrasensitive, Stretchable, and Fast-Response Temperature Sensors Based on Hydrogel Films for Wearable Applications. ACS Applied Materials & Interfaces, 2021, 13, 21854-21864.	4.0	113
737	A model and simulation strategy for fatigue damage evolution of copper films. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2021, 43, 1.	0.8	0
738	Low cost exoskeleton manipulator using bidirectional triboelectric sensors enhanced multiple degree of freedom sensory system. Nature Communications, 2021, 12, 2692.	5.8	107
739	All in One, Self-Powered Bionic Artificial Nerve Based on a Triboelectric Nanogenerator. Advanced Science, 2021, 8, 2004727.	5.6	26
740	Recent progress in silk fibroin-based flexible electronics. Microsystems and Nanoengineering, 2021, 7, 35.	3.4	109
741	Single-Crystalline Silicon Frameworks: A New Platform for Transparent Flexible Optoelectronics. Advanced Materials, 2021, 33, e2008171.	11.1	13
742	Recent Progress on Bioresorbable Passive Electronic Devices and Systems. Micromachines, 2021, 12, 600.	1.4	8
743	All-Printed MXene-Graphene Nanosheet-Based Bimodal Sensors for Simultaneous Strain and Temperature Sensing. ACS Applied Electronic Materials, 2021, 3, 2341-2348.	2.0	48
744	Visco-Poroelastic Electrochemiluminescence Skin with Piezoelectric Effect. Advanced Materials, 2021, 33, e2100321.	11.1	52
745	The rise of intelligent matter. Nature, 2021, 594, 345-355.	13.7	228
746	Advanced collagen nanofibers-based functional bio-composites for high-value utilization of leather: A review. Journal of Science: Advanced Materials and Devices, 2021, 6, 153-166.	1.5	12
747	Mechanics of encapsulated three-dimensional structures for simultaneous sensing of pressure and shear stress. Journal of the Mechanics and Physics of Solids, 2021, 151, 104400.	2.3	10

#	ARTICLE	IF	CITATIONS
748	Tactile Interaction Sensor with Millimeter Sensing Acuity. <i>Sensors</i> , 2021, 21, 4274.	2.1	2
749	Recent progress of triboelectrification-induced electroluminescence: from fundamentals to applications. <i>JPhys Materials</i> , 2021, 4, 042001.	1.8	4
750	Highly Sensitive, Flexible, Stable, and Hydrophobic Biofoam Based on Wheat Flour for Multifunctional Sensor and Adjustable EMI Shielding Applications. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 30020-30029.	4.0	33
751	Bio-inspired Artificial Vision and Neuromorphic Image Processing Devices. <i>Advanced Materials Technologies</i> , 2022, 7, 2100144.	3.0	53
752	Long-term reliable physical health monitoring by sweat pore-inspired perforated electronic skins. <i>Science Advances</i> , 2021, 7, .	4.7	89
753	Assemblies and composites of gold nanostructures for functional devices. <i>Aggregate</i> , 2022, 3, e57.	5.2	10
754	Sensation and Perception of a Bioinspired Flexible Smart Sensor System. <i>ACS Nano</i> , 2021, 15, 9238-9243.	7.3	17
755	Breathable Ti_3C_2 MXene/Protein Nanocomposites for Ultrasensitive Medical Pressure Sensor with Degradability in Solvents. <i>ACS Nano</i> , 2021, 15, 9746-9758.	7.3	198
756	Bio-inspired flexible electronics for smart E-skin. <i>Acta Biomaterialia</i> , 2022, 139, 280-295.	4.1	48
757	Flexible and Stretchable Capacitive Sensors with Different Microstructures. <i>Advanced Materials</i> , 2021, 33, e2008267.	11.1	196
758	A 3D-printed, alternatively tilt-polarized PVDF-TrFE polymer with enhanced piezoelectric effect for self-powered sensor application. <i>Nano Energy</i> , 2021, 85, 105985.	8.2	86
759	Advanced Materials and Technologies for Touch Sensing in Prosthetic Limbs. <i>IEEE Transactions on Nanobioscience</i> , 2021, 20, 256-270.	2.2	11
760	Multifunctional Biosensors Made with Self-Healable Silk Fibroin Imitating Skin. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 33371-33382.	4.0	27
761	Stretchable, Rehealable, Recyclable, and Reconfigurable Integrated Strain Sensor for Joint Motion and Respiration Monitoring. <i>Research</i> , 2021, 2021, 9846036.	2.8	19
762	Skin-inspired High-Performance Active Matrix Circuitry for Multimodal User-Interaction. <i>Advanced Functional Materials</i> , 2021, 31, 2105480.	7.8	14
763	Investigation of the mechanical properties and biocompatibility of planar and electrospun alkene-styrene copolymers against P(VDF-TrFE) and porcine skin: Potential use as second skin substrates. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 119, 104481.	1.5	4
764	Ionogel-based flexible stress and strain sensors. <i>International Journal of Smart and Nano Materials</i> , 2021, 12, 307-336.	2.0	17
765	Flexible and high sensitive capacitive pressure sensor with microstructured electrode inspired by ginkgo leaf. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 465401.	1.3	20

#	ARTICLE	IF	CITATIONS
766	Recent Advances in Flexible Tactile Sensors for Intelligent Systems. <i>Sensors</i> , 2021, 21, 5392.	2.1	47
767	Electrochemistry-Induced Improvements of Mechanical Strength, Self-Healing, and Interfacial Adhesion of Hydrogels. <i>Advanced Materials</i> , 2021, 33, e2102308.	11.1	49
768	A flexible high quality-factor bulk acoustic resonator enabled with transferred single-crystal piezoelectric thin film for sensing applications. <i>Sensors and Actuators A: Physical</i> , 2021, 326, 112721.	2.0	2
769	Fabrication of Metal Nanowire Based Stretchable Mesh Electrode for Wearable Heater Application. <i>Journal of Korean Institute of Metals and Materials</i> , 2021, 59, 575-581.	0.4	5
770	Flexible three-dimensional force sensor of high sensing stability with bonding and supporting composite structure for smart devices. <i>Smart Materials and Structures</i> , 2021, 30, 105004.	1.8	12
771	Design and Construction of Deformable Heaters: Materials, Structure, and Applications. <i>Advanced Electronic Materials</i> , 2021, 7, 2100452.	2.6	25
772	Fabrication of large-scale flexible silicon membrane by crystal-ion-slicing technique using BCB bonding layer. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	1.1	3
773	An Overview of Wearable Piezoresistive and Inertial Sensors for Respiration Rate Monitoring. <i>Electronics (Switzerland)</i> , 2021, 10, 2178.	1.8	33
774	Skin-like Transparent Polymer-Hydrogel Hybrid Pressure Sensor with Pyramid Microstructures. <i>Polymers</i> , 2021, 13, 3272.	2.0	12
775	Self-Powered and Interface-Independent Tactile Sensors Based on Bilayer Single-Electrode Triboelectric Nanogenerators for Robotic Electronic Skin. <i>Advanced Intelligent Systems</i> , 2023, 5, 2100120.	3.3	17
776	E-Skin: The Dawn of a New Era of On-Body Monitoring Systems. <i>Micromachines</i> , 2021, 12, 1091.	1.4	23
777	Robust self-gated-carriers enabling highly sensitive wearable temperature sensors. <i>Applied Physics Reviews</i> , 2021, 8, .	5.5	31
778	Fully solution processed liquid metal features as highly conductive and ultrastretchable conductors. <i>Npj Flexible Electronics</i> , 2021, 5, .	5.1	38
779	Recent advances in wearable biosensing gloves and sensory feedback biosystems for enhancing rehabilitation, prostheses, healthcare, and virtual reality. <i>Biosensors and Bioelectronics</i> , 2021, 190, 113443.	5.3	48
780	A stretchable, room-temperature operable, chemiresistive gas sensor using nanohybrids of reduced graphene oxide and zinc oxide nanorods. <i>Sensors and Actuators B: Chemical</i> , 2021, 345, 130373.	4.0	39
781	Flexible piezoelectric pressure sensor with high sensitivity for electronic skin using near-field electrohydrodynamic direct-writing method. <i>Extreme Mechanics Letters</i> , 2021, 48, 101279.	2.0	59
782	Stretchable organic optoelectronic devices: Design of materials, structures, and applications. <i>Materials Science and Engineering Reports</i> , 2021, 146, 100631.	14.8	48
783	Approaches to deformable physical sensors: Electronic versus iontronic. <i>Materials Science and Engineering Reports</i> , 2021, 146, 100640.	14.8	29

#	ARTICLE	IF	CITATIONS
784	Radial alignment of carbon nanotubes for directional sensing application. Composites Part B: Engineering, 2021, 222, 109038.	5.9	10
785	A fully 3D printed electronic skin with bionic high resolution and air permeable porous structure. Journal of Colloid and Interface Science, 2021, 602, 452-458.	5.0	19
786	Triboelectric bending sensor based smart glove towards intuitive multi-dimensional human-machine interfaces. Nano Energy, 2021, 89, 106330.	8.2	83
787	Knitted Ti3C2T MXene based fiber strain sensor for human-computer interaction. Journal of Colloid and Interface Science, 2021, 604, 643-649.	5.0	42
788	Nanocellulose-mediated transparent high strength conductive hydrogel based on in-situ formed polypyrrole nanofibrils as a multimodal sensor. Carbohydrate Polymers, 2021, 273, 118600.	5.1	35
789	Somatosensation in soft and anthropomorphic prosthetic hands and legs. , 2021, , 561-588.		0
790	Capillary-Force-Driven Switchable Delamination of Nanofilms and Its Application to Green Selective Transfer. Advanced Materials Technologies, 2021, 6, 2001082.	3.0	4
791	Wearable strain sensor for real-time sweat volume monitoring. IScience, 2021, 24, 102028.	1.9	41
792	To Mimic Mechanical Properties of the Skin by Inducing Oriented Nanofiber Microstructures in Bottlebrush Cellulose-graft-diblock Copolymer Elastomers. ACS Applied Materials & Interfaces, 2021, 13, 3278-3286.	4.0	24
794	Recent advances in stretchable field-effect transistors. Journal of Materials Chemistry C, 2021, 9, 7796-7828.	2.7	15
795	Sharpness recognition based on synergy between bio-inspired nociceptors and tactile mechanoreceptors. Scientific Reports, 2021, 11, 2109.	1.6	9
796	Resistive tactile sensors. , 2021, , 13-30.		2
797	A flexible and portable all-fiber temperature sensor based on the upconversion luminescence of octahedral NaBi(WO ₄) ₂ :Er ³⁺ /Yb ³⁺ phosphors. Dalton Transactions, 2021, 50, 917-925.	1.6	9
798	Flexible Nano Smart sensors. , 2021, , 199-230.		1
799	Development of multi-degree-of-freedom hand prosthesis cover with sensory recognition. Journal of Biomechanical Science and Engineering, 2021, 16, 21-00076-21-00076.	0.1	0
800	Textile triboelectric nanogenerators for self-powered biomonitoring. Journal of Materials Chemistry A, 2021, 9, 19149-19178.	5.2	55
801	A Mesocrystal-Like Morphology Formed by Classical Polymer-Mediated Crystal Growth. Advanced Functional Materials, 2017, 27, 1701658.	7.8	12
802	Wireless Monitoring of Small Strains in Intelligent Robots via a Joule Heating Effect in Stretchable Graphene-Polymer Nanocomposites. Advanced Functional Materials, 2020, 30, 1910809.	7.8	68

#	ARTICLE	IF	CITATIONS
803	Wearable Sensorsâ€‘Enabled Humanâ€‘Machine Interaction Systems: From Design to Application. <i>Advanced Functional Materials</i> , 2021, 31, 2008936.	7.8	322
804	3D Multiscale Gradient Pores Impregnated with Ag Nanowires for Simultaneous Pressure and Bending Detection with Enhanced Linear Sensitivity. <i>Advanced Materials Technologies</i> , 2020, 5, 1901041.	3.0	5
805	Inkjet Printing of Curing Agent on Thin PDMS for Local Tailoring of Mechanical Properties. <i>Macromolecular Rapid Communications</i> , 2020, 41, 1900569.	2.0	4
806	Stretchability, Conformability, and Low-Cost Manufacture of Epidermal Sensors. <i>Microsystems and Nanosystems</i> , 2016, , 31-51.	0.1	3
807	Biomimetic Materials and Structures for Sensor Applications. , 2017, , 3-25.		3
808	A Novel Multimodal Tactile Module that Can Provide Vibro-Thermal Feedback. <i>Lecture Notes in Electrical Engineering</i> , 2018, , 437-443.	0.3	12
809	Stretchable tactile sensor with high sensitivity and dynamic stability based on vertically aligned urchin-shaped nanoparticles. <i>Materials Today Physics</i> , 2020, 14, 100219.	2.9	20
810	Bioinspired Gradient Conductivity and Stiffness for Ultrasensitive Electronic Skins. <i>ACS Nano</i> , 2021, 15, 1795-1804.	7.3	104
811	Bring on the bodyNET. <i>Nature</i> , 2017, 549, 328-330.	13.7	121
812	New perspectives and designs into nature-inspired flexible electronics: status and applications. <i>Materials Technology</i> , 2022, 37, 1989-2000.	1.5	10
813	A skin-inspired tactile sensor for smart prosthetics. <i>Science Robotics</i> , 2018, 3, .	9.9	195
814	Very Wide Sensing Range and Hysteresis Behaviors of Tactile Sensor Developed by Embedding Soft Ionic Gels in Soft Silicone Elastomers. <i>ECS Journal of Solid State Science and Technology</i> , 2020, 9, 061024.	0.9	16
815	Flexible and stretchable inorganic optoelectronics. <i>Optical Materials Express</i> , 2019, 9, 4023.	1.6	35
816	Seedless Hydrothermal Growth of ZnO Nanorods as a Promising Route for Flexible Tactile Sensors. <i>Nanomaterials</i> , 2020, 10, 977.	1.9	13
817	Highly Selective Biomimetic Flexible Tactile Sensor for Neuroprosthetics. <i>Research</i> , 2020, 2020, 8910692.	2.8	26
818	Smart and Connected Bioelectronics for Seamless Health Monitoring and Persistent Human-Machine Interfaces. <i>International Symposium on Microelectronics</i> , 2018, 2018, 000660-000664.	0.3	2
819	Eâ€‘Skin Piezoresistive Pressure Sensor Combining Laser Engraving and Shrinking Polymeric Films for Health Monitoring Applications. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100877.	1.9	3
821	A Selfâ€‘Healing and Ionic Liquid Affiliative Polyurethane toward a Piezo 2 Protein Inspired Ionic Skin. <i>Advanced Functional Materials</i> , 2022, 32, 2106341.	7.8	48

#	ARTICLE	IF	CITATIONS
822	A perspective on flexible sensors in developing diagnostic devices. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	23
823	Electrospun bundled carbon nanofibers for skin-inspired tactile sensing, proprioception and gesture tracking applications. <i>Npj Flexible Electronics</i> , 2021, 5, .	5.1	37
824	Design and optimization of isotropic stretchable strain sensors for multidirectional monitoring. <i>Smart Materials and Structures</i> , 2022, 31, 015009.	1.8	4
825	A flexible dual parameter sensor with hierarchical porous structure for fully decoupled pressure-temperature sensing. <i>Chemical Engineering Journal</i> , 2022, 430, 133158.	6.6	50
826	An artificial neural network chip based on two-dimensional semiconductor. <i>Science Bulletin</i> , 2022, 67, 270-277.	4.3	20
827	Vital signal sensing and manipulation of a microscale organ with a multifunctional soft gripper. <i>Science Robotics</i> , 2021, 6, eabi6774.	9.9	38
828	Omnidirectional Tactile Profiling Using a Deformable Pressure Sensor Array Based on Localized Piezoresistivity. <i>Advanced Materials Technologies</i> , 2022, 7, 2100688.	3.0	6
829	Development of Sensory Feedback System for Myoelectric Prosthetic Hand. <i>Journal of the Korean Society for Precision Engineering</i> , 2015, 32, 851-856.	0.1	1
830	Applications of Nanotechnology in Reconstructive Surgery. <i>Open Access Library Journal (oalib)</i> , 2016, 03, 1-7.	0.1	0
831	Polymer nanofiber-carbon nanotube network generating circuits. , 2018, , .		0
832	Fully rubbery stretchable electronics, sensors, and smart skins. , 2019, , .		0
833	Ingeniously designed Silica nanostructures as an exceptional support: Opportunities, potential challenges and future prospects for viable degradation of pesticides. <i>Journal of Environmental Management</i> , 2022, 301, 113821.	3.8	11
834	Effect of Surface Roughness on the Formation of Nano-to-Mirco Patterns Using Pattern Transfer Printing. <i>Journal of Korean Institute of Metals and Materials</i> , 2020, 58, 26-31.	0.4	0
835	Soft and Stretchable Electronics Design. , 2023, , 258-286.		2
836	Three-Dimensional Multistack-Printed, Self-Powered Flexible Pressure Sensor Arrays: Piezoelectric Composites with Chemically Anchored Heterogeneous Interfaces. <i>ACS Omega</i> , 2020, 5, 1956-1965.	1.6	13
837	Sensing mechanisms and applications of flexible pressure sensors. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2020, 69, 178102.	0.2	13
838	Photoproteins Tapping Solar Energy to Power Sensors. <i>Green Energy and Technology</i> , 2020, , 127-140.	0.4	0
839	Scalably Nanomanufactured Atomically Thin Materials-Based Wearable Health Sensors. <i>Small Structures</i> , 2022, 3, 2100120.	6.9	16

#	ARTICLE	IF	CITATIONS
840	Ultrahigh Sensitive Au-Doped Silicon Nanomembrane Based Wearable Sensor Arrays for Continuous Skin Temperature Monitoring with High Precision. <i>Advanced Materials</i> , 2022, 34, e2105865.	11.1	69
842	A flexible smart glove for pressure and bending signal acquisition. , 2021, , .		2
843	Hierarchically Structured Ni-Enhanced Flexible Multiwall Carbon Nanotubes/Polydimethylsiloxane for a High-Performance Pressure Sensor. <i>Advanced Materials Interfaces</i> , 2021, 8, 2101362.	1.9	2
844	Recent Advances in Multiresponsive Flexible Sensors towards E-skin: A Delicate Design for Versatile Sensing. <i>Small</i> , 2022, 18, e2103734.	5.2	76
845	Self-adaptive cardiac optogenetics device based on negative stretching-resistive strain sensor. <i>Science Advances</i> , 2021, 7, eabj4273.	4.7	19
846	Conceptual Method of Temperature Sensation in Bionic Hand by Extraordinary Perceptual Phenomenon. <i>Journal of Bionic Engineering</i> , 2021, 18, 1344-1357.	2.7	5
847	Interference-Free, Multimodal Electronic Skin Matrix with Low-Power, Monolithic Integrated Circuits. <i>Advanced Materials Technologies</i> , 0, , 2101020.	3.0	3
848	Stretchable MoS ₂ Artificial Photoreceptors for E-skin. <i>Advanced Functional Materials</i> , 2022, 32, 2107524.	7.8	24
849	A Multifunctional Flexible Ferroelectric Transistor Sensor for Electronic Skin. <i>Advanced Materials Interfaces</i> , 2021, 8, .	1.9	9
850	Stretchable strain sensor with a hollow structure via molding for visual detection of 3D deformation. <i>Materials Letters</i> , 2022, 308, 131268.	1.3	5
851	Flexible smart sensing skin for "Fly-by-Feel"-morphing aircraft. <i>Science China Technological Sciences</i> , 2022, 65, 1-29.	2.0	28
852	Size effect on stretchability of Cu films on wrinkled polydimethylsiloxane substrates. <i>Thin Solid Films</i> , 2021, 742, 139033.	0.8	1
853	A Biomimetic <i>Drosera Capensis</i> with Adaptive Decision-Predation Behavior Based on Multifunctional Sensing and Fast Actuating Capability. <i>Advanced Functional Materials</i> , 2022, 32, 2110296.	7.8	30
856	Mechanical sensors based on two-dimensional materials: Sensing mechanisms, structural designs and wearable applications. <i>IScience</i> , 2022, 25, 103728.	1.9	11
857	Interfacial assembly of metallic nanomembranes for highly stretchable conductors. <i>Matter</i> , 2022, 5, 15-17.	5.0	6
858	Dynamic/static mechanical stimulation double responses and self-powered "e-green" electronic skin based on electrode potential difference. <i>Chemical Engineering Journal</i> , 2022, 433, 134412.	6.6	6
859	Bidirectional neuroprosthesis system integration. , 2020, , .		1
860	Improving Prosthetics by Using Silicone as an Artificial Skin. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
861	Electrical Failure Mechanism in Stretchable Thin-Film Conductors. ACS Applied Materials & Interfaces, 2022, 14, 3121-3129.	4.0	7
862	Advances in flexible organic field-effect transistors and their applications for flexible electronics. Npj Flexible Electronics, 2022, 6, .	5.1	194
863	Vertical graphene on flexible substrate, overcoming limits of crack-based resistive strain sensors. Npj Flexible Electronics, 2022, 6, .	5.1	22
864	Progress in SiC nanowire field-effect-transistors for integrated circuits and sensing applications. Microelectronic Engineering, 2022, 255, 111704.	1.1	15
865	Nanoarchitectonics of Stretchable Organic Electronics Materials. RSC Nanoscience and Nanotechnology, 2022, , 518-545.	0.2	0
866	2D Heterostructures for Ubiquitous Electronics and Optoelectronics: Principles, Opportunities, and Challenges. Chemical Reviews, 2022, 122, 6514-6613.	23.0	187
867	Optimization of a Soft Pressure Sensor in Terms of the Molecular Weight of the Ferroelectricâ€”Polymer Sensing Layer. Advanced Functional Materials, 2022, 32, .	7.8	10
868	Highly Stretchable and Self-Adhesive Elastomers Based on Polymer Chain Rearrangement for High-Performance Strain Sensors. ACS Omega, 2022, 7, 5825-5835.	1.6	9
869	An Artificial Reflex Arc That Perceives Afferent Visual and Tactile Information and Controls Efferent Muscular Actions. Research, 2022, 2022, 9851843.	2.8	30
870	Stretchable Thermoelectrics: Strategies, Performances, and Applications. Advanced Functional Materials, 2022, 32, .	7.8	40
872	Multifunctional Electronic Skins Enable Robots to Safely and Dexterously Interact with Human. Advanced Science, 2022, 9, e2104969.	5.6	31
873	Flexible Electronics and Devices as Humanâ€”Machine Interfaces for Medical Robotics. Advanced Materials, 2022, 34, e2107902.	11.1	211
874	Recent Advances in Electronic Skins with Multiple-Stimuli-Responsive and Self-Healing Abilities. Materials, 2022, 15, 1661.	1.3	8
875	MXene/ZIF-67/PAN Nanofiber Film for Ultra-sensitive Pressure Sensors. ACS Applied Materials & Interfaces, 2022, 14, 12367-12374.	4.0	38
876	Wearable Sensors Adapted to Extreme Environments Based on the Robust Ionogel Electrolytes with Dual Hydrogen Networks. ACS Applied Materials & Interfaces, 2022, 14, 12713-12721.	4.0	14
877	Machine-Learning-Assisted Recognition on Bioinspired Soft Sensor Arrays. ACS Nano, 2022, 16, 6734-6743.	7.3	49
878	A perspective on ultralong silicon nanowires for flexible sensors. Applied Physics Letters, 2022, 120, 130501.	1.5	2
879	Application of Wearable Sensors in Actuation and Control of Powered Ankle Exoskeletons: A Comprehensive Review. Sensors, 2022, 22, 2244.	2.1	6

#	ARTICLE	IF	CITATIONS
880	Artificial Intelligence-Enabled Sensing Technologies in the 5G/Internet of Things Era: From Virtual Reality/Augmented Reality to the Digital Twin. <i>Advanced Intelligent Systems</i> , 2022, 4, .	3.3	146
881	Flexible Sensory Systems: Structural Approaches. <i>Polymers</i> , 2022, 14, 1232.	2.0	5
882	Multilayer flexible electronics: Manufacturing approaches and applications. <i>Materials Today Physics</i> , 2022, 23, 100647.	2.9	23
883	A Highly Stretchable and Permeable Liquid Metal Micromesh Conductor by Physical Deposition for Epidermal Electronics. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 13713-13721.	4.0	31
884	Highly Permeable and Ultrastretchable Liquid Metal Micromesh for Skin-Attachable Electronics. , 2022, 4, 634-641.		34
885	Strategies for body-conformable electronics. <i>Matter</i> , 2022, 5, 1104-1136.	5.0	90
886	An intrinsically stretchable aqueous Zn-MnO ₂ battery based on microcracked electrodes for self-powering wearable electronics. <i>Energy Storage Materials</i> , 2022, 47, 386-393.	9.5	15
887	Nanofiber-reinforced transparent, tough, and self-healing substrate for an electronic skin with damage detection and program-controlled autonomic repair. <i>Nano Energy</i> , 2022, 96, 107108.	8.2	9
888	Skin-inspired textile-based tactile sensors enable multifunctional sensing of wearables and soft robots. <i>Nano Energy</i> , 2022, 96, 107137.	8.2	112
889	A Novel PDMS-Based Microfeature-Size Fabrication Method for Biocompatible and Flexible Devices. , 2021, 11, .		1
890	Flexible Strain Sensors Fabricated by Fused Deposition Modeling-Based Multimaterial 3D Printing with Conductive Polyurethane Composites. , 2021, , .		2
891	Photomemristor Structures Based on 2D Crystals for Biocompatible Information Sensor Systems. <i>Nanobiotechnology Reports</i> , 2021, 16, 706-721.	0.2	0
892	Flexible and Stretchable Strategies for Electronic Skins: Materials, Structure, and Integration. <i>ACS Applied Electronic Materials</i> , 2022, 4, 1-26.	2.0	20
893	A Printable and Conductive Yield-Stress Fluid as an Ultrastretchable Transparent Conductor. <i>Research</i> , 2021, 2021, 9874939.	2.8	9
894	Conceptualization of a Sensory Feedback System in an Anthropomorphic Replacement Hand. Prosthesis, 2021, 3, 415-427.	1.1	4
895	Laser-Processed Stretchable-Gradient Interconnection-Based Temperature Sensor for a Real-Time Monitoring System. <i>ACS Applied Electronic Materials</i> , 2021, 3, 5601-5607.	2.0	5
896	Design and Simulation of Flexible Underwater Acoustic Sensor Based on 3D Buckling Structure. <i>Micromachines</i> , 2021, 12, 1536.	1.4	4
897	Fabrication of a Flexible Electric Skin Using a Bionic Cell and Study of Its Sensing Ability. <i>Journal of Bionic Engineering</i> , 2022, 19, 62-72.	2.7	0

#	ARTICLE	IF	CITATIONS
898	Recent Advances in 1D Nanomaterialâ€Based Bioelectronics for Healthcare Applications. <i>Advanced NanoBiomed Research</i> , 2022, 2, .	1.7	8
899	Smallâ€Sized Deformable Shear Sensor Array for Direct Monitoring of Quantitative Shear Distribution. <i>Advanced Materials Technologies</i> , 2022, 7, .	3.0	5
900	Wafer-scale integration of stretchable semiconducting polymer microstructures via capillary gradient. <i>Nature Communications</i> , 2021, 12, 7038.	5.8	23
901	Flexoelectricity Driven Fano Resonance in Slotted Carbon Nanotubes for Decoupled Multifunctional Sensing. <i>Research</i> , 2021, 2021, 9821905.	2.8	2
902	Study of capacitance type flexible electronic devices based on polyacrylamide and reduced graphene oxide composite hydrogel. <i>European Polymer Journal</i> , 2022, 171, 111200.	2.6	16
903	Waterâ€resistant conductive organogels with sensation and actuation functions for artificial neuroâ€sensory muscular systems. <i>SmartMat</i> , 2022, 3, 632-643.	6.4	12
904	Wireless graphene-based thermal patch for obtaining temperature distribution and performing thermography. <i>Science Advances</i> , 2022, 8, eabm6693.	4.7	27
905	Dual crosslinked ionogels with high stretchability and self-healing ability for wearable motion and thermal sensors. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2023, 72, 817-824.	1.8	1
906	A Heterogeneously Integrated Spiking Neuron Array for Multimodeâ€Fused Perception and Object Classification. <i>Advanced Materials</i> , 2022, 34, e2200481.	11.1	48
907	Flexible microstructured pressure sensors: design, fabrication and applications. <i>Nanotechnology</i> , 2022, 33, 322002.	1.3	27
908	Fabrication of conductive and superhydrophobic poly(lactic acid) nonwoven fabric for human motion detection. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	1.3	5
909	Coupled Multiphysics Modelling of Sensors for Chemical, Biomedical, and Environmental Applications with Focus on Smart Materials and Low-Dimensional Nanostructures. <i>Chemosensors</i> , 2022, 10, 157.	1.8	3
910	Additive-Manufactured Flexible Triboelectric Sensor Based on Porous PDMS Sponge for Highly Detecting Joint Movements. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2023, 10, 97-107.	2.7	3
911	Stretchable hybrid electronics: combining rigid electronic devices with stretchable interconnects into high-performance on-skin electronics. <i>Journal of Information Display</i> , 2022, 23, 163-184.	2.1	17
912	Improvement of Dielectric Polarization Characteristic for a Highly Sensitive Flexible Triboelectric Sensor. <i>Journal of the Korean Society for Precision Engineering</i> , 2022, 39, 357-362.	0.1	0
913	Smart Coreâ€Shell Nanostructures for Force, Humidity, and Temperature Multiâ€stimuli Responsiveness. <i>Advanced Materials Technologies</i> , 2022, 7, .	3.0	10
914	A Scientometric Review of Soft Robotics: Intellectual Structures and Emerging Trends Analysis (2010â€2021). <i>Frontiers in Robotics and AI</i> , 2022, 9, .	2.0	12
915	Multifunctional Tactile Feedbacks Towards Compliant Robot Manipulations via 3D-Shaped Electronic Skin. <i>IEEE Sensors Journal</i> , 2022, 22, 9046-9056.	2.4	10

#	ARTICLE	IF	CITATIONS
916	Triboelectric UV patterning for wearable one-terminal tactile sensor array to perceive dynamic contact motions. <i>Nano Energy</i> , 2022, 98, 107320.	8.2	15
917	Highly Stretchable MoS ₂ -Based Transistors with Opto-Synaptic Functionalities. <i>Advanced Electronic Materials</i> , 2022, 8, .	2.6	8
918	Evolution of the Seebeck effect in nanoparticle-percolated networks under applied strain. <i>Applied Materials Today</i> , 2022, 28, 101503.	2.3	2
919	Multifunctional Sensors Based on Doped Indium Oxide Nanocrystals. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 24648-24658.	4.0	5
920	Flexible Pressure Sensor With Wide Linear Sensing Range for Human-Machine Interaction. <i>IEEE Transactions on Electron Devices</i> , 2022, 69, 3901-3907.	1.6	7
921	Investigation of effective stress imposed on flexible single-crystalline semiconductor nanomembrane electronics under bending conditions. <i>Modern Physics Letters B</i> , 2022, 36, .	1.0	1
922	Super-Stretchable and Self-Healing hydrogel with a Three-Dimensional silver nanowires network structure for wearable sensor and electromagnetic interference shielding. <i>Chemical Engineering Journal</i> , 2022, 446, 137136.	6.6	29
923	Functional mimicry of Ruffini receptors with fibre Bragg gratings and deep neural networks enables a bio-inspired large-area tactile-sensitive skin. <i>Nature Machine Intelligence</i> , 2022, 4, 425-435.	8.3	53
924	Wearable EEG electronics for a Brain-AI Closed-Loop System to enhance autonomous machine decision-making. <i>Npj Flexible Electronics</i> , 2022, 6, .	5.1	29
925	Plasma-Enhanced Carbon Nanotube Fiber Cathode for Li-S Batteries. <i>Journal of Carbon Research</i> , 2022, 8, 30.	1.4	0
926	Plasticized PVC-Gel Single Layer-Based Stretchable Triboelectric Nanogenerator for Harvesting Mechanical Energy and Tactile Sensing. <i>Advanced Science</i> , 2022, 9, .	5.6	23
927	Artificial neuromorphic cognitive skins based on distributed biaxially stretchable elastomeric synaptic transistors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	25
928	Recent Advances in Resistive Sensor Technology for Tactile Perception: A Review. <i>IEEE Sensors Journal</i> , 2022, 22, 15635-15649.	2.4	16
929	Strain-ultrasensitive surface wrinkles for visual optical sensors. <i>Materials Horizons</i> , 2022, 9, 2233-2242.	6.4	10
930	Recent progress in strain-engineered elastic platforms for stretchable thin-film devices. <i>Materials Horizons</i> , 2022, 9, 2053-2075.	6.4	16
931	Highly Sensitive Flexible Capacitive Pressure Sensor Based on Bionic Hybrid Microstructures. , 2022, , .		1
932	Nondestructive identification of softness via bioinspired multisensory electronic skins integrated on a robotic hand. <i>Npj Flexible Electronics</i> , 2022, 6, .	5.1	15
933	Superior, Environmentally Tolerant, Flexible, and Adhesive Poly(ionic liquid) Gel as a Multifaceted Underwater Sensor. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 29273-29283.	4.0	28

#	ARTICLE	IF	CITATIONS
934	Ultra-sensitive and electrical-mechanical dual self-healing ionic hydrogel-based wearable sensor for human motion detection. <i>Polymer</i> , 2022, 254, 125071.	1.8	7
935	A universal theoretical model for hybrid structure sensor with proximity and large-range contact force sensing. <i>Sensors and Actuators A: Physical</i> , 2022, 343, 113676.	2.0	5
936	Full-hand electrotactile feedback using electronic skin and matrix electrodes for high-bandwidth human-machine interfacing. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2022, 380, .	1.6	4
937	Highly Compressible and Sensitive Flexible Piezoresistive Pressure Sensor Based on MWCNTs/Ti3C2Tx MXene @ Melamine Foam for Human Gesture Monitoring and Recognition. <i>Nanomaterials</i> , 2022, 12, 2225.	1.9	11
938	Tactile Near-Sensor Analogue Computing for Ultrafast Responsive Artificial Skin. <i>Advanced Materials</i> , 2022, 34, .	11.1	42
939	Morphological Engineering of Sensing Materials for Flexible Pressure Sensors and Artificial Intelligence Applications. <i>Nano-Micro Letters</i> , 2022, 14, .	14.4	75
940	An amphibious artificial vision system with a panoramic visual field. <i>Nature Electronics</i> , 2022, 5, 452-459.	13.1	40
941	High sensitivity and broad linearity range pressure sensor based on hierarchical in-situ filling porous structure. <i>Npj Flexible Electronics</i> , 2022, 6, .	5.1	23
942	Research Progress on the Preparation and Applications of Laser-Induced Graphene Technology. <i>Nanomaterials</i> , 2022, 12, 2336.	1.9	24
943	Full Soft Capacitive Omnidirectional Tactile Sensor Based on Micro-Spines Electrode and Hemispheric Dielectric Structure. <i>Biosensors</i> , 2022, 12, 506.	2.3	5
944	A comprehensive review on the prospects of next-generation wearable electronics for individualized health monitoring, assistive robotics, and communication. <i>Sensors and Actuators A: Physical</i> , 2022, 344, 113715.	2.0	30
945	Fabrication method of flexible strain sensors with CNTs and solvents. <i>Sensors and Actuators A: Physical</i> , 2022, 345, 113775.	2.0	14
947	Brittle PCDTPT Based Elastic Hybrid Networks for Transparent Stretchable Skin-Like Electronics. <i>Advanced Electronic Materials</i> , 2023, 9, .	2.6	4
948	Large-Area 3D Printable Soft Electronic Skin for Biomedical Applications. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 5319-5328.	2.6	6
949	Ultra-Sensitive and Quick-Responsive Hybrid-Supercapacitive Iontronic Pressure Sensor for Intuitive Electronics and Artificial Tactile Applications. <i>Advanced Materials Technologies</i> , 2022, 7, .	3.0	9
950	Shielded soft force sensors. <i>Nature Communications</i> , 2022, 13, .	5.8	20
951	Artificial tactile perception smart finger for material identification based on triboelectric sensing. <i>Science Advances</i> , 2022, 8, .	4.7	115
952	A Focused Review on the Flexible Wearable Sensors for Sports: From Kinematics to Physiologies. <i>Micromachines</i> , 2022, 13, 1356.	1.4	10

#	ARTICLE	IF	CITATIONS
953	Recent advances in flexible force sensors and their applications: a review. Flexible and Printed Electronics, 2022, 7, 033002.	1.5	6
954	Recent Advances in Stretchable and Wearable Capacitive Electrophysiological Sensors for Long-Term Health Monitoring. Biosensors, 2022, 12, 630.	2.3	26
955	Emerging Iontronic Sensing: Materials, Mechanisms, and Applications. Research, 2022, 2022, .	2.8	23
956	High density integration of stretchable inorganic thin film transistors with excellent performance and reliability. Nature Communications, 2022, 13, .	5.8	14
957	Carbon nanotube/rubber composites for pressure sensing applications. MRS Advances, 2022, 7, 1004-1009.	0.5	1
958	Mechanically Active Materials and Devices for Bio-Interfaced Pressure Sensors—A Review. Advanced Materials, 0, , .	11.1	14
959	Precision Silicon Exfoliation Tool Design. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2023, 145, .	1.3	0
960	Emerging Strategies Based on Sensors for Chronic Wound Monitoring and Management. Chemosensors, 2022, 10, 311.	1.8	1
961	Assembly of complex 3D structures and electronics on curved surfaces. Science Advances, 2022, 8, .	4.7	37
962	Soft Modular Glove with Multimodal Sensing and Augmented Haptic Feedback Enabled by Materials'™ Multifunctionalities. ACS Nano, 2022, 16, 14097-14110.	7.3	52
963	Multiple hydrogen bonds reinforced conductive hydrogels with robust elasticity and ultra-durability as multifunctional ionic skins. Chemical Engineering Journal, 2023, 451, 138525.	6.6	33
964	Highly sensitive and dynamically stable strain sensors based on porous-designed Fe nanowires/multi-walled carbon nanotubes with stable bi-conducting networks. Science China Technological Sciences, 2022, 65, 2990-2999.	2.0	7
965	Flexible Ferroelectric Devices: Status and Applications. Advanced Functional Materials, 2022, 32, .	7.8	21
966	Notch-insensitive, underwater adhesive, and self-healing ionic skins. Polymer, 2022, 259, 125246.	1.8	2
967	A High-Power-Density Piezoelectric Actuator Operating in Bicycling Movement Mechanism. IEEE Transactions on Industrial Electronics, 2023, 70, 6090-6098.	5.2	4
968	Double-Sided Wearable Multifunctional Sensing System with Anti-interference Design for Human-Environment Interface. ACS Nano, 2022, 16, 14679-14692.	7.3	16
969	Assessing a new Frequency Modulation architecture for artificial large area skin-like sensory array deployment in robotic platforms. Array, 2022, 16, 100252.	2.5	0
972	Soft Conductive Hydrogel-Based Electronic Skin for Robot Finger Grasping Manipulation. Polymers, 2022, 14, 3930.	2.0	8

#	ARTICLE	IF	CITATIONS
973	High-Performance Flexible Piezoresistive Pressure Sensor Printed with 3D Microstructures. <i>Nanomaterials</i> , 2022, 12, 3417.	1.9	11
974	Intelligent Interactive Control via Haptic E-skin for Human-Robot Interaction and Collaboration. <i>Advanced Intelligent Systems</i> , 2022, 4, .	3.3	2
975	Wrinkled, cracked and bridged carbon networks for highly sensitive and stretchable strain sensors. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022, 163, 107221.	3.8	7
976	Ultrathin crystalline-silicon-based strain gauges with deep learning algorithms for silent speech interfaces. <i>Nature Communications</i> , 2022, 13, .	5.8	27
977	Design and 3D FEM Analysis of a Flexible Piezoelectric Micromechanical Ultrasonic Transducer Based on Sc-Doped AlN Film. <i>Sensors</i> , 2022, 22, 8100.	2.1	2
978	Intrinsically Stretchable Microbattery with Ultrahigh Deformability for Self-Powering Wearable Electronics. , 2022, 4, 2401-2408.		5
979	Wearable Capacitive Pressure Sensor for Contact and Non-Contact Sensing and Pulse Waveform Monitoring. <i>Molecules</i> , 2022, 27, 6872.	1.7	13
980	Crocodile-skin-Inspired Omnidirectionally Stretchable Pressure Sensor. <i>Small</i> , 2022, 18, .	5.2	15
981	Computing Resistance-Style Image Sensors for Artificial Neural Networks. <i>IEEE Internet of Things Journal</i> , 2023, 10, 4985-4997.	5.5	1
982	Fabrication of Micro/nanostructures on Silicon using a Mixed Multiple Pulses Femtosecond Laser. , 2022, , .		0
983	Portable heat transfer measurement system mimicking human thermal sensation. <i>Sensors and Actuators A: Physical</i> , 2023, 349, 114019.	2.0	1
984	Multifunctional Sensors Based on a Silver Nanowires/PDMS Aerogel Composite. <i>ACS Applied Electronic Materials</i> , 2022, 4, 5413-5420.	2.0	8
985	A crack compensation strategy for highly stretchable conductors based on liquid metal inclusions. <i>IScience</i> , 2022, 25, 105495.	1.9	7
986	UV-laser-machined stretchable multi-modal sensor network for soft robot interaction. <i>Npj Flexible Electronics</i> , 2022, 6, .	5.1	11
987	Triboelectric Nanogenerator Enabled Wearable Sensors and Electronics for Sustainable Internet of Things Integrated Green Earth. <i>Advanced Energy Materials</i> , 2023, 13, .	10.2	79
988	Elastomeric Core/Conductive Sheath Fibers for Tensile and Torsional Strain Sensors. <i>Sensors</i> , 2022, 22, 8934.	2.1	0
989	Material Choice and Structure Design of Flexible Battery Electrode. <i>Advanced Science</i> , 2023, 10, .	5.6	19
990	A multisensory-feedback tactile glove with dense coverage of sensing arrays for object recognition. <i>Chemical Engineering Journal</i> , 2023, 455, 140890.	6.6	5

#	ARTICLE	IF	CITATIONS
991	Stretchable conductors for stretchable field-effect transistors and functional circuits. <i>Chemical Society Reviews</i> , 2023, 52, 795-835.	18.7	18
992	Highly Sensitive Tactile Sensor With Wide Dynamic Range Based on Multicontact Mechanism. <i>IEEE Sensors Journal</i> , 2023, 23, 211-218.	2.4	0
993	Numerical Study of a Microfluidic-Based Strain Sensor: Proof of Concept. , 0, , .		0
994	Flexible Wearable Sensors in Medical Monitoring. <i>Biosensors</i> , 2022, 12, 1069.	2.3	20
995	Recent Advances in Multifunctional Wearable Sensors and Systems: Design, Fabrication, and Applications. <i>Biosensors</i> , 2022, 12, 1057.	2.3	9
996	Balanced Coexistence of Reversible and Irreversible Covalent Bonds in a Conductive Triple Polymeric Network Enables Stretchable Hydrogels with High Toughness and Adhesiveness. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 56395-56406.	4.0	4
997	Perovskite Piezoelectric-Based Flexible Energy Harvesters for Self-Powered Implantable and Wearable IoT Devices. <i>Sensors</i> , 2022, 22, 9506.	2.1	6
998	Stretchable One-Dimensional Conductors for Wearable Applications. <i>ACS Nano</i> , 2022, 16, 19810-19839.	7.3	21
999	All-Polymer Piezo-Composites for Scalable Energy Harvesting and Sensing Devices. <i>Molecules</i> , 2022, 27, 8524.	1.7	1
1000	Compound semiconductor devices for the skin. <i>Nature Materials</i> , 0, , .	13.3	4
1001	Nanomembrane-assembled nanophotonics and optoelectronics: from materials to applications. <i>Journal of Physics Condensed Matter</i> , 2023, 35, 093001.	0.7	3
1002	Battery-Free, Wireless, Ionic Liquid Sensor Arrays to Monitor Pressure and Temperature of Patients in Bed and Wheelchair. <i>Small</i> , 2023, 19, .	5.2	11
1003	Ultrasensitive Piezoresistive and Piezocapacitive Cellulose-Based Ionic Hydrogels for Wearable Multifunctional Sensing. <i>ACS Applied Electronic Materials</i> , 2023, 5, 205-215.	2.0	4
1004	Liquid-Metal-Based Stretchable Dual-Parameter Sensor for Simultaneous Detection of Deformation and Temperature. <i>Advanced Materials Technologies</i> , 2023, 8, .	3.0	6
1005	Highly Conductive and Compliant Silver Nanowire Nanocomposites by Direct Spray Deposition. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 57290-57298.	4.0	7
1006	On-skin and tele-haptic application of mechanically decoupled taxel array on dynamically moving and soft surfaces. <i>Npj Flexible Electronics</i> , 2022, 6, .	5.1	5
1007	Smart Fibers for Self-Powered Electronic Skins. <i>Advanced Fiber Materials</i> , 2023, 5, 401-428.	7.9	49
1008	Piezo-Resistive Flexible Pressure Sensor by Blade-Coating Graphene-Silver Nanosheet-Polymer Nanocomposite. <i>Nanomaterials</i> , 2023, 13, 4.	1.9	3

#	ARTICLE	IF	CITATIONS
1009	Carbon-Based Flexible Devices for Comprehensive Health Monitoring. <i>Small Methods</i> , 2023, 7, .	4.6	25
1010	Plasma Surface Engineering of Natural and Sustainable Polymeric Derivatives and Their Potential Applications. <i>Polymers</i> , 2023, 15, 400.	2.0	17
1011	Tomographic Artificial Skin for Robotic Application. , 2022, , .		1
1012	Analyzing Material Recognition Performance of Thermal Tactile Sensing using a Large Materials Database and a Real Robot. , 2022, , .		1
1013	Crack-Based Sensor by Using the UV Curable Polyurethane-Acrylate Coated Film with V-Groove Arrays. <i>Micromachines</i> , 2023, 14, 62.	1.4	4
1014	Neuromorphic Tactile Sensing and Encoding. , 2023, , 1609-1634.		0
1015	Highly Stretchable Graphene Scrolls Transistors for Self-Powered Tribotronic Non-Mechanosensation Application. <i>Nanomaterials</i> , 2023, 13, 528.	1.9	1
1016	Nanomaterial-Based Synaptic Optoelectronic Devices for In-Sensor Preprocessing of Image Data. <i>ACS Omega</i> , 2023, 8, 5209-5224.	1.6	8
1017	A vacuum-deposited polymer dielectric for wafer-scale stretchable electronics. <i>Nature Electronics</i> , 2023, 6, 137-145.	13.1	31
1018	A Stretchable Strain-Insensitive Smart Glove for Simultaneous Detection of Pressure and Temperature. , 2023, , .		1
1019	Skin-Inspired Hierarchical Structure Sensor for Ultrafast Active Human-Robot Interaction. <i>Advanced Materials Technologies</i> , 0, , .	3.0	2
1020	Conformal Design on Rigid Curved Substrate. , 2022, , 137-163.		0
1021	Structural Engineering of Flexible Electronics. , 2022, , 1-26.		0
1023	Advancements in Electronic Materials and Devices for Stretchable Displays. <i>Advanced Materials Technologies</i> , 2023, 8, .	3.0	13
1024	Perception of Static and Dynamic Forces with a Bio-inspired Tactile Fingertip. <i>Journal of Bionic Engineering</i> , 2023, 20, 1544-1554.	2.7	2
1025	Ultra-Stretchable Spiral Hybrid Conductive Fiber with 500% Strain Electric Stability and Deformation-Independent Linear Temperature Response. <i>Small</i> , 2023, 19, .	5.2	7
1026	Advanced Bioinspired Organic Sensors for Future-Oriented Intelligent Applications. , 0, , 2200066.		2
1027	A Strain-Sensitive Flexible MoTe ₂ -Based Memristor for Gesture Recognition. <i>IEEE Electron Device Letters</i> , 2023, 44, 622-625.	2.2	3

#	ARTICLE	IF	CITATIONS
1028	Ultrastretchable and Compact Zn-MnO ₂ Rechargeable Battery. , 2023, 5, 955-961.		7
1029	Microstructured Droplet Based Porous Capacitive Pressure Sensor. , 2022, , .		1
1030	Green preparation of graphene-based plantar pressure sensor. Journal of Materials Science: Materials in Electronics, 2023, 34, .	1.1	1
1031	Localizing strain via micro-cage structure for stretchable pressure sensor arrays with ultralow spatial crosstalk. Nature Communications, 2023, 14, .	5.8	29
1032	Nanocomposite conductive hydrogels with Robust elasticity and multifunctional responsiveness for flexible sensing and wound monitoring. Materials Horizons, 2023, 10, 2096-2108.	6.4	18
1033	An Ultrawide Range, Highly Stretchable Liquid Metal Force and Strain Sensor Based on Spiral Multilayer Microfluidic Fibers. IEEE Transactions on Industrial Informatics, 2024, 20, 4-11.	7.2	1
1034	Flexible Multimodal Sensor Based on Doubleâ€network Hydrogel for Human and Robotic Applications. ChemistrySelect, 2023, 8, .	0.7	1
1035	High-Precision Wearable Displacement Sensing System for Clinical Diagnosis of Anterior Cruciate Ligament Tears. ACS Nano, 2023, 17, 5686-5694.	7.3	8
1036	Bioinspired Stretchable MXene Deformation-Insensitive Hydrogel Temperature Sensors for Plant and Skin Electronics. Research, 2023, 6, .	2.8	2
1037	On-the-fly machine learning potential accelerated accurate prediction of lattice thermal conductivity of metastable silicon crystals. Physical Review Materials, 2023, 7, .	0.9	9
1038	Electronics Epidermal Tattoo â€ An overview. , 2023, , .		1
1039	Stretchable and All-Directional Strain-Insensitive Electronic Glove for Robotic Skins and Humanâ€Machine Interfacing. ACS Nano, 2023, 17, 8355-8366.	7.3	20
1040	Innervation of Sensing Microchannels for Threeâ€Dimensional Stimuli Perception. Advanced Materials Technologies, 2023, 8, .	3.0	4
1041	Uniform segmented platelet micelles with compositionally distinct and selectively degradable cores. Nature Chemistry, 2023, 15, 824-831.	6.6	16
1047	Ultralarge Curvature Folding Resistance of Polyimide Films Based on Spring-Like Folding Segments. ACS Macro Letters, 2023, 12, 703-709.	2.3	0
1050	Soft Conductive Interfacing for Bioelectrical Uses: Adhesion Mechanisms and Structural Approaches. Macromolecules, 2023, 56, 4431-4446.	2.2	3
1054	Wearables, E-textiles, and Soft Robotics for Personalized Medicine. Springer Handbooks, 2023, , 1265-1287.	0.3	0
1065	Piezotronic Transistors and Arrays. Microtechnology and MEMS, 2023, , 105-159.	0.2	0

#	ARTICLE	IF	CITATIONS
1070	Recent advances in flexible noninvasive electrodes for surface electromyography acquisition. Npj Flexible Electronics, 2023, 7, .	5.1	5
1078	Mushroom-mimetic 3D hierarchical architecture-based e-skin with high sensitivity and a wide sensing range for intelligent perception. Materials Horizons, 2023, 10, 5666-5676.	6.4	2
1087	Self-powered Flexible Electronic Skin Based on Ultra-stretchable Frictional Nano-integration. Lecture Notes in Computer Science, 2023, , 613-624.	1.0	0
1091	Recent developments and challenges in flexible electrochemical energy devices. , 2023, , 107-127.		0
1101	Structure driven piezoresistive performance design for rubbery composites-based sensors and application prospect: a review. Acta Mechanica Sinica/Lixue Xuebao, 2024, 40, .	1.5	1
1104	Spatial and Temporal Analysis of Normal and Shear Forces During Grasping, Manipulation and Social Activities. , 2023, , .		0
1114	Technological trends in medical robotic sensing with soft electronic skin. Sensors & Diagnostics, 2024, 3, 218-237.	1.9	0
1122	Material and structural approaches for human-machine interfaces. , 2024, , 227-290.		0
1145	Fabrication of Liquid Metal-Based Flexible Electronics. , 2024, , 1-33.		0