

# Skin-like pressure and strain sensors based on transparent nanotubes

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Citation Report

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13	Effect of Void Volume and Silver Loading on Strain Response of Electrical Resistance in Silver Flakes/Polyurethane Composite for Stretchable Conductors. Japanese Journal of Applied Physics, 2012, 51, 11PD01.	0.8	3
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17	An electrically and mechanically self-healing composite with pressure- and flexion-sensitive properties for electronic skin applications. Nature Nanotechnology, 2012, 7, 825-832.	15.6	1,270
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1343	Flexible and highly sensitive artificial electronic skin based on graphene/polyamide interlocking fabric. <i>Journal of Materials Chemistry C</i> , 2018, 6, 6840-6846.	2.7	64
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1361	Reversible humidity-driven tuning of the light scattering properties of PS:PEG-based porous polymer films: Understanding derived from the cross-sensitivity of a luminescent oxygen sensor. <i>Sensors and Actuators B: Chemical</i> , 2019, 298, 126883.	4.0	2
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1365	Energy Scavenging and Powering E-Skin Functional Devices. <i>Proceedings of the IEEE</i> , 2019, 107, 2118-2136.	16.4	34
1366	Hydrophobic, Structure-Tunable Cu Nanowire@Graphene Core-Shell Aerogels for Piezoresistive Pressure Sensing. <i>Advanced Materials Technologies</i> , 2019, 4, 1900470.	3.0	17
1367	An ultraflexible organic differential amplifier for recording electrocardiograms. <i>Nature Electronics</i> , 2019, 2, 351-360.	13.1	114
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1369	Patterned, Flexible, and Stretchable Silver Nanowire/Polymer Composite Films as Transparent Conductive Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 31210-31219.	4.0	98
1370	Self-Healing Metal Interconnect for Flexible Electronic Device. , 2019, , .		1
1371	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
1372	Superhydrophobic, Transparent, and Stretchable 3D Hierarchical Wrinkled Film-Based Sensors for Wearable Applications. <i>Advanced Materials Technologies</i> , 2019, 4, 1900230.	3.0	60
1373	Mini Review on Flexible and Wearable Electronics for Monitoring Human Health Information. <i>Nanoscale Research Letters</i> , 2019, 14, 263.	3.1	172
1374	Stretchable Conductive Fibers of Ultrahigh Tensile Strain and Stable Conductance Enabled by a Worm-Shaped Graphene Microlayer. <i>Nano Letters</i> , 2019, 19, 6592-6599.	4.5	126
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1378	Recent progress in stretchable organic field-effect transistors. <i>Science China Technological Sciences</i> , 2019, 62, 1255-1276.	2.0	18
1379	Nucleotide-Regulated Tough and Rapidly Self-Recoverable Hydrogels for Highly Sensitive and Durable Pressure and Strain Sensors. <i>Chemistry of Materials</i> , 2019, 31, 5881-5889.	3.2	85
1380	Hierarchically Structured Vertical Gold Nanowire Array-Based Wearable Pressure Sensors for Wireless Health Monitoring. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 29014-29021.	4.0	148
1381	Directly 3D-printed monolithic soft robotic gripper with liquid metal microchannels for tactile sensing. <i>Flexible and Printed Electronics</i> , 2019, 4, 035001.	1.5	19

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1388	Strain sensor based on a flexible polyimide ionogel for application in high- and low-temperature environments. <i>Journal of Materials Chemistry C</i> , 2019, 7, 9625-9632.	2.7	50
1389	Polymer-Assisted Metal Deposition (PAMD) for Flexible and Wearable Electronics: Principle, Materials, Printing, and Devices. <i>Advanced Materials</i> , 2019, 31, e1902987.	11.1	128
1390	Deformable and Stretchable Electrodes for Soft Electronic Devices. <i>Macromolecular Research</i> , 2019, 27, 625-639.	1.0	32
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1392	A Self-Conformable Smart Skin with Sensing and Variable Stiffness Functions. <i>Advanced Intelligent Systems</i> , 2019, 1, 1900054.	3.3	14
1393	Conductive MXene Nanocomposite Organohydrogel for Flexible, Healable, Low-Temperature Tolerant Strain Sensors. <i>Advanced Functional Materials</i> , 2019, 29, 1904507.	7.8	560
1394	PEDOT:PSS for Flexible and Stretchable Electronics: Modifications, Strategies, and Applications. <i>Advanced Science</i> , 2019, 6, 1900813.	5.6	563
1395	Flexible Graphene, Graphene Oxide, and Carbon Nanotube-Based Supercapacitors and Batteries. <i>Annalen Der Physik</i> , 2019, 531, 1800507.	0.9	44
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1398	Planar all-solid-state rechargeable Zn-air batteries for compact wearable energy storage. <i>Journal of Materials Chemistry A</i> , 2019, 7, 17581-17593.	5.2	130
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1401	Giant Poisson's Effect for Wrinkle-Free Stretchable Transparent Electrodes. <i>Advanced Materials</i> , 2019, 31, e1902955.	11.1	38
1402	High-Transconductance Stretchable Transistors Achieved by Controlled Gold Microcrack Morphology. <i>Advanced Electronic Materials</i> , 2019, 5, 1900347.	2.6	70
1403	Mechanically Tunable Single-Walled Carbon Nanotube Films as a Universal Material for Transparent and Stretchable Electronics. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 27327-27334.	4.0	52
1404	Whisky tasting using a bimetallic nanoplasmonic tongue. <i>Nanoscale</i> , 2019, 11, 15216-15223.	2.8	23
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1407	Electronic Skin for Closed-Loop Systems. <i>ACS Nano</i> , 2019, 13, 12287-12293.	7.3	103
1408	Electronic Skin: Recent Progress and Future Prospects for Skin-Attachable Devices for Health Monitoring, Robotics, and Prosthetics. <i>Advanced Materials</i> , 2019, 31, e1904765.	11.1	936
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1411	Tailor-Made Engineering of Bioinspired Inks for Writing Barcode-like Multifunctional Sensory Electronics. <i>ACS Sensors</i> , 2019, 4, 2588-2592.	4.0	10
1412	A Flexible Multimodal Sensor That Detects Strain, Humidity, Temperature, and Pressure with Carbon Black and Reduced Graphene Oxide Hierarchical Composite on Paper. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 40613-40619.	4.0	146
1413	Flexible and wearable healthcare sensors for visual reality health-monitoring. <i>Virtual Reality &amp; Intelligent Hardware</i> , 2019, 1, 411-427.	1.8	42
1414	A wearable and sensitive graphene-cotton based pressure sensor for human physiological signals monitoring. <i>Scientific Reports</i> , 2019, 9, 14457.	1.6	34
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1465	Recent progress of solution-processed Cu nanowires transparent electrodes and their applications. <i>RSC Advances</i> , 2019, 9, 26961-26980.	1.7	16
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1468	A low-cost and highly integrated sensing insole for plantar pressure measurement. <i>Sensing and Bio-Sensing Research</i> , 2019, 26, 100298.	2.2	33
1469	Flexible Multimodal Sensors for Electronic Skin: Principle, Materials, Device, Array Architecture, and Data Acquisition Method. <i>Proceedings of the IEEE</i> , 2019, 107, 2065-2083.	16.4	59
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1481	Transparent stretchable capacitive touch sensor grid using ionic liquid electrodes. <i>Extreme Mechanics Letters</i> , 2019, 33, 100574.	2.0	11
1482	High Temperature Sensitivity Pressure Sensors Based on Filter Paper as a Mold. <i>Journal of the Electrochemical Society</i> , 2019, 166, B1286-B1292.	1.3	6
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1484	Sensitivity-Tunable Strain Sensors Based on Carbon Nanotube@Carbon Nanocoil Hybrid Networks. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 38160-38168.	4.0	28
1485	Skin-inspired flexible and high-sensitivity pressure sensors based on rGO films with continuous-gradient wrinkles. <i>Nanoscale</i> , 2019, 11, 4258-4266.	2.8	131
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1511	Large-area, kirigami topology structure-induced highly stretchable and flexible interconnects: Directly printing preparation and mechanic mechanism. <i>Science China Materials</i> , 2019, 62, 1412-1422.	3.5	13
1512	Flexible and Pressure-Responsive Sensors from Cellulose Fibers Coated with Multiwalled Carbon Nanotubes. <i>ACS Applied Electronic Materials</i> , 2019, 1, 1179-1188.	2.0	46
1513	Isoindigo-Based Binary Polymer Blends for Solution-Processing of Semiconducting Nanofiber Networks. <i>ACS Applied Polymer Materials</i> , 2019, 1, 1778-1786.	2.0	13
1514	Highly Durable Nanofiber-Reinforced Elastic Conductors for Skin-Tight Electronic Textiles. <i>ACS Nano</i> , 2019, 13, 7905-7912.	7.3	103
1515	A review on inkjet printing of nanoparticle inks for flexible electronics. <i>Journal of Materials Chemistry C</i> , 2019, 7, 8771-8795.	2.7	303
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1874	Flexible Ecoflex®/Graphene Nanoplatelet Foams for Highly Sensitive Low-Pressure Sensors. <i>Sensors</i> , 2020, 20, 4406.	2.1	22
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1878	Facile Approach to Fabricating Stretchable Organic Transistors with Laser-Patterned Ag Nanowire Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 50675-50683.	4.0	16
1879	Bending Sensors Based on Thin Films of Semitransparent Bithiophene-Fulleropyrrolidine Bisadducts. <i>ChemPlusChem</i> , 2020, 85, 2455-2464.	1.3	3
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1899	Highly-Sensitive Textile Pressure Sensors Enabled by Suspended-Type All Carbon Nanotube Fiber Transistor Architecture. <i>Micromachines</i> , 2020, 11, 1103.	1.4	9
1900	Inkjet Printing of PEDOT:PSS Based Conductive Patterns for 3D Forming Applications. <i>Polymers</i> , 2020, 12, 2915.	2.0	28
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1902	Wireless sensors for continuous, multimodal measurements at the skin interface with lower limb prostheses. <i>Science Translational Medicine</i> , 2020, 12, .	5.8	93
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1904	Integrating Carbon Fiber Based Piezoresistive Composites for Flow Characterization in In-vitro Cell Research Equipment. <i>Procedia CIRP</i> , 2020, 91, 864-868.	1.0	1
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1910	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
1911	Design and Optimization of Piezoresistive PEO/PEDOT:PSS Electrospun Nanofibers for Wearable Flex Sensors. <i>Nanomaterials</i> , 2020, 10, 2166.	1.9	22
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1918	Unveiling Viscoelastic Response of Capacitive-type Pressure Sensor by Controlling Cross-Linking Density and Surface Structure of Elastomer. <i>ACS Applied Polymer Materials</i> , 2020, 2, 2190-2198.	2.0	24
1919	Degradable and highly sensitive CB-based pressure sensor with applications for speech recognition and human motion monitoring. <i>Journal of Materials Science</i> , 2020, 55, 10084-10094.	1.7	14
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1925	Self-cross-linked arrays enabled flexible mechanical sensors for monitoring the body tremor. <i>Npj Flexible Electronics</i> , 2020, 4, .	5.1	12

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1928	Inkjet-Printed Iontronics for Transparent, Elastic, and Strain-Insensitive Touch Sensing Matrix. <i>Advanced Intelligent Systems</i> , 2020, 2, 2000088.	3.3	15
1929	Multifunctional and highly sensitive piezoresistive sensing textile based on a hierarchical architecture. <i>Composites Science and Technology</i> , 2020, 197, 108255.	3.8	66
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1931	Fabrication of a Postfunctionalizable, Biorepellent, Electroactive Polyurethane Interface on a Gold Surface by Surface-Assisted Polymerization. <i>Langmuir</i> , 2020, 36, 6828-6836.	1.6	7
1932	Skin-inspired electronics: emerging semiconductor devices and systems. <i>Journal of Semiconductors</i> , 2020, 41, 041601.	2.0	63
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1934	Enhanced bendability of nanostructured metal electrodes: effect of nanoholes and their arrangement. <i>Nanoscale</i> , 2020, 12, 12898-12908.	2.8	8
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1936	Bio-based omniphobic polyurethane coating providing anti-smudge and anti-corrosion protection. <i>Progress in Organic Coatings</i> , 2020, 148, 105844.	1.9	19
1937	Ionically Conductive Hydrogel with Fast Self-Recovery and Low Residual Strain as Strain and Pressure Sensors. <i>Macromolecular Rapid Communications</i> , 2020, 41, e2000185.	2.0	62
1938	Topological adhesion. I. Rapid and strong topohesives. <i>Extreme Mechanics Letters</i> , 2020, 39, 100803.	2.0	43
1939	High specific energy flexible CuO thin film cathode for thermal batteries. <i>Journal of Power Sources</i> , 2020, 463, 228237.	4.0	23
1940	Skin-Interfaced Sensors in Digital Medicine: from Materials to Applications. <i>Matter</i> , 2020, 2, 1414-1445.	5.0	134
1941	Soft Materials for Wearable/Flexible Electrochemical Energy Conversion, Storage, and Biosensor Devices. <i>Materials</i> , 2020, 13, 2733.	1.3	29
1942	Transparent Supercapacitors: From Optical Theories to Optoelectronics Applications. <i>Energy and Environmental Materials</i> , 2020, 3, 265-285.	7.3	12
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1946	Low-cost foil/paper based touch mode pressure sensing element as artificial skin module for prosthetic hand. , 2020, , .		12
1947	High-performance capacitive strain sensors with highly stretchable vertical graphene electrodes. <i>Journal of Materials Chemistry C</i> , 2020, 8, 5541-5546.	2.7	39
1948	Buckling Instability Control of 1D Nanowire Networks for a Large-Area Stretchable and Transparent Electrode. <i>Advanced Functional Materials</i> , 2020, 30, 1910214.	7.8	42
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1951	Flexible Broad-Range Pressure Sensors Enabled by Deformation-Induced Conductive Channels in 3D Graphene Foam@Polydimethylsiloxane Composite for Precise Vibrational Signal Detection. <i>Chinese Journal of Chemistry</i> , 2020, 38, 719-724.	2.6	7
1952	Winding-Locked Carbon Nanotubes/Polymer Nanofibers Helical Yarn for Ultrastretchable Conductor and Strain Sensor. <i>ACS Nano</i> , 2020, 14, 3442-3450.	7.3	164
1953	Highly Transparent and Flexible Iontronic Pressure Sensors Based on an Opaque to Transparent Transition. <i>Advanced Science</i> , 2020, 7, 2000348.	5.6	121
1954	Polyvinyl Alcohol/SiO <sub>2</sub> Hybrid Dielectric for Transparent Flexible/Stretchable All-Carbon Nanotube Thin-Film Transistor Integration. <i>Advanced Electronic Materials</i> , 2020, 6, 1901133.	2.6	22
1955	Highly sensitive and flexible wearable pressure sensor with dielectric elastomer and carbon nanotube electrodes. <i>Sensors and Actuators A: Physical</i> , 2020, 305, 111941.	2.0	51
1956	Highly Flexible Multilayered e-Skins for Thermal-Magnetic-Mechanical Triple Sensors and Intelligent Grippers. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 15675-15685.	4.0	34
1957	Highly Conductive Self-Healing Biocomposites Based on Protein Mediated Self-Assembly of PEDOT:PSS Films. <i>ACS Applied Bio Materials</i> , 2020, 3, 2507-2515.	2.3	14
1958	MXene Printing and Patterned Coating for Device Applications. <i>Advanced Materials</i> , 2020, 32, e1908486.	11.1	239
1959	Identification and Control of a Nonlinear Soft Actuator and Sensor System. <i>IEEE Robotics and Automation Letters</i> , 2020, 5, 3783-3790.	3.3	17
1960	Flexible Micropillar Array for Pressure Sensing in High Density Using Image Sensor. <i>Advanced Materials Interfaces</i> , 2020, 7, 1902205.	1.9	11
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1967	Periodically inlaid carbon fiber bundles in the surface of honeycomb woven fabric for fabrication of normal pressure sensor. Journal of Materials Science, 2020, 55, 6551-6565.	1.7	16
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1972	One-Rupee Ultrasensitive Wearable Flexible Low-Pressure Sensor. ACS Omega, 2020, 5, 16944-16950.	1.6	27
1973	A Highly Sensitive and Flexible Capacitive Pressure Sensor Based on a Porous Three-Dimensional PDMS/Microsphere Composite. Polymers, 2020, 12, 1412.	2.0	59
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1975	Flexible Humidity and Pressure Sensors Realized by Molding and Inkjet Printing Processes with Sandwich Structure. Macromolecular Materials and Engineering, 2020, 305, 2000287.	1.7	17
1976	Fully stretchable active-matrix organic light-emitting electrochemical cell array. Nature Communications, 2020, 11, 3362.	5.8	106
1977	Real time chemical and mechanical human motion monitoring with aerogel-based wearable sensors. Lab on A Chip, 2020, 20, 2689-2695.	3.1	10
1978	High-Resolution Monolithic Integrated Tribotronic InGaZnO Thin-Film Transistor Array for Tactile Detection. Advanced Functional Materials, 2020, 30, 2002613.	7.8	30
1979	Self-powered user-interactive electronic skin for programmable touch operation platform. Science Advances, 2020, 6, eaba4294.	4.7	112
1980	Facile preparation of patterned silver electrodes with high conductivity, flatness and adjustable work function by laser direct writing followed by transfer process. Applied Surface Science, 2020, 530, 147237.	3.1	8
1981	Orientation-dependent impedance response of highly aligned carbon nanotube sheets. Sensors and Actuators A: Physical, 2020, 313, 112187.	2.0	3

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1983	Ultrathin-metal-film-based transparent electrodes with relative transmittance surpassing 100%. <i>Nature Communications</i> , 2020, 11, 3367.	5.8	123
1984	Self-Powered, Self-Healed, and Shape-Adaptive Ultraviolet Photodetectors. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 9755-9765.	4.0	34
1985	Recent Progress in Transparent Conductors Based on Nanomaterials: Advancements and Challenges. <i>Advanced Materials Technologies</i> , 2020, 5, 1900939.	3.0	44
1986	Recent Progress in 3D Printed Mold-Based Sensors. <i>Sensors</i> , 2020, 20, 703.	2.1	37
1987	Liquidâ€State Optoelectronics Using Liquid Metal. <i>Advanced Electronic Materials</i> , 2020, 6, 1901135.	2.6	14
1988	Application of highly stretchy PDMS-based sensing fibers for sensitive weavable strain sensors. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 4788-4796.	1.1	9
1989	Patterning and applications of nanoporous structures in organic electronics. <i>Nano Today</i> , 2020, 31, 100843.	6.2	22
1990	Ultrathin, Biocompatible, and Flexible Pressure Sensor with a Wide Pressure Range and Its Biomedical Application. <i>ACS Sensors</i> , 2020, 5, 481-489.	4.0	72
1991	Wireless Epidermal Electromyogram Sensing System. <i>Electronics (Switzerland)</i> , 2020, 9, 269.	1.8	12
1992	A Highly Sensitive Piezoresistive Pressure Sensor Based on Graphene Oxide/Polypyrrole@Polyurethane Sponge. <i>Sensors</i> , 2020, 20, 1219.	2.1	43
1993	The low resistance and high sensitivity in stretchable electrode assembled by liquid-phase exfoliated graphene. <i>Polymer</i> , 2020, 192, 122301.	1.8	7
1994	Sustainable manufacturing of sensors onto soft systems using self-coagulating conductive Pickering emulsions. <i>Science Robotics</i> , 2020, 5, .	9.9	50
1995	3D-printed sensors: Current progress and future challenges. <i>Sensors and Actuators A: Physical</i> , 2020, 305, 111916.	2.0	184
1996	Ultrathin Nanofibrous Membranes Containing Insulating Microbeads for Highly Sensitive Flexible Pressure Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 13348-13359.	4.0	69
1997	Flexible electrochemical energy storage: The role of composite materials. <i>Composites Science and Technology</i> , 2020, 192, 108102.	3.8	82
1998	Molybdenum Disulfide Nanosheets Aligned Vertically on Carbonized Silk Fabric as Smart Textile for Wearable Pressure-Sensing and Energy Devices. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 11825-11832.	4.0	67
1999	Enhanced Stretchable and Sensitive Strain Sensor via Controlled Strain Distribution. <i>Nanomaterials</i> , 2020, 10, 218.	1.9	18



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2001	A Skin-Conformal, Stretchable, and Breathable Fiducial Marker Patch for Surgical Navigation Systems. <i>Micromachines</i> , 2020, 11, 194.	1.4	4
2002	1D@0D hybrid dimensional heterojunction-based photonics logical gate and isolator. <i>Applied Materials Today</i> , 2020, 19, 100589.	2.3	19
2003	Visually aided tactile enhancement system based on ultrathin highly sensitive crack-based strain sensors. <i>Applied Physics Reviews</i> , 2020, 7, .	5.5	30
2004	Interactive Color-Changing Electronic Skin Based on Flexible and Piezoelectrically Tunable Quantum Dots Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2020, 8, 1901715.	3.6	10
2005	Lead Zirconate Titanate (a piezoelectric ceramic)-Based thermal and tactile bimodal organic transistor sensors. <i>Organic Electronics</i> , 2020, 80, 105673.	1.4	14
2006	Highly sensitive, piezoresistive, silicone/carbon fiber-based auxetic sensor for low strain values. <i>Sensors and Actuators A: Physical</i> , 2020, 305, 111939.	2.0	43
2007	Thin film chemiresistive gas sensor on single-walled carbon nanotubes-functionalized with polyethylenimine (PEI) for $\text{NO}_2$ gas sensing. <i>Bulletin of Materials Science</i> , 2020, 43, 1.	0.8	29
2008	Bioinspired Microspines for a High-Performance Spray $\text{Ti}_3\text{C}_2\text{T}_x$ MXene-Based Piezoresistive Sensor. <i>ACS Nano</i> , 2020, 14, 2145-2155.	7.3	330
2009	Ionoelastomer junctions between polymer networks of fixed anions and cations. <i>Science</i> , 2020, 367, 773-776.	6.0	188
2010	$\text{Ti}_3\text{C}_2\text{T}_x$ MXene-Reduced Graphene Oxide Composite Electrodes for Stretchable Supercapacitors. <i>ACS Nano</i> , 2020, 14, 3576-3586.	7.3	277
2011	Flexible TPU strain sensors with tunable sensitivity and stretchability by coupling AgNWs with rGO. <i>Journal of Materials Chemistry C</i> , 2020, 8, 4040-4048.	2.7	70
2012	Progress in achieving high-performance piezoresistive and capacitive flexible pressure sensors: A review. <i>Journal of Materials Science and Technology</i> , 2020, 43, 175-188.	5.6	225
2013	Superelastic EGaIn Composite Fibers Sustaining 500% Tensile Strain with Superior Electrical Conductivity for Wearable Electronics. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 6112-6118.	4.0	113
2014	Materials, systems, and devices for wearable bioelectronics. , 2020, , 1-48.		0
2015	E-skin and wearable systems for health care. , 2020, , 133-178.		9
2016	Wearable strain sensor based on highly conductive carbon nanotube/polyurethane composite fibers. <i>Nanotechnology</i> , 2020, 31, 205701.	1.3	20
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2019	Highly Sensitive and Stretchable Carbon Nanotube/Fluoroelastomer Nanocomposite with a Double-Percolated Network for Wearable Electronics. <i>Advanced Electronic Materials</i> , 2020, 6, 1901067.	2.6	41
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2021	Stretchable and tough conductive hydrogels for flexible pressure and strain sensors. <i>Journal of Materials Chemistry B</i> , 2020, 8, 3437-3459.	2.9	372
2022	Microstructured hybrid nanocomposite flexible piezoresistive sensor and its sensitivity analysis by mechanical finite-element simulation. <i>Nanotechnology</i> , 2020, 31, 185502.	1.3	17
2023	A Highly Accurate, Stretchable Touchpad for Robust, Linear, and Stable Tactile Feedback. <i>Advanced Materials Technologies</i> , 2020, 5, 1900864.	3.0	8
2024	Cyber-Physiochemical Interfaces. <i>Advanced Materials</i> , 2020, 32, e1905522.	11.1	64
2025	Interfaceless Strain and Pressure-Sensitive Stretchable Capacitor Based on Self-Bonding and Surface Morphology Control of a Reversibly Crosslinkable Silicone Elastomer. <i>Advanced Materials Technologies</i> , 2020, 5, 1900757.	3.0	5
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2027	Mechanically Interlocked Hydrogel-Elastomer Hybrids for On-Skin Electronics. <i>Advanced Functional Materials</i> , 2020, 30, 1909540.	7.8	120
2028	Covalent interactions between carbon nanotubes and P3HT by thiol-ene click chemistry towards improved thermoelectric performance. <i>Materials Chemistry Frontiers</i> , 2020, 4, 1174-1181.	3.2	10
2029	Review-Recent Progress in Flexible and Stretchable Piezoresistive Sensors and Their Applications. <i>Journal of the Electrochemical Society</i> , 2020, 167, 037561.	1.3	105
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2031	Identification of Upper-Limb Movements Based on Muscle Shape Change Signals for Human-Robot Interaction. <i>Computational and Mathematical Methods in Medicine</i> , 2020, 2020, 1-14.	0.7	10
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2038	Flexible Liquid-Filled Fiber Adapter Enabled Wearable Optical Sensors. <i>Advanced Materials Technologies</i> , 2020, 5, 2000079.	3.0	18
2039	A flexible capacitive pressure sensor based on an electrospun polyimide nanofiber membrane. <i>Organic Electronics</i> , 2020, 84, 105759.	1.4	47
2040	Multimodal Capacitive and Piezoresistive Sensor for Simultaneous Measurement of Multiple Forces. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 22179-22190.	4.0	66
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2042	3D Printed, Customizable, and Multifunctional Smart Electronic Eyeglasses for Wearable Healthcare Systems and Human-Machine Interfaces. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 21424-21432.	4.0	68
2043	Attributes, Fabrication, and Applications of Gallium-Based Liquid Metal Particles. <i>Advanced Science</i> , 2020, 7, 2000192.	5.6	246
2044	Water-Borne Fabrication of Stretchable and Durable Microfibers for High-Performance Underwater Strain Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 20965-20972.	4.0	19
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2047	Capabilities and limitations of 3D printed microserpentine and integrated 3D electrodes for stretchable and conformable biosensor applications. <i>Microsystems and Nanoengineering</i> , 2020, 6, 15.	3.4	31
2048	Fish-inspired anti-icing hydrogel sensors with low-temperature adhesion and toughness. <i>Journal of Materials Chemistry A</i> , 2020, 8, 9373-9381.	5.2	90
2049	Recent Advances in Printed Capacitive Sensors. <i>Micromachines</i> , 2020, 11, 367.	1.4	35
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2057	Microconformal electrode-dielectric integration for flexible ultrasensitive robotic tactile sensing. <i>Nano Energy</i> , 2021, 80, 105580.	8.2	63
2058	An <i>in situ</i> and rapid self-healing strategy enabling a stretchable nanocomposite with extremely durable and highly sensitive sensing features. <i>Materials Horizons</i> , 2021, 8, 250-258.	6.4	24
2059	Ultrathin Biocompatible Electrospun Fiber Films for Self-Powered Human Motion Sensor. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2021, 8, 855-868.	2.7	25
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2061	A new approach for an ultra-thin piezoresistive sensor based on solidified carbon ink film. <i>Journal of Materials Science</i> , 2021, 56, 607-614.	1.7	20
2062	Deformable, resilient, and mechanically-durable triboelectric nanogenerator based on recycled coffee waste for wearable power and self-powered smart sensors. <i>Nano Energy</i> , 2021, 79, 105405.	8.2	47
2063	Transparent Soft Actuators/Sensors and Camouflage Skins for Imperceptible Soft Robotics. <i>Advanced Materials</i> , 2021, 33, e2002397.	11.1	131
2064	Flexible hierarchical helical yarn with broad strain range for self-powered motion signal monitoring and human-machine interactive. <i>Nano Energy</i> , 2021, 80, 105446.	8.2	25
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2068	4D Printing of Stretchable Supercapacitors via Hybrid Composite Materials. <i>Advanced Materials Technologies</i> , 2021, 6, .	3.0	30
2069	Research progress of flexible capacitive pressure sensor for sensitivity enhancement approaches. <i>Sensors and Actuators A: Physical</i> , 2021, 321, 112425.	2.0	113
2070	Strong and highly stretchable ionic conductive elastomer based on hydrogen bonding. <i>Composites Science and Technology</i> , 2021, 201, 108559.	3.8	7
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2073	Microstructured MXene/polyurethane fibrous membrane for highly sensitive strain sensing with ultra-wide and tunable sensing range. <i>Composites Communications</i> , 2021, 23, 100586.	3.3	27
2074	High-resolution integrated piezoresistive sensors for microfluidic monitoring. <i>Lab on A Chip</i> , 2021, 21, 83-92.	3.1	3
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2079	Highly Stretchable Sound-Display Electronics Based on Strain-Insensitive Metallic Nanonetworks. <i>Advanced Science</i> , 2021, 8, 2001647.	5.6	23
2080	Solution-processed deposition based on plant polyphenol for silver conductive coating and its application on human motions detecting sensor. <i>Composites Science and Technology</i> , 2021, 201, 108550.	3.8	8
2081	Surface Modification of Gallium-Based Liquid Metals: Mechanisms and Applications in Biomedical Sensors and Soft Actuators. <i>Advanced Intelligent Systems</i> , 2021, 3, 2000159.	3.3	39
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2085	Stretchable Electronics Based on PDMS Substrates. <i>Advanced Materials</i> , 2021, 33, e2003155.	11.1	319
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2087	Self-healable tactile sensors. , 2021, , 263-289.		0
2088	Production of novel carbon nanostructures by electrochemical reduction of polychlorinated organic rings under mild conditions for supercapacitors. <i>New Journal of Chemistry</i> , 2021, 45, 14765-14778.	1.4	4
2089	Renewable and robust biomass carbon aerogel derived from deep eutectic solvents modified cellulose nanofiber under a low carbonization temperature for oil-water separation. <i>Separation and Purification Technology</i> , 2021, 254, 117577.	3.9	73

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2097	Unconventional Image Sensing and Light-Emitting Devices for Extended Reality. Advanced Functional Materials, 2021, 31, 2009281.	7.8	23
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2109	Wearable triboelectric sensors for biomedical monitoring and human-machine interface. <i>IScience</i> , 2021, 24, 102027.	1.9	125
2110	A hierarchical porous carbon-nanotube skeleton for sensing films with ultrahigh sensitivity, stretchability, and mechanical compliance. <i>Journal of Materials Chemistry A</i> , 2021, 9, 4317-4325.	5.2	11
2111	Biomimetic Soft Polymer Microstructures and Piezoresistive Graphene MEMS Sensors Using Sacrificial Metal 3D Printing. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 1094-1104.	4.0	36
2112	Facile fabrication and low-temperature bonding of Cu@Sn@Bi core-shell particles for conductive pastes. <i>RSC Advances</i> , 2021, 11, 26408-26414.	1.7	1
2113	Extending Porous Silicone Capacitive Pressure Sensor Applications into Athletic and Physiological Monitoring. <i>Sensors</i> , 2021, 21, 1119.	2.1	9
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2119	Carbon Nanotubes-Coated Conductive Elastomer: Electrical and Near Infrared Light Dual-Stimulated Shape Memory, Self-Healing, and Wearable Sensing. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 2954-2961.	1.8	21
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2122	Facile Post Treatment of Ag Nanowire/Polymer Composites for Flexible Transparent Electrodes and Thin Film Heaters. <i>Polymers</i> , 2021, 13, 586.	2.0	20
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2132	Mechanoluminescence Rebrightening the Prospects of Stress Sensing: A Review. <i>Advanced Materials</i> , 2021, 33, e2005925.	11.1	181
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2485	Progress of flexible strain sensors for physiological signal monitoring. <i>Biosensors and Bioelectronics</i> , 2022, 211, 114298.	5.3	59
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2491	Pristine carbon nanotubes are efficient absorbers at radio frequencies. <i>Nanotechnology</i> , 2022, , .	1.3	2
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2495	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
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2497	Multi-factor-controlled ReRAM devices and their applications. <i>Journal of Materials Chemistry C</i> , 2022, 10, 8895-8921.	2.7	22
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2510	Functional optical design of thickness-optimized transparent conductive dielectric-metal-dielectric plasmonic structure. <i>Scientific Reports</i> , 2022, 12, .	1.6	9
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