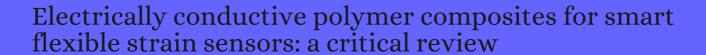
# CITATION REPORT List of articles citing



DOI: 10.1039/c8tc04079f Journal of Materials Chemistry C, 2018, 6, 12121-12141.

**Source:** https://exaly.com/paper-pdf/70124241/citation-report.pdf

Version: 2024-04-17

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

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

#	Paper	IF	Citations
440	Highly efficient uranium adsorption by salicylaldoxime/polydopamine graphene oxide nanocomposites. <b>2018</b> , 6, 24676-24685		220
439	Simultaneous Determination of Catechol and Hydroquinone Using Non-Enzymatic Co3O4@carbon Core/Shell Composites Based Sensor. <b>2019</b> , 166, B1069-B1078		21
438	. <b>2019</b> , 19, 10373-10378		3
437	High-performance functional nanocomposites using 3D ordered and continuous nanostructures generated from proximity-field nanopatterning. <b>2019</b> , 1, 032002		19
436	Effect of graphene liquid crystal on dielectric properties of polydimethylsiloxane nanocomposites. <b>2019</b> , 176, 107338		56
435	Highly stable kirigami-structured stretchable strain sensors for perdurable wearable electronics. Journal of Materials Chemistry C, <b>2019</b> , 7, 9609-9617	7.1	67
434	Investigation of the constancy of the MWCNTs on the fibres surface for manufactured self-sensing composites. <b>2019</b> , 173, 106998		12
433	Highly Stretchable, Transparent, and Bio-Friendly Strain Sensor Based on Self-Recovery Ionic-Covalent Hydrogels for Human Motion Monitoring. <b>2019</b> , 304, 1900227		47
432	Stretchable Conductive Hybrid Films Consisting of Cubic Silsesquioxane-capped Polyurethane and Poly(3-hexylthiophene). <b>2019</b> , 11,		7
431	Friction and Wear of MoO3/Graphene Oxide Modified Glass Fiber Reinforced Epoxy Nanocomposites. <b>2019</b> , 304, 1900166		79
430	High-performance strain sensor based on a 3D conductive structure for wearable electronics. <b>2019</b> , 52, 395401		9
429	Novel Ultrathin Layered Double Hydroxide Nanosheets with In Situ Formed Oxidized Phosphorus as Anions for Simultaneous Fire Resistance and Mechanical Enhancement of Thermoplastic Polyurethane. <b>2019</b> , 1, 1979-1990		11
428	Highly Compressible and Robust Polyimide/Carbon Nanotube Composite Aerogel for High-Performance Wearable Pressure Sensor. <b>2019</b> , 11, 42594-42606		134
427	Fluorescent sensing platform for the detection of p-nitrophenol based on Cu-doped carbon dots. <b>2019</b> , 97, 109396		19
426	A Flexible Multimodal Sensor That Detects Strain, Humidity, Temperature, and Pressure with Carbon Black and Reduced Graphene Oxide Hierarchical Composite on Paper. <b>2019</b> , 11, 40613-40619		75
425	Development of an off-on selective fluorescent sensor for the detection of Fe3+ ions based on Schiff base and its Hirshfeld surface and DFT studies. <b>2019</b> , 296, 111814		15
424	Effect of Nano-Materials on Autogenous Shrinkage Properties of Cement Based Materials. <b>2019</b> , 11, 1144		13

## (2019-2019)

423	Three-dimensional Interconnected Nanosheet Architecture as a Transition Layer and Nanocontainer for Interfacial Enhancement of Carbon Fiber/Epoxy Composites. <b>2019</b> , 58, 21441-21451		5
422	Facile Fabrication of Multifunctional Polymer Composites Based on Three-Dimensional Interconnected Networks of Graphene and Carbon Nanotubes. <b>2019</b> , 58, 21531-21541		15
421	Properties of conductive polymer hydrogels and their application in sensors. <b>2019</b> , 57, 1606-1621		32
420	Alternating Multilayer Structural Epoxy Composite Coating for Corrosion Protection of Steel. <b>2019</b> , 304, 1900374		61
419	097 Novel Genomic Signature Predicts Response to Ruxolitinib Cream in Psoriasis. <b>2019</b> , 139, S231		
418	Flexible polyaniline-coated poplar fiber composite membranes with effective electromagnetic shielding performance. <b>2019</b> , 170, 108990		16
417	Adjusting Distribution of Multiwall Carbon Nanotubes in Poly(L-lactide)/Poly(oxymethylene) Blends via Constructing Stereocomplex Crystallites: Toward Conductive and Microwave Shielding Enhancement. <b>2019</b> , 123, 27884-27895		14
416	Hollow-structured MXene-PDMS composites as flexible, wearable and highly bendable sensors with wide working range. <b>2019</b> , 555, 751-758		55
415	Ultralightweight and 3D Squeezable Graphene-Polydimethylsiloxane Composite Foams as Piezoresistive Sensors. <b>2019</b> , 11, 35201-35211		47
414	Carbide-bonded graphene coated zirconia for achieving rapid thermal cycling under low input voltage and power. <b>2019</b> , 45, 24318-24323		2
413	A graphene rheostat for highly durable and stretchable strain sensor. <b>2019</b> , 1, 396-406		22
412	Ultrasensitive electrochemical detection of ochratoxin A based on signal amplification by one-pot synthesized flower-like PEDOT-AuNFs supported on a graphene oxide sponge. <b>2019</b> , 144, 5866-5874		19
411	3-Dimensional graphene/Cu/Fe3O4 composites: Immobilized laccase electrodes for detecting bisphenol A. <b>2019</b> , 34, 2964-2975		72
410	An overview of stretchable strain sensors from conductive polymer nanocomposites. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 11710-11730	7.1	199
409	Highly sensitive capacitive pressure sensors based on elastomer composites with carbon filler hybrids. <b>2019</b> , 126, 105614		29
408	Boosted selectivity and enhanced capacity of As(V) removal from polluted water by triethylenetetramine activated lignin-based adsorbents. <b>2019</b> , 140, 1167-1174		56
407	High-performance coaxial wire-shaped supercapacitors using ionogel electrolyte toward sustainable energy system. <b>2019</b> , 34, 3030-3039		62
406	A Highly Sensitive and Stretchable Yarn Strain Sensor for Human Motion Tracking Utilizing a Wrinkle-Assisted Crack Structure. <b>2019</b> , 11, 36052-36062		82

405	Stretchable conductive nonwoven fabrics with self-cleaning capability for tunable wearable strain sensor. <b>2019</b> , 66, 104143		154	
404	Urchin-like NiO-NiCoO heterostructure microsphere catalysts for enhanced rechargeable non-aqueous Li-O batteries. <b>2018</b> , 11, 50-59		97	
403	Microwave solvothermal carboxymethyl chitosan templated synthesis of TiO/ZrO composites toward enhanced photocatalytic degradation of Rhodamine B. <b>2019</b> , 541, 18-29		196	
402	Smart strain sensing organicIhorganic hybrid hydrogels with nano barium ferrite as the cross-linker. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 2353-2360	7.1	116	
401	Tunable negative permittivity and magnetic performance of yttrium iron garnet/polypyrrole metacomposites at the RF frequency. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 3160-3167	7.1	68	
400	Superhydrophobic Electrically Conductive Paper for Ultrasensitive Strain Sensor with Excellent Anticorrosion and Self-Cleaning Property. <b>2019</b> , 11, 21904-21914		162	
399	Ultrahigh stress response and storage properties in a single CdS nanobelt-based flexible device for an erasable nonvolatile stress sensing and memory effect. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 76	55 <b>7</b> - <del>7</del> 66	3 <sup>3</sup>	
398	Epoxy nanocomposites significantly toughened by both poly(sulfone) and graphene oxide. <b>2019</b> , 14, 55-60		29	
397	Recent Advances in Polymer and Polymer Composites for Electromagnetic Interference Shielding: Review and Future Prospects. <b>2019</b> , 59, 687-738		74	
396	Structural characterization of lignin from D. sinicus by FTIR and NMR techniques. <b>2019</b> , 12, 235-243		66	
395	Real-time strain monitoring performance of flexible Nylon/Ag conductive fiber. <b>2019</b> , 295, 612-622		12	
394	Highly Sensitive and Stretchable Polyurethane Fiber Strain Sensors with Embedded Silver Nanowires. <b>2019</b> , 11, 23649-23658		75	
393	Processing conditions dependent tunable negative permittivity in reduced graphene oxide-alumina nanocomposites. <b>2019</b> , 45, 17784-17792		36	
392	Space resolution improvement for pressure measurement by using a single conductive polymer composite sheet in area array. <b>2019</b> , 295, 324-335		2	
391	Simultaneous improvement of thermal conductivities and electromagnetic interference shielding performances in polystyrene composites via constructing interconnection oriented networks based on electrospinning technology. <b>2019</b> , 124, 105484		61	
390	Achieving high electrical conductivity and excellent electromagnetic interference shielding in poly(lactic acid)/silver nanocomposites by constructing large-area silver nanoplates in polymer matrix. <b>2019</b> , 171, 204-213		54	
389	Sensitive conductive polymer nanocomposites from multiwalled carbon nanotube coated with polypyrrole and hydroxyl-terminated poly(butadiene-co-acrylonitile) polyurethane for detection of chloroform vapor. <b>2019</b> , 173, 106894		4	
388	Stretchable elastomer composites with segregated filler networks: effect of carbon nanofiller dimensionality. <b>2019</b> , 1, 2337-2347		22	

#### (2019-2019)

387	Carbon Nanotube/Polyolefin Elastomer Metacomposites with Adjustable Radio-Frequency Negative Permittivity and Negative Permeability. <b>2019</b> , 5, 1900011		27
386	Ultrastretchable Conductive Polymer Complex as a Strain Sensor with a Repeatable Autonomous Self-Healing Ability. <b>2019</b> , 11, 20453-20464		59
385	Free volume correlation with ac conductivity and thermo-mechanical properties of poly (ethylene oxide)-silica nanocomposites. <b>2019</b> , 117, 10-18		9
384	Photoluminescence Properties in Aliphatic-Aromatic Biodegradable Polymers Induced by Low Energy Radiation. <b>2019</b> , 4, 103-109		
383	Synergistically Toughening Polyoxymethylene by Methyl Methacrylate <b>B</b> utadiene <b>B</b> tyrene Copolymer and Thermoplastic Polyurethane. <b>2019</b> , 220, 1800567		61
382	Three-dimensional core-shell Fe3O4/Polyaniline coaxial heterogeneous nanonets: Preparation and high performance supercapacitor electrodes. <b>2019</b> , 315, 114-123		199
381	Improvement of piezoresistive sensing behavior of graphene sponge by polyaniline nanoarrays. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 7386-7394	7.1	21
380	Achieving highly electrical conductivity and piezoresistive sensitivity in polydimethylsiloxane/multi-walled carbon nanotube composites via the incorporation of silicon dioxide micro-particles. <b>2019</b> , 177, 41-48		37
379	Experimental test on an RC beam equipped with embedded barometric pressure sensors for strains measurement. <b>2019</b> , 28, 055040		5
378	Doped State and Solubility Changes in PEDOT:PSS Thin Films by High-Energy Gamma-Ray Irradiation. <b>2019</b> , 216, 1800980		4
377	Fabrication of 1D Zn2SnO4 nanowire and 2D ZnO nanosheet hybrid hierarchical structures for use in triethylamine gas sensors. <b>2019</b> , 291, 155-163		61
376	Atomistic Descriptions of the cis-1,4-Polybutadiene/Silica Interfaces. <b>2019</b> , 1, 969-981		14
375	Multifunctional sensing platform with pulsed-laser-deposited silver nanoporous structures. <b>2019</b> , 293, 136-144		2
374	Construction of pyridinium/N-chloramine polysiloxane on cellulose for synergistic biocidal application. <b>2019</b> , 26, 5033-5049		10
373	A Multifunctional Wearable Device with a Graphene/Silver Nanowire Nanocomposite for Highly Sensitive Strain Sensing and Drug Delivery. <b>2019</b> , 5, 17		12
372	Gel-Based Artificial Photonic Skin to Sense a Gentle Touch by Reflection. <b>2019</b> , 11, 15195-15200		6
371	Carbon nanomaterials based films for strain sensing application A review. 2019, 18, 100312		34
370	Flexible Sandwich Structural Strain Sensor Based on Silver Nanowires Decorated with Self-Healing Substrate. <b>2019</b> , 304, 1900074		138

369	Biomass-codoped carbon dots: efficient fluorescent probes for isocarbophos ultrasensitive detection and for living cells dual-color imaging. <b>2019</b> , 54, 8627-8639	10
368	Carbon nanospheres induced high negative permittivity in nanosilver-polydopamine metacomposites. <b>2019</b> , 147, 550-558	165
367	Ionic liquid enabled electrical-strain tuning capability of carbon black based conductive polymer composites for small-strain sensors and stretchable conductors. <b>2019</b> , 174, 202-211	27
366	Enhanced Solid Particle Erosion Properties of Thermoplastic Polyurethane-Carbon Nanotube Nanocomposites. <b>2019</b> , 304, 1900010	41
365	Metal complex hybrid composites based on fullerene-bearing porous polycarbazole for H2, CO2 and CH4 uptake and heterogeneous hydrogenation catalysis. <b>2019</b> , 169, 255-262	55
364	Remarkably Strengthened microinjection molded linear low-density polyethylene (LLDPE) via multi-walled carbon nanotubes derived nanohybrid shish-kebab structure. <b>2019</b> , 167, 362-369	42
363	Nanocomposite sponges of sodium alginate/graphene oxide/polyvinyl alcohol as potential wound dressing: In vitro and in vivo evaluation. <b>2019</b> , 167, 396-405	180
362	Highly Sensitive, Ultrastretchable Strain Sensors Prepared by Pumping Hybrid Fillers of Carbon Nanotubes/Cellulose Nanocrystal into Electrospun Polyurethane Membranes. <b>2019</b> , 11, 12968-12977	87
361	Highly stretchable multi-walled carbon nanotube/thermoplastic polyurethane composite fibers for ultrasensitive, wearable strain sensors. <b>2019</b> , 11, 5884-5890	103
360	Highly Stretchable, Adaptable, and Durable Strain Sensing Based on a Bioinspired Dynamically Cross-Linked Graphene/Polymer Composite. <b>2019</b> , 15, e1900848	47
359	Facile Preparation of Highly Conductive Poly(amide-imide) Composite Films beyond 1000 S m through Ternary Blend Strategy. <b>2019</b> , 11,	15
358	Programmable three-dimensional advanced materials based on nanostructures as building blocks for flexible sensors. <b>2019</b> , 26, 176-198	44
357	Asymmetric deformation in poly(ethylene-co-1-octene)/multi-walled carbon nanotube composites with glass micro-beads for highly piezoresistive sensitivity. <b>2019</b> , 370, 176-184	22
356	AlSi10Mg alloy nanocomposites reinforced with aluminum-coated graphene: Selective laser melting, interfacial microstructure and property analysis. <b>2019</b> , 792, 203-214	114
355	Ultrasensitive and Highly Compressible Piezoresistive Sensor Based on Polyurethane Sponge Coated with a Cracked Cellulose Nanofibril/Silver Nanowire Layer. <b>2019</b> , 11, 10922-10932	242
354	Intracellular Polymer Substances Induced Conductive Polyaniline for Improved Methane Production from Anaerobic Wastewater Treatment. <b>2019</b> , 7, 5912-5920	89
353	Water Transfer Printing Enhanced by Water-Induced Pattern Expansion: Toward Large-Area 3D Electronics. <b>2019</b> , 4, 1800600	22
352	Flexural properties of multiscale nanocomposites containing multiwalled carbon nanotubes coated glass fabric in epoxy/graphene matrix. <b>2019</b> , 26, 935-962	21

# (2020-2019)

351	Structural strategies to design bio-ionic liquid: Tuning molecular interaction with lignin for enhanced lubrication. <b>2019</b> , 280, 49-57	8
350	Thermal Degradation Behavior and Kinetics of 3D Porous Polycarbonate Monoliths. <b>2019</b> , 304, 1800667	10
349	Experimental study on thermal expansion coefficient of composite multi-layered flaky gun propellants. <b>2019</b> , 166, 428-435	57
348	Enhancing thermal oxidation and fire resistance of reduced graphene oxide by phosphorus and nitrogen co-doping: Mechanism and kinetic analysis. <b>2019</b> , 146, 650-659	60
347	Amino graphene oxide/dopamine modified aramid fibers: Preparation, epoxy nanocomposites and property analysis. <b>2019</b> , 168, 131-137	125
346	Efficient preparation of PDMS-based conductive composites using self-designed automatic equipment and an application example. <b>2019</b> , 39, 892-901	7
345	Embedded optical nanosensors for monitoring the processing and performance of polymer matrix composites. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 14471-14492	2
344	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> , <b>2019</b> , 7, 13468-134 $76^1$	41
343	Recent advances in lithographic fabrication of micro-/nanostructured polydimethylsiloxanes and their soft electronic applications. <b>2019</b> , 40, 111605	18
342	Structural characterization of lignin and its carbohydrate complexes isolated from bamboo (Dendrocalamus sinicus). <b>2019</b> , 126, 376-384	76
341	Ordered assemblies of Fe3O4 and a donor-acceptor-type Econjugated polymer in nanoparticles for enhanced photoacoustic and magnetic effects. <b>2019</b> , 161, 205-213	8
340	Achieving superior electromagnetic wave absorbers through the novel metal-organic frameworks derived magnetic porous carbon nanorods. <b>2019</b> , 145, 433-444	281
339	Tunable temperature-resistivity behaviors of carbon black/polyamide 6 /high-density polyethylene composites with conductive electrospun PA6 fibrous network. <b>2019</b> , 53, 1897-1906	5
338	Efficient H2 gas sensor based on 2D SnO2 disks: Experimental and theoretical studies. <b>2020</b> , 45, 26388-26401	27
337	Visible light driven photocatalytic activity of ZnO/CuO nanocomposites coupled with rGO heterostructures synthesized by solid-state method for RhB dye degradation. <b>2020</b> , 13, 3910-3928	39
336	Carbon nanotubes reinforced hydrogel as flexible strain sensor with high stretchability and mechanically toughness. <b>2020</b> , 382, 122832	159
335	Thermal Transport in Conductive Polymer <b>B</b> ased Materials. <b>2020</b> , 30, 1904704	60
334	Ultrasensitive Multifunctional Magnetoresistive Strain Sensor Based on Hair-Like Magnetization-Induced Pillar Forests. <b>2020</b> , 6, 1900653	16

333	Synthesis, crystal structure and magnetic property of 30-membered decanuclear manganese metallacrown with N-cyclohexanoylsalicylhydrazide ligand. <b>2020</b> , 111, 107606	2
332	Textile structured metacomposites with tailorable negative permittivity under X and Ku band. <b>2020</b> , 185, 108270	11
331	Fiber/Fabric-Based Piezoelectric and Triboelectric Nanogenerators for Flexible/Stretchable and Wearable Electronics and Artificial Intelligence. <b>2020</b> , 32, e1902549	450
330	Plasma modification of PU foam for piezoresistive sensor with high sensitivity, mechanical properties and long-term stability. <b>2020</b> , 381, 122666	35
329	Dual conductive network enabled superhydrophobic and high performance strain sensors with outstanding electro-thermal performance and extremely high gauge factors. <b>2020</b> , 385, 123391	81
328	Hydrogen bonding derived self-healing polymer composites reinforced with amidation carbon fibers. <b>2020</b> , 31, 025704	37
327	Multifunctional Ultrastretchable Printed Soft Electronic Devices for Wearable Applications. <b>2020</b> , 6, 1900922	33
326	Creating oxygen vacancies on porous indium oxide nanospheres via metallic aluminum reduction for enhanced nitrogen dioxide detection at low temperature. <b>2020</b> , 303, 127221	29
325	Fabrication of a strain sensor from a thermoplastic vulcanizate with an embedded interconnected conducting filler network. <b>2020</b> , 130, 105763	19
324	Polydopamine/polystyrene nanocomposite double-layer strain sensor hydrogel with mechanical, self-healing, adhesive and conductive properties. <b>2020</b> , 109, 110567	28
323	Enhanced piezoresistive performance of conductive WPU/CNT composite foam through incorporating brittle cellulose nanocrystal. <b>2020</b> , 387, 124045	69
322	A semi-interpenetrating network ionic hydrogel for strain sensing with high sensitivity, large strain range, and stable cycle performance. <b>2020</b> , 385, 123912	58
321	Strain-rate independent small-strain-sensor: Enhanced responsiveness of carbon black filled conductive rubber composites at slow deformation by using an ionic liquid. <b>2020</b> , 188, 107972	10
320	Polyaniline crystalline nanostructures dependent negative permittivity metamaterials. <b>2020</b> , 188, 122129	44
319	Fabrication of hollow ZnO-CoO nanocomposite derived from bimetallic-organic frameworks capped with Pd nanoparticles and MWCNTs for highly sensitive detection of tanshinol drug. <b>2020</b> , 108, 110214	13
318	Tunneling-induced negative permittivity in Ni/MnO nanocomposites by a bio-gel derived strategy.  Journal of Materials Chemistry C, <b>2020</b> , 8, 3029-3039	146
317	High-Performance Wearable Strain Sensor Based on Graphene/Cotton Fabric with High Durability and Low Detection Limit. <b>2020</b> , 12, 1474-1485	61
316	Self-standing Substrates. <b>2020</b> ,	1

## (2020-2020)

315	and sensitivity via filler sedimentation. <b>2020</b> , 186, 107933	17
314	Flexible and Degradable Multimodal Sensor Fabricated by Transferring Laser-Induced Porous Carbon on Starch Film. <b>2020</b> , 8, 527-533	22
313	A novel combination of graphene and silver nanowires for entirely stretchable and ultrasensitive strain sensors: sandwich-based sensing films. <b>2020</b> , 31, 135501	9
312	Facile Fabrication of 3D Porous Sponges Coated with Synergistic Carbon Black/Multiwalled Carbon Nanotubes for Tactile Sensing Applications. <b>2020</b> , 10,	11
311	Fabrication, Design and Application of Stretchable Strain Sensors for Tremor Detection in Parkinson Patient. <b>2020</b> , 27, 955-968	5
310	Flexible and breathable strain sensor with high performance based on MXene/nylon fabric network. <b>2020</b> , 315, 112192	20
309	A breathable, sensitive and wearable piezoresistive sensor based on hierarchical micro-porous PU@CNT films for long-term health monitoring. <b>2020</b> , 200, 108419	17
308	Flexible, Strong, Multifunctional Graphene Oxide/Silica-Based Composite Aerogels via a Double-Cross-Linked Network Approach. <b>2020</b> , 12, 47854-47864	13
307	Stretchable Strain Sensor for Human Motion Monitoring Based on an Intertwined-Coil Configuration. <b>2020</b> , 10,	6
306	Electronic tongue and cyclic voltammetric sensors based on carbon nanotube/polylactic composites fabricated by fused deposition modelling 3D printing. <b>2020</b> , 117, 111319	17
305	Highly aligned carbon nanotubes and their sensor applications. <b>2020</b> , 12, 21447-21458	14
304	3D geometrically structured PANI/CNT-decorated polydimethylsiloxane active pressure and temperature dual-parameter sensors for manthachine interaction applications. <b>2020</b> , 8, 15167-15176	22
303	Carbon nanotubes/acetylene black/Ecoflex with corrugated microcracks for enhanced sensitivity for stretchable strain sensors. <b>2020</b> , 31, 14145-14156	3
302	Enhancement of linearity range of stretchable ultrasensitive metal crack strain sensor via superaligned carbon nanotube-based strain engineering. <b>2020</b> , 7, 2662-2672	22
301	Micro-supercapacitors powered integrated system for flexible electronics. 2020, 32, 402-417	21
300	Flexible Pressure Sensors for Biomedical Applications: From Ex Vivo to In Vivo. <b>2020</b> , 7, 2000743	23
299	Efficient Upper Limb Position Estimation Based on Angular Displacement Sensors for Wearable Devices. <b>2020</b> , 20,	1
298	Bioinspired design of flexible strain sensor with high performance based on gradient filler distributions. <b>2020</b> , 200, 108319	4

297	Role of Ionic Liquids in Composites in Analytical Sample Preparation. <b>2020</b> , 7, 37	18
296	An elegant coupling: Freeze-casting and versatile polymer composites. <b>2020</b> , 109, 101289	26
295	High-strength, flexible and cycling-stable piezo-resistive polymeric foams derived from thermoplastic polyurethane and multi-wall carbon nanotubes. <b>2020</b> , 199, 108279	25
294	Electric Heating Behavior of Reduced Oxide Graphene/Carbon Nanotube/Natural Rubber Composites with Macro-Porous Structure and Segregated Filler Network. <b>2020</b> , 12,	10
293	Scalable fabrication of flexible piezoresistive pressure sensors based on occluded microstructures for subtle pressure and force waveform detection. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 16774-16783 <sup>1</sup>	9
292	Nanocomposite hydrogel-based strain and pressure sensors: a review. <b>2020</b> , 8, 18605-18623	83
291	Flexible conductive MXene/cellulose nanocrystal coated nonwoven fabrics for tunable wearable strain/pressure sensors. <b>2020</b> , 8, 21131-21141	80
290	A near infrared induced self-healable composite based on disulfide bonds for flexible electronics. <b>2020</b> , 27, 1	3
289	Kirigami-Enabled Microwave Resonator Arrays for Wireless, Flexible, Passive Strain Sensing. <b>2020</b> , 12, 44256-44264	18
288	Biocompatible, Flexible Strain Sensor Fabricated with Polydopamine-Coated Nanocomposites of Nitrile Rubber and Carbon Black. <b>2020</b> , 12, 42140-42152	27
287	Compressible sliver nanowires/polyurethane sponge metacomposites with weakly negative permittivity controlled by elastic deformation. <b>2020</b> , 55, 15481-15492	13
286	Flexible Hybrid Sensor Systems with Feedback Functions. <b>2020</b> , 31, 2007436	28
285	Inkjet-Printed Wearable Nanosystems for Self-Powered Technologies. <b>2020</b> , 7, 2000015	24
284	Suppressing the negative temperature coefficient effect of resistance in polymer composites with positive temperature coefficients of resistance by coating with parylene. <i>Journal of Materials</i> 7.1 <i>Chemistry C</i> , <b>2020</b> , 8, 7304-7308	6
283	Ultrasensitive piezoresistive strain sensors based on CNTs/Ag-NPs coated highly stretchable textile. <b>2020</b> , 31, 9870-9877	2
282	Fabrication of Novel Ag Flake Composite Films Using a CMC/PEI Cross-Linking Process. <b>2020</b> , 16, 332-339	2
281	Selective crack formation on stretchable silver nano-particle based thin films for customized and integrated strain-sensing system. <b>2020</b> , 707, 138068	5
280	Highly stretchable strain sensors based on polypyrrole-silicone rubber composites for human motion detection. <b>2020</b> , 312, 112131	15

#### (2020-2020)

279	Three dimensional core-shell structured liquid metal/elastomer composite via coaxial direct ink writing for electromagnetic interference shielding. <b>2020</b> , 136, 105957	19
278	Compression-induced electrical percolation and enhanced mechanical properties of polydimethylsiloxane-based nanocomposites. <b>2020</b> , 55, 10611-10625	2
277	The surface plasmonic welding of silver nanowires via intense pulsed light irradiation combined with NIR for flexible transparent conductive films. <b>2020</b> , 12, 17725-17737	18
276	Swelling mechanism in smart polymers responsive to mechano-chemical stimuli. <b>2020</b> , 143, 104011	10
275	Flexible, Conformable Organic Semiconductor Proximity Sensor Array for Electronic Skin. <b>2020</b> , 7, 2000306	10
274	Highly porous, soft, and flexible vapor-phase polymerized polypyrrole-styrene-ethylene-butylene-styrene hybrid scaffold as ammonia and strain sensor <b>2020</b> , 10, 22533-22541	7
273	Thermoplastic elastomer composite filaments for strain sensing applications extruded with a fused deposition modelling 3D printer. <b>2020</b> , 5, 035002	10
272	3D printing of cell-laden electroconductive bioinks for tissue engineering applications. <b>2020</b> , 8, 5862-5876	34
271	Wearable and Stretchable Strain Sensors: Materials, Sensing Mechanisms, and Applications. <b>2020</b> , 2, 2000039	120
270	Microwave-assisted selective heating to rapidly construct a nano-cracked hollow sponge for stretch sensing. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 9391-9400	12
269	Metal-graphene hybrid active chiral metasurfaces for dynamic terahertz wavefront modulation and near field imaging. <b>2020</b> , 163, 34-42	60
268	Highly stretchable and sensitive strain sensors based on carbon nanotubellastomer nanocomposites: the effect of environmental factors on strain sensing performance. <i>Journal of 7.1 Materials Chemistry C</i> , <b>2020</b> , 8, 6185-6195	26
267	A facile and simple approach to synthesis and characterization of methacrylated graphene oxide nanostructured polyaniline nanocomposites. <b>2020</b> , 9, 53-60	24
266	Ultrasensitive MWCNT/PDMS composite strain sensor fabricated by laser ablation process. <b>2020</b> , 192, 108105	33
265	Piezoresistive Elastomer-Based Composite Strain Sensors and Their Applications. <b>2020</b> , 2, 1826-1842	24
264	Flexible electrochemical biosensors for healthcare monitoring. <b>2020</b> , 8, 7303-7318	25
263	Recent Progress in Transparent Conductors Based on Nanomaterials: Advancements and Challenges. <b>2020</b> , 5, 1900939	20
262	Synthesis of carbon nanotubes with controllable diameter by chemical vapor deposition of methane using Fe@Al2O3 coreBhell nanocomposites. <b>2020</b> , 217, 115541	15

261	Screen-Printed Flexible Strain Sensors with Ag Nanowires for Intelligent and Tamper-Evident Packaging Applications. <b>2020</b> , 5, 1901097	13
260	Natural Biopolymers for Flexible Sensing and Energy Devices. <b>2020</b> , 38, 459-490	41
259	Humidity-resistive, elastic, transparent ion gel and its use in a wearable, strain-sensing device. <b>2020</b> , 8, 6013-6021	17
258	Achieving enhanced electromagnetic shielding and absorption capacity of cellulose-derived carbon aerogels via tuning the carbonization temperature. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 5191-5201 $^{7.1}$	23
257	Modular Soft Robotics: Modular Units, Connection Mechanisms, and Applications. 2020, 2, 1900166	18
256	Multifunctional conductive cellulose fabric with flexibility, superamphiphobicity and flame-retardancy for all-weather wearable smart electronic textiles and high-temperature warning device. <b>2020</b> , 390, 124508	55
255	Flexible conductive Ag nanowire/cellulose nanofibril hybrid nanopaper for strain and temperature sensing applications. <b>2020</b> , 65, 899-908	95
254	2D Percolation Design with Conductive Microparticles for Low-Strain Detection in a Stretchable Sensor. <b>2020</b> , 30, 1908514	19
253	Highly enhanced electrical and mechanical properties of methyl methacrylate modified natural rubber filled with multiwalled carbon nanotubes. <b>2020</b> , 85, 106417	11
252	Flexible TPU strain sensors with tunable sensitivity and stretchability by coupling AgNWs with rGO.  Journal of Materials Chemistry C, <b>2020</b> , 8, 4040-4048	35
251	Facile Fabrication of Multifunctional Poly(ethylene-co-octene)/Carbon Nanotube Foams Based on Tunable Conductive Network. <b>2020</b> , 59, 1934-1943	16
250	Transparent, high-strength, stretchable, sensitive and anti-freezing poly(vinyl alcohol) ionic hydrogel strain sensors for human motion monitoring. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 2827-2837	53
249	Multifunctional Conductive Hydrogel/Thermochromic Elastomer Hybrid Fibers with a Core-Shell Segmental Configuration for Wearable Strain and Temperature Sensors. <b>2020</b> , 12, 7565-7574	55
248	A superhydrophobic fluorinated PDMS composite as a wearable strain sensor with excellent mechanical robustness and liquid impalement resistance. <b>2020</b> , 8, 3509-3516	67
247	Chemically and mechanically robust SWCNT based strain sensor with monotonous piezoresistive response for infrastructure monitoring. <b>2020</b> , 388, 124174	13
246	Polydimethylsiloxane-based nanocomposite: present research scenario and emergent future trends. <b>2020</b> , 59, 1148-1166	14
245	Manufacturing High Sensitive Strain Sensor of Polyurethane Nanofiber Mat/AgNWs by Simple Dip-dry Method. <b>2020</b> , 21, 359-365	3
244	Electroactive polymers meet solid acid: A synergetic poly(acid yellow 9)/layered alpha tin phosphate (PAY/岳nP) composite film for absorbing heavy metal ions. <b>2020</b> , 704, 137956	1

243	A highly stretchable strain sensor based on CNT/graphene/fullerene-SEBS 2020, 10, 11225-11232	21
242	Synthesis of Polypyrrole/V2O5 Composite Film on the Surface of Magnesium Using a Mild Vapor Phase Polymerization (VPP) Method for Corrosion Resistance. <b>2020</b> , 10, 402	4
241	Azo dye aggregates and their roles in the morphology and conductivity of polypyrrole. <b>2020</b> , 177, 108329	11
240	Constructing honeycomb conductive rings in graphene foam/epoxy resin metacomposites for adjustable negative permittivity, low dielectric loss tangent and mechanical enhancement. <b>2020</b> , 82, 105706	21
239	Advances in Responsively Conductive Polymer Composites and Sensing Applications. <b>2021</b> , 61, 157-193	47
238	Bioinspired Sensing, Actuation, and Control in Underwater Soft Robotic Systems. <b>2021</b> ,	2
237	Star-nose-inspired multi-mode sensor for anisotropic motion monitoring. <b>2021</b> , 80, 105559	11
236	A hydrophobic conductive strip with outstanding one-dimensional stretchability for wearable heater and strain sensor. <b>2021</b> , 404, 126393	22
235	Graphite-Filled Polyethylene/Epoxy Blend for High-Conductivity Applications: The Immiscibility Edge. <b>2021</b> , 60, 105-116	1
234	Boosting electrical and piezoresistive properties of polymer nanocomposites via hybrid carbon fillers: A review. <b>2021</b> , 173, 1020-1040	28
233	CoreBheath Fiber-Based Wearable Strain Sensor with High Stretchability and Sensitivity for Detecting Human Motion. <b>2021</b> , 7, 2000865	15
232	Polymer chemistry underpinning materials for triboelectric nanogenerators (TENGs): Recent trends. <b>2021</b> , 142, 110163	12
231	Significance of nano-materials, designs consideration and fabrication techniques on performances of strain sensors - A review. <b>2021</b> , 123, 105581	14
230	Conductive MXene/cotton fabric based pressure sensor with both high sensitivity and wide sensing range for human motion detection and E-skin. <b>2021</b> , 420, 127720	69
229	Smart Composites and Their Applications. <b>2021</b> , 380-389	
228	Effects of service condition on the performance of conductive polymer composites for flexible strain sensors. <b>2021</b> , 318, 112494	3
227	Salt-mediated triple shape-memory ionic conductive polyampholyte hydrogel for wearable flexible electronics. <b>2021</b> , 9, 1048-1061	33
226	Flexible LiZnTiMn ferrite/PDMS composites with enhanced magnetic-dielectric properties for miniaturized application. <b>2021</b> , 47, 1121-1125	4

225	Thin Ag films adhesive onto flexible substrates with excellent properties for multi-application. <b>2021</b> , 138, 49806		2
224	Conductivity controllable rubber films: response to humidity based on a bio-based continuous segregated cell network. <b>2021</b> , 9, 8749-8760		5
223	Lithographically patterned polypyrrole multilayer microstructures via sidewall-controlled electropolymerization. <b>2021</b> , 31, 025008		2
222	Recent progress in flexible nanocellulosic structures for wearable piezoresistive strain sensors. Journal of Materials Chemistry C, <b>2021</b> , 9, 11001-11029	7.1	5
221	Lightweight, Superelastic, and Hydrophobic Polyimide Nanofiber /MXene Composite Aerogel for Wearable Piezoresistive Sensor and Oil/Water Separation Applications. <b>2021</b> , 31, 2008006		127
220	Inkjet Printing of Highly Sensitive, Transparent, Flexible Linear Piezoresistive Strain Sensors. <b>2021</b> , 11, 51		3
219	Highly Sensitive Ultrathin Flexible Thermoplastic Polyurethane/Carbon Black Fibrous Film Strain Sensor with Adjustable Scaffold Networks. <b>2021</b> , 13, 64		78
218	Self-Healing Hydrogels for Analyte Sensing. <b>2021</b> ,		
217	High strength and flexible aramid nanofiber conductive hydrogels for wearable strain sensors. Journal of Materials Chemistry C, <b>2021</b> , 9, 575-583	7.1	16
216	Recent trends in the applications of thermally expanded graphite for energy storage and sensors $\ensuremath{\mathbb{D}}$ a review.		7
215	Anisotropy of resistance-type strain sensing networks based on aligned carbon nanofiber membrane. <b>2021</b> , 56, 6292-6305		4
214	Self-Healing Polymer Nanocomposite Materials by Joule Effect. <b>2021</b> , 13,		14
213	Use of Surface Penetration Technology to Fabricate Superhydrophobic Multifunctional Strain Sensors with an Ultrawide Sensing Range. <b>2021</b> , 13, 11284-11295		14
212	Wearable Biosensors: An Alternative and Practical Approach in Healthcare and Disease Monitoring. <b>2021</b> , 26,		43
211	Reliable sensors based on graphene textile with negative resistance variation in three dimensions. <b>2021</b> , 14, 2810-2818		2
<b>21</b> 0	Towards artificial proprioception from artificial muscles constituted by self-sensing multi-step electrochemical macromolecular motors. <b>2021</b> , 368, 137576		8
209	Fabrication of Conductive Polymer Composites and Their Applications in Sensors. <b>2021</b> , 21-52		О
208	Modeling the stress and resistance relaxation of conductive composites-coated fabric strain sensors. <b>2021</b> , 204, 108645		4

207	Piezoresistive strain sensors based on psyllium-carbon nanostructure skeletons. 2021, 209, 108610	6
206	Biaxial Inflation Stretch Test for Flexible Electronics. <b>2021</b> , 23, 2001503	О
205	Multifunctional CaCO3/polyelectrolyte sorbents for heavy metal ions decontamination of synthetic waters. <b>2021</b> , 613, 126084	5
204	A comparative study between vapor phase polymerized PPy and PEDOT - Thermoplastic polyurethane composites for ammonia sensing. <b>2021</b> , 217, 123463	6
203	High sensitivity of multi-sensing materials based on reduced graphene oxide and natural rubber: The synergy between filler segregation and macro-porous morphology. <b>2021</b> , 205, 108689	18
202	Strain Sensing Coatings for Large Composite Structures Based on 2D MXene Nanoparticles. <b>2021</b> , 21,	6
201	Multifunctional Self-Healing Dual Network Hydrogels Constructed via Host-Guest Interaction and Dynamic Covalent Bond as Wearable Strain Sensors for Monitoring Human and Organ Motions. <b>2021</b> , 13, 14612-14622	34
200	Stretchable strain sensors with dentate groove structure for enhanced sensing recoverability. <b>2021</b> , 211, 108641	24
199	Facile and Large-scale Fabrication of Self-crimping Elastic Fibers for Large Strain Sensors. <b>2021</b> , 39, 914	1
198	Printable G-Putty for Frequency- and Rate-Independent, High-Performance Strain Sensors. <b>2021</b> , 17, e2006542	7
197	Sensorized Foam Actuator with Intrinsic Proprioception and Tunable Stiffness Behavior for Soft Robots. <b>2021</b> , 3, 2100022	1
196	Three-dimensional light-weight piezoresistive sensors based on conductive polyurethane sponges coated with hybrid CNT/CB nanoparticles. <b>2021</b> , 548, 149268	20
195	Production of elastomer-based highly conductive hybrid nanocomposites and treatment with sulfuric acid. <b>2021</b> , 41, 467-479	1
194	Scalable manufacturing of conductive rubber nanocomposites with ultralow percolation threshold for strain sensing applications. <b>2021</b> , 25, 100685	8
193	Highly stretchable and sensitive strain sensor based on silver nanowires/carbon nanotubes on hair band for human motion detection. <b>2021</b> ,	6
192	Rapid custom prototyping of soft poroelastic biosensor for simultaneous epicardial recording and imaging. <b>2021</b> , 12, 3710	9
191	Manufacture of high sensitive Ag-Fe3O4-PDMS nanocomposite pressure sensor through morphology control of conductive filler. <b>2021</b> ,	2
190	Highly stretchable conductive elastomeric polyurethane nanofiber composite for human motion detection. <b>2021</b> , 293, 129698	2

189	Highly stretchable self-sensing actuator based on conductive photothermally-responsive hydrogel. <b>2021</b> ,	23
188	Transparent Omni-Directional Stretchable Circuit Lines Made by a Junction-Free Grid of Expandable Au Lines. <b>2021</b> , 33, e2100299	6
187	Bi-continuous conductive network induced by in-situ phase separation in epoxy composites with enhanced electromagnetic interference shielding performance. <b>2021</b> , 164, 104918	2
186	Holocellulose Nanofibril-Assisted Intercalation and Stabilization of TiCT MXene Inks for Multifunctional Sensing and EMI Shielding Applications. <b>2021</b> , 13, 36221-36231	7
185	Recent Progress in Essential Functions of Soft Electronic Skin. <b>2021</b> , 31, 2104686	43
184	Microfluidic preparation of highly stretchable natural rubber microfiber containing CNT/PEDOT:PSS hybrid for fabric-sewable wearable strain sensor. <b>2021</b> , 210, 108811	19
183	Tuning Mechanical and Electrical Properties of Elastomer Composites with Hybrid Filler Network Containing Graphene for Stretchable Strain Sensors. 2100703	2
182	Highly Tunable Piezoresistive Behavior of Carbon Nanotube-Containing Conductive Polymer Blend Composites Prepared from Two Polymers Exhibiting Crystallization-Induced Phase Separation. <b>2021</b> , 13, 43333-43347	1
181	. <b>2021</b> , 109, 1364-1397	8
180	3D-Printed Flexible Piezoresistive Sensors for Stretching and Out-of-Plane Forces. 2100437	5
179	Structural Design Strategies of Polymer Matrix Composites for Electromagnetic Interference Shielding: A Review. <b>2021</b> , 13, 181	65
178	Design of flexible strain sensor with both ultralow detection limit and wide sensing range via the multiple sensing mechanisms. <b>2021</b> , 213, 108932	9
177	Relationship between microstructure evolution and properties enhancement of carbon nanotubes-filled polybutylene terephthalate/polypropylene blends induced by thermal annealing. 51689	1
176	Comparative study of flexural and physical properties of graphite-filled immiscible polypropylene/epoxy and high-density polyethylene/epoxy blends. 096739112110470	
175	Wearable and self-healable textile-based strain sensors to monitor human muscular activities. <b>2021</b> , 220, 108969	5
174	An adhesive and self-healable hydrogel with high stretchability and compressibility for human motion detection. <b>2021</b> , 213, 108948	13
173	Flexible strain sensor with high sensitivity, fast response, and good sensing range for wearable applications. <b>2021</b> , 32,	2
172	Biology and bioinspiration of soft robotics: Actuation, sensing, and system integration. <b>2021</b> , 24, 103075	8

# (2020-2021)

171	A Surface-Confined Gradient Conductive Network Strategy for Transparent Strain Sensors toward Full-Range Monitoring. <b>2021</b> , 13, 43806-43819	Ο
170	Superhydrophobic and wearable TPU based nanofiber strain sensor with outstanding sensitivity for high-quality body motion monitoring. <b>2021</b> , 419, 129513	26
169	Highly conductive and durable electrothermal electrode through the steric confinement effect of graphene on helically intersected carbon fiber network. <b>2021</b> , 213, 108900	1
168	Global Challenges of Digital Transformation of Markets: Collaboration and Digital Assets. <b>2021</b> , 13, 10619	4
167	A sensitive and flexible sensor enhanced by constructing graphene-based polyaniline conductive networks. <b>2021</b> , 330, 112862	1
166	The tunable sensing behaviors of flexible conductive PDMS/NCG composites via regulation of filler size prepared by a facile sedimentation method. <b>2021</b> , 216, 109037	1
165	Triple mode and multi-purpose flexible sensor fabrication based on carbon black and thermoplastic polyurethane composite with propolis. <b>2021</b> , 332, 113056	2
164	Flexible, Robust, and Durable Aramid Fiber/CNT Composite Paper as a Multifunctional Sensor for Wearable Applications. <b>2021</b> , 13, 5486-5497	15
163	Fabricating Microcracks in SBS-g-MAH/CB Composites to Improve Conductivity and Small Strain-Sensing Sensitivity. <b>2021</b> , 50, 992-1001	4
162	Direct printing of functional 3D objects using polymerization-induced phase separation. <b>2021</b> , 12, 55	19
162	Direct printing of functional 3D objects using polymerization-induced phase separation. <b>2021</b> , 12, 55  Recent Advances in Self-Healable Intelligent Materials Enabled by Supramolecular Crosslinking Design. <b>2021</b> , 3, 2000183	19 5
	Recent Advances in Self-Healable Intelligent Materials Enabled by Supramolecular Crosslinking	, i
161	Recent Advances in Self-Healable Intelligent Materials Enabled by Supramolecular Crosslinking Design. <b>2021</b> , 3, 2000183  Study on the forming and sensing properties of laser-sintered TPU/CNT composites for plantar	5
161 160	Recent Advances in Self-Healable Intelligent Materials Enabled by Supramolecular Crosslinking Design. 2021, 3, 2000183  Study on the forming and sensing properties of laser-sintered TPU/CNT composites for plantar pressure sensors. 2021, 112, 2211-2222  Influence of Graphene Oxide on Thermally Induced Shape Memory Behavior of PLA/TPU Blends: Correlation with Morphology, Creep Behavior, Crystallinity, and Dynamic Mechanical Properties.	5
161 160 159	Recent Advances in Self-Healable Intelligent Materials Enabled by Supramolecular Crosslinking Design. 2021, 3, 2000183  Study on the forming and sensing properties of laser-sintered TPU/CNT composites for plantar pressure sensors. 2021, 112, 2211-2222  Influence of Graphene Oxide on Thermally Induced Shape Memory Behavior of PLA/TPU Blends: Correlation with Morphology, Creep Behavior, Crystallinity, and Dynamic Mechanical Properties. 2021, 306, 2000576	5 6 15
161 160 159 158	Recent Advances in Self-Healable Intelligent Materials Enabled by Supramolecular Crosslinking Design. 2021, 3, 2000183  Study on the forming and sensing properties of laser-sintered TPU/CNT composites for plantar pressure sensors. 2021, 112, 2211-2222  Influence of Graphene Oxide on Thermally Induced Shape Memory Behavior of PLA/TPU Blends: Correlation with Morphology, Creep Behavior, Crystallinity, and Dynamic Mechanical Properties. 2021, 306, 2000576  Effects of temperature on MWCNTs/PDMS composites based flexible strain sensors. 2020, 27, 3202-3212	5 6 15
161 160 159 158	Recent Advances in Self-Healable Intelligent Materials Enabled by Supramolecular Crosslinking Design. 2021, 3, 2000183  Study on the forming and sensing properties of laser-sintered TPU/CNT composites for plantar pressure sensors. 2021, 112, 2211-2222  Influence of Graphene Oxide on Thermally Induced Shape Memory Behavior of PLA/TPU Blends: Correlation with Morphology, Creep Behavior, Crystallinity, and Dynamic Mechanical Properties. 2021, 306, 2000576  Effects of temperature on MWCNTs/PDMS composites based flexible strain sensors. 2020, 27, 3202-3212  Fabrication and characterization of Ag flake hybrid circuits with IPL-sintering. 2020, 53, 13-18  Bioinspired, Superhydrophobic, and Paper-Based Strain Sensors for Wearable and Underwater	5 6 15 6

153	Facile and rapid fabrication of conductive layers on flexible polymer surfaces and their application to flexible strain sensors. <b>2021</b> , 32, 27305	1
152	Recent Advances on Conducting Polymers Based Nanogenerators for Energy Harvesting. <b>2021</b> , 12,	3
151	Self-Healing, Self-Adhesive Strain Sensors Made with Carbon Nanotubes/Polysiloxanes Based on Unsaturated Carboxyl-Amine Ionic Interactions. <b>2021</b> , 13, 49266-49278	1
150	Development of Conductive Hydrogels for Fabricating Flexible Strain Sensors. <b>2021</b> , e2101518	25
149	Mussel-Inspired Chemistry: A Promising Strategy for Natural Polysaccharides in Biomedical Applications. <b>2021</b> , 101472	7
148	Simple route to performance modulation of resistive strain sensor based on strain-engineered stretchable substrate with customized hard template. <b>2022</b> , 217, 109111	1
147	Highly sensitive and stretchable fiber strain sensors empowered by synergetic conductive network of silver nanoparticles and carbon nanotubes. <b>2021</b> , 25, 101221	3
146	Use of graphene-based fabric sensors for monitoring human activities. <b>2021</b> , 332, 113172	O
145	Self-supported Materials for Flexible/Stretchable Sensors. <b>2020</b> , 269-296	
144	Stretchable and ultrasensitive strain sensor from carbon nanotube-based composite with significantly enhanced electrical and sensing properties by tailoring segregated conductive networks. <b>2021</b> , 29, 100987	4
143	Robust conductive organohydrogel strain sensors with wide range linear sensing, UV filtering, anti-freezing and water-retention properties. <b>2021</b> , 632, 127823	2
142	Porous conductive elastomeric composites with carbon nanotubes suspended in the narrow pores from Co-continuous polymer blend nanocomposites. <b>2021</b> , 109116	2
141	Novel conductive polymer composites based on CNTs/CNFs bridged liquid metal. 2021, 54, 085401	O
140	Flexible Sensor for Invisible Respiratory Monitoring via Construction of a 2D Stacked Micronetwork. <b>2020</b> , 5, 32806-32813	
139	Bioinspired Sensors and Actuators Based on Stimuli-Responsive Hydrogels for Underwater Soft Robotics. <b>2021</b> , 99-115	1
138	Experimental study of the impact of electrospinning parameters on the electromechanical properties of strain sensitive electrospun multiwalled carbon nanotubes/ thermoplastic polyurethane nanofibers. 1-16	1
137	Recent Advances in Multiresponsive Flexible Sensors towards E-skin: A Delicate Design for Versatile Sensing. <b>2021</b> , e2103734	10
136	Healable, Adhesive, and Conductive Nanocomposite Hydrogels with Ultrastretchability for Flexible Sensors. <b>2021</b> , 13, 58048-58058	7

135	Recent Development of Multifunctional Sensors Based on Low-Dimensional Materials. 2021, 21,	O
134	Gradient Diffusion Anisotropic Carboxymethyl Cellulose Hydrogels for Strain Sensors. 2021,	3
133	Flexible and Stable Carbon Nanotube Film Strain Sensors with Self-Derived Integrated Electrodes. <b>2021</b> , 13, 55600-55610	0
132	Conductive Polymer Composites for Soft Tactile Sensors. <b>2021</b> , 29, 761-775	3
131	A prediction model for photopatternable thickness of photocurable polymer nanocomposites containing carbon-based high-aspect-ratio fillers. <b>2022</b> , 218, 109207	2
130	Facile fabrication of silicone rubber composite foam with dual conductive networks and tunable porosity for intelligent sensing. <b>2022</b> , 164, 110980	2
129	Flexible strain sensors for wearable applications fabricated using novel functional nanocomposites: A review. <b>2022</b> , 284, 115214	7
128	Multifunctional conductive graphite/cellulosic microfiber-natural rubber composite sponge with ultrasensitive collision-warning and fire-waring. <b>2022</b> , 431, 134046	1
127	Positive temperature coefficient (PTC) materials based on amorphous poly(methyl methacrylate) with ultrahigh PTC intensity, tunable switching temperature and good reproducibility. <b>2022</b> , 30, 103078	1
126	Selective and efficient removal of radioactive ions from water with well-dispersed metal oxide nanoparticles@N-doped carbon. <b>2022</b> , 285, 120366	2
125	Flexible fluorinated multi-walled carbon nanotube/polyarylene ether nitrile metacomposites with negative permittivity. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 10, 171-179	1
124	Carbon-based aerogel in three-dimensional polyurethane scaffold: The effect of in situ unidirectional aerogel growth on piezoresistive properties. <b>2022</b> , 333, 113306	1
123	Adhesion and Stiffness Matching in Epoxy-Vitrimers/Strain Sensor Fiber Laminates. 2022, 4, 1264-1275	3
122	Remendable conductive polyethylene composite with simultaneous restoration of electrical and mechanical behavior.	Ο
121	Epoxidized natural rubber/acid functionalized carbon nanotubes composites for enhanced thermo-mechanical and oxygen barrier performance.	0
120	Vertical graphene on flexible substrate, overcoming limits of crack-based resistive strain sensors. <b>2022</b> , 6,	5
119	Highly Stretchable and Sensitive Strain Sensor based on Ionogel/Ag Synergistic Conductive Network. 2102245	2
118	Wearable and antibacterial HPMC-anchored conductive polymer composite strain sensor with high gauge factors under small strains. <b>2022</b> , 435, 135068	2

117	A multifunctional hydrogel fabricated via ultra-fast polymerization by graphene oxide-adsorbed liquid metal nanodroplets. <b>2022</b> , 435, 135018	1
116	Highly sensitive, direction-aware, and transparent strain sensor based on oriented electrospun nanofibers for wearable electronic applications. <b>2022</b> , 435, 135004	3
115	Performance of Flexible Strain Sensors with Different Transition Mechanisms: A Review. 2022, 1-1	5
114	Rapid mold-free fabrication of long functional PDMS fibers. <b>2022</b> , 14,	
113	Mussel-Inspired Polynorepinephrine/MXene-Based Magnetic Nanohybrid for Electromagnetic Interference Shielding in X-Band and Strain-Sensing Performance <b>2022</b> ,	6
112	Highly Sensitive and Stretchable MXene/CNTs/TPU Composite Strain Sensor with Bilayer Conductive Structure for Human Motion Detection <b>2022</b> ,	9
111	Conductivity Behaviour under Pressure of Copper Micro-Additive/Polyurethane Composites (Experimental and Modelling) <b>2022</b> , 14,	0
110	Sustainable Natural Bio-Origin Materials for Future Flexible Devices <b>2022</b> , e2200560	9
109	Electrically conductive porous MXene-polymer composites with ultralow percolation threshold via Pickering high internal phase emulsion templating strategy <b>2022</b> , 618, 290-299	1
108	Electroconductive cellulose nanocrystals - Synthesis, properties and applications: A review <b>2022</b> , 289, 119419	O
107	3D Nanoconductive Network Based on the Microstructure of Latex Foam for Superior Performance Piezoresistive Sensors. <b>2022</b> , 4, 54-63	2
106	An In Situ Self-Assembly Dual Conductive Shell Nanofiber Strain Sensor with Superior Sensitivity and Antibacterial Property. <b>2022</b> , 9, 2101107	1
105	"Toolbox" for the Processing of Functional Polymer Composites <b>2021</b> , 14, 35	8
104	A Data-Driven Review of Soft Robotics. 2100163	2
103	The Effect of Graphite Additives on Magnetization, Resistivity and Electrical Conductivity of Magnetorheological Plastomer. <b>2021</b> , 14,	0
102	Cost-Effective Fabrication of Transparent Strain Sensors via Micro-Scale 3D Printing and Imprinting <b>2021</b> , 12,	3
101	Introduction. <b>2022</b> , 1-22	
100	Flexible Pyroelectric Sensors for Energy Harvesting Applications. <b>2022</b> , 153-168	1

99	Highly-stretchable porous thermoplastic polyurethane/carbon nanotubes composites as a multimodal sensor. <b>2022</b> ,	5
98	Reduced-order modeling of conductive polymer pressure sensors using finite element simulations and deep neural networks. <b>2022</b> , 65, 1	1
97	Highly Conductive Polymer Composite Based on Graphite-Filled Immiscible Polyolefin/Epoxy Blends. 917, 10-21	
96	Flexible and high-performance piezoresistive strain sensors based on multi-walled carbon nanotubes@polyurethane foam <b>2022</b> , 12, 14190-14196	2
95	Nanoarchitectonics for conductive polymers using solid and vapor phases.	0
94	Conformable on-skin supercapacitor-integrated, strain sensor based on multioxidant-functionalized thermoplastic polyurethane/reduced graphene oxide/polypyrrole composite films.	1
93	Anti-dryable, anti-freezable, and self-healable conductive hydrogel for adhesive electrodes. 1-11	
92	Carbon Nanotube Anchored Organic Hydrogel for Soft Sensors. 2100890	O
91	Facile Fabrication of Highly Sensitive Thermoplastic Polyurethane Sensors with Surface- and Interface-Impregnated 3D Conductive Networks <b>2022</b> ,	3
90	Ag Nanowire-Based Omnidirectional Stretchable Sensing Array for Independent PressureBtrain Detection.	1
89	Influence of various functional groups in graphene on the mechanical and interfacial properties of epoxy nanocomposites: A review on molecular modeling and MD simulations.	
88	Migration mechanism of carbon nanotubes and matching viscosity-dependent morphology in Co-continuous Poly(lactic acid)/Poly(Laprolactone) blend: Towards electromagnetic shielding enhancement. 2022, 252, 124963	7
87	Evaluation of conductivity and piezo-impedance response of VACNTs/PDMS nanocomposite-based strain sensors under small deformations. <b>2022</b> , 113626	
86	Intelligent Nanomaterials for Wearable and Stretchable Strain Sensor Applications: The Science behind Diverse Mechanisms, Fabrication Methods, and Real-Time Healthcare. <b>2022</b> , 14, 2219	1
85	Multi-functional polyamide 12 (PA12)/ multiwall carbon nanotube 3D printed nanocomposites with enhanced mechanical and electrical properties. 1-25	0
84	Heterogeneous carbon/silicone composite for ultrasensitive anisotropic strain sensor with loading-direction-perception capability. <b>2022</b> , 109565	O
83	Conductive Compliant Mechanisms: Geometric Tuning of 3d Printed Flexural Sensors.	
82	Silver Nanowires in Stretchable Resistive Strain Sensors. <b>2022</b> , 12, 1932	O

81	Size Prediction and Electrical Performance of Knitted Strain Sensors. <b>2022</b> , 14, 2354	0
80	Strain and stress sensing properties of the MWCNT/TPU nanofiber film. <b>2022</b> , 32, 102132	1
79	Highly sensitive large strain cellulose/multiwalled carbon nanotubes (MWCNTs)/thermoplastic polyurethane (TPU) nanocomposite foams: From design to performance evaluation. <b>2022</b> , 188, 105653	1
78	Vertical Graphene Canal Mesh for Strain Sensing with a Supereminent Resolution.	1
77	Electroactive Polymer-Based Composites for Artificial Muscle-like Actuators: A Review. <b>2022</b> , 12, 2272	1
76	Advanced Bio-Inspired Mechanical Sensing Technology: Learning from Nature but Going beyond Nature. 2200756	1
75	Multifunctional wearable strain/pressure sensor based on conductive carbon nanotubes/silk nonwoven fabric with high durability and low detection limit.	10
74	Graphene-based wearable temperature sensors: A review. <b>2022</b> , 221, 110971	1
73	Modeling coupled electrochemical and mechanical behavior of soft ionic materials and ionotronic devices. <b>2022</b> , 105014	1
7 <sup>2</sup>	A high-sensitivity thin-film MWNT@PDA-AgNP nanocomposite sensor for acquiring microscopic deformations. <b>2022</b> , 229, 109689	1
71	Repeated bending durability evaluation of ZnO and Al-doped ZnO thin films grown on cyclo-olefin polymer for flexible oxide device applications.	0
70	Geometrical and electrical modulation of cracked metal films based on metal nanowire/elastomer composites for high-performance wearable strain sensing. <b>2022</b> , 230, 109738	O
69	Silver-Hydrogel/PDMS film with high mechanical strength for anti-interference strain sensor. <b>2022</b> , 654, 130071	0
68	Conductive compliant mechanisms: Geometric tuning of 3D printed flexural sensors. <b>2022</b> , 3, 100088	O
67	Recent process of multimode stimuli-responsive flexible composites based on magnetic particles filled polymers: characteristics, mechanism and applications. <b>2022</b> , 163, 107215	0
66	High-performance pressure/strain sensors featuring a conductive network constructed from c-MWCNTs and nanospheres for human activity monitoring. <b>2022</b> , 10, 11755-11766	1
65	Flexible Strain Sensor Based on 3D Electrospun Carbonized Sponge. <b>2022</b> , 73, 4971-4980	0
64	Mechanical properties and structures under the deformation of thiophene copolymers with cyclic siloxane units.	O

63	Printed Low-Hysteresis Stretchable Strain Sensor Based on a Self-Segregating Conductive Composite.	1
62	Development of an Innovative Soft Piezoresistive Biomaterial Based on the Interconnection of Elastomeric PDMS Networks and Electrically-Conductive PEDOT:PSS Sponges. <b>2022</b> , 13, 135	O
61	Crack engineering boosts the performance of flexible sensors. 20220025	1
60	Electromechanical Performance of Strain Sensors Based on Viscoelastic Conductive Composite Polymer Fibers. <b>2022</b> , 14, 44832-44840	3
59	Wearable and stretchable conductive polymer composites for strain sensors: How to design a superior one?. <b>2022</b> ,	1
58	Development of porous materials based resistance pressure sensors and their biomedical applications: a review. 1-20	Ο
57	Carbon-based conductive rubber composite for 3D printed flexible strain sensors.	O
56	3D PRINTING OF HIGHLY CONDUCTIVE PEDOT:PSS-BASED POLYMERS. 1-25	O
55	Sensing mechanism of a flexible strain sensor developed directly using electrospun composite nanofiber yarn with ternary carbon nanomaterials. <b>2022</b> , 25, 105162	2
54	An embedded printed flexible strain resistance sensor via micro-structure design on graphene-filled conductive silicon rubber.	O
53	Novel Low-Carbon Energy Solutions for Powering Emerging Wearables, Smart Textiles, and Medical Devices.	1
52	A novel study on the sandwich-structure strain sensor using ethylene-vinyl acetate-based hot-melt adhesive mesh web: Fabrication, properties, and modeling.	O
51	Manufacturing and Measuring Techniques for Graphene-Silicone-Based Strain Sensors.	O
50	Photopatternable and electrically conductive exfoliated graphite nanoplatelet-reinforced SU-8 nanocomposites for electrical lead micropatterning.	O
49	3D Printing of Flexible Strain Sensor Based on MWCNTs/Flexible Resin Composite.	1
48	Flexible conductive Ag-CNTs sponge with corrosion resistance for wet condition sensing and human motion detection. <b>2023</b> , 656, 130427	O
47	A stretchable and conductive design based on multi-responsive hydrogel for self-sensing actuators. <b>2023</b> , 454, 140263	О
46	Design strategies and applications of wearable piezoresistive strain sensors with dimensionality-based conductive network structures. <b>2022</b> , 140467	1

45	Stretchable Composite Conductive Fibers for Wearables. 2201442	1
44	Intelligent wearable devices based on nanomaterials and nanostructures for healthcare.	1
43	A review on polymers and their composites for flexible electronics.	0
42	Highly Stretchable, Self-adhesive, Ambient-stable, and Wide-temperature Adaptable Hydrophobic Ionogels for Wearable Strain Sensor.	O
41	Three dimensional graphene composites: preparation, morphology and their multi-functional applications. <b>2023</b> , 165, 107335	1
40	Three woven structures of reduced graphene oxide conductive silk fabrics prepared by two different methods for electrical setting and sensing. <b>2022</b> , 52, 152808372211444	O
39	Lightweight and flexible sensors based on environmental-friendly poly(butylene adipate-co-terephthalate) composite foams with porous segregated conductive networks.	0
38	Ultrastretchable Composite Organohydrogels with Dual Cross-Links Enabling Multimodal Sensing. <b>2022</b> , 14, 55143-55154	O
37	Multi-responsive 3D Structured PVDF Cube Switch for Security System Using Piezoelectric Anisotropy.	0
36	High resistivity-temperature effect of resistivity for economical and facile conductive polymer composites with low percolation threshold via self-constructed dual continuous structure.	O
35	Utilizing Multilayer Design of Organic-Inorganic Hybrids to Enhance Wearable Strain Sensor in Humid Environment.	O
34	Highly Sensitive and Reliable Piezoresistive Strain Sensor Based on Cobalt Nanoporous Carbon-Incorporated Laser-Induced Graphene for Smart Healthcare Wearables.	O
33	Unlimited recyclable wearable sensors based on a homogeneous ionic liquid and polyvinyl alcohol network.	0
32	Rapid gelation of dual physical network hydrogel with ultra-stretchable, antifreezing, moisturing for stable and sensitive response.	O
31	Carbon-based aerogels and foams for electromagnetic interference shielding: A review. <b>2023</b> , 205, 10-26	1
30	Production and Application of Polymer Foams Employing Supercritical Carbon Dioxide. <b>2022</b> , 2022, 1-23	O
29	Strain-Sensing Composite Nanofiber Filament and Regulation Mechanism of Shoulder Peaks Based on Carbon Nanomaterial Dispersion. <b>2023</b> , 15, 7392-7404	0
28	Fabrication of a nanoscale 2D PEDOT pattern via the combination of colloidal lithography and vapor phase polymerization for application in transparent, highly sensitive bending sensors.	O

27	Highly conductive fiber with design of dual conductive Ag/CB layers for ultrasensitive and wide-range strain sensing.	1
26	Polymer composites for strain sensors. <b>2023</b> , 381-404	О
25	Long length MWCNT/TPU Composite Materials for Stretchable and Wearable Strain Sensors. 2023, 114364	О
24	Giant piezoionic effect of ultrathin MXene nanosheets toward highly-sensitive sleep apnea diagnosis. <b>2023</b> , 463, 142523	O
23	Electrical characterization and sensing capabilities of self-assembly multi-scale multi-phase graphene-based composites. <b>2023</b> , 208, 131-139	О
22	Characterization of highly linear stretchable sensor made of Gr-PEDOT:PSS/MnO2 nanowires/Ecoflex composite. <b>2023</b> , 311, 116824	1
21	Casein micelle -nanoparticle double cross-linking triggered stable adhesive, tough CA/MWCNT/PAAm hydrogel wearable strain sensors, for human motion monitoring. <b>2023</b> , 238, 124055	O
20	Stretchable and wash durable reactive silver ink coatings for electromagnetic interference shielding, Joule heating, and strain sensing textiles. <b>2023</b> , 179, 107506	O
19	Progress in nanocomposite based flexible temperature sensors: A review. <b>2023</b> , 27, 100692	O
18	Multifunctional two-way shape memory RGO/ethylene-vinyl acetate composite yarns for electro-driven actuators and high sensitivity strain sensors. <b>2023</b> , 169, 107521	O
17	Electrohydrodynamic printing for demanding devices: A review of processing and applications. <b>2022</b> , 11, 3305-3334	О
16	Decoupling Transmission and Transduction for Improved Durability of Highly Stretchable, Soft Strain Sensing: Applications in Human Health Monitoring. <b>2023</b> , 23, 1955	О
15	Smart Wearable Systems for Health Monitoring. <b>2023</b> , 23, 2479	1
14	High-Sensitivity Composite Dual-Network Hydrogel Strain Sensor and Its Application in Intelligent Recognition and Motion Monitoring. <b>2023</b> , 5, 2628-2638	O
13	Revealing the improved sensitivity of PEDOT:PSS/PVA thin films through secondary doping and their strain sensors application. <b>2023</b> , 13, 8202-8219	О
12	Tailored multifunctional nanocomposites obtained by integration of carbonaceous fillers in an aerospace grade epoxy resin curing at high temperatures. <b>2023</b> , 135, 109840	O
11	The tough and multi-functional stretchable device based on silicone rubber composites.	О
10	High sensitive electrospun thermoplastic polyurethane/carbon nanotubes strain sensor fitting by a novel optimization empirical model. <b>2023</b> , 6,	O

9	Pressure and gas sensing composition based on PVDF nano particulates: a review. 2021, 60, 1719-1758	O
8	Comprehensive review on patulin and Alternaria toxins in fruit and derived products. 14,	O
7	Naturally sourced hydrogels: emerging fundamental materials for next-generation healthcare sensing.	O
6	Review on Electrospun Conductive Polymer Composites Strain Sensors.	O
5	A Review on Composite Materials for Energy Harvesting in Electric Vehicles. 2023, 16, 3348	O
4	Facile fabrication of flexible TPU -based microcellular nanocomposite piezoresistive sensors with tunable piezoresistivity via modulating cell structure.	O
3	A new one-component electrically conductive adhesive with excellent electrical conductivity and mechanical properties using tetra-functional polyurethane acrylate oligomers and silver particle fillers. <b>2023</b> , 103388	O
2	Recent Advancements in Physiological, Biochemical, and Multimodal Sensors Based on Flexible Substrates: Strategies, Technologies, and Integrations. <b>2023</b> , 15, 21721-21745	O
1	Cellulose Nanofibers/PEDOT:PSS Conductive Aerogel for Pressure Sensing Prepared by a Facile Freeze-Drying Method.	O