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Lightweight conductive graphene/thermoplastic polyurethane foams with ultrahigh compressibility for piezoresistive sensing

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#	Paper	IF	Citations
528	Flexible and Compressible PEDOT:PSS@Melamine Conductive Sponge Prepared via One-Step Dip Coating as Piezoresistive Pressure Sensor for Human Motion Detection.		
527	Microstructural evolution and mechanical properties of ZrB <sub>2</sub> /6061Al nanocomposites processed by multi-pass friction stir processing. <b>2017</b> , 689, 411-418		32
526	Effect of degree of crosslinking and polymerization of 3D printable polymer/ionic liquid composites on performance of stretchable piezoresistive sensors. <b>2017</b> , 26, 035043		27
525	Fabrication of highly reinforced and compressible graphene/carbon nanotube hybrid foams via a facile self-assembly process for application as strain sensors and beyond. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 2723-2730	7.1	36
524	Challenges and issues facing lithium metal for solid-state rechargeable batteries. <b>2017</b> , 353, 333-342		218
523	Polypyrrole-interface-functionalized nano-magnetite epoxy nanocomposites as electromagnetic wave absorbers with enhanced flame retardancy. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 5334-5344	7.1	209
522	ZIF-derived nitrogen-doped porous carbons as highly efficient adsorbents for removal of organic compounds from wastewater. <b>2017</b> , 323, 502-511		106
521	Self-healing strain sensors based on nanostructured supramolecular conductive elastomers. <b>2017</b> , 5, 9824-9832		141
520	Fabrication of urchin-like ZnO-MXene nanocomposites for high-performance electromagnetic absorption. <b>2017</b> , 43, 10757-10762		110
519	Inorganic nanomaterials for printed electronics: a review. <b>2017</b> , 9, 7342-7372		324
518	Importance of zwitterionic incorporation into polymethacrylate-based hydrogels for simultaneously improving optical transparency, oxygen permeability, and antifouling properties. <b>2017</b> , 5, 4595-4606		24
517	Negative permittivity adjusted by SiO <sub>2</sub> -coated metallic particles in percolative composites. <b>2017</b> , 725, 1259-1263		53
516	Significantly improved dielectric performances of sandwich-structured polymer composites induced by alternating positive-k and negative-k layers. <b>2017</b> , 5, 14575-14582		91
515	Enhanced electrical conductivity and piezoresistive sensing in multi-wall carbon nanotubes/polydimethylsiloxane nanocomposites via the construction of a self-segregated structure. <b>2017</b> , 9, 11017-11026		151
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513	Developing heat conduction pathways through short polymer chains in a hydrogen bonded polymer system. <b>2017</b> , 148, 97-105		32
512	Coating formed by SiBCN single source precursor via UV-photopolymerization. <b>2017</b> , 206, 121-123		6

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498	Enhanced Hydrophilic and Antipollution Properties of PES Membrane by Anchoring SiO <sub>2</sub> /HPAN Nanomaterial. <b>2017</b> , 5, 7812-7823	18
497	Steam-chest molding of expanded thermoplastic polyurethane bead foams and their mechanical properties. <b>2017</b> , 174, 337-346	46
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494	Reparation of recycled acrylonitrile- butadiene-styrene by pyromellitic dianhydride: Reparation performance evaluation and property analysis. <b>2017</b> , 124, 41-47	107

493	Large Scaled Synthesis of Heterostructured Electrospun TiO <sub>2</sub> /SnO <sub>2</sub> Nanofibers with an Enhanced Photocatalytic Activity. <b>2017</b> , 164, H651-H656		243
492	The energy dissipation and Mullins effect of tough polymer/graphene oxide hybrid nanocomposite hydrogels. <b>2017</b> , 8, 4659-4672		38
491	Positive Temperature Coefficient (PTC) Evolution of Segregated Structural Conductive Polypropylene Nanocomposites with Visually Traceable Carbon Black Conductive Network. <b>2017</b> , 4, 1700265		23
490	Highly compressible graphene/polyurethane sponge with linear and dynamic piezoresistive behavior. <b>2017</b> , 7, 34939-34944		21
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481	Electrically conductive palm oil-based coating with UV curing ability. <b>2017</b> , 112, 9-17		13
480	Tunable electromagnetic shielding properties of conductive poly(vinylidene fluoride)/Ni chain composite films with negative permittivity. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 6954-6961	7.1	108
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451	Recent progress of flexible and wearable strain sensors for human-motion monitoring. <b>2018</b> , 39, 011012	66
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446	Simultaneously improved electromagnetic interference shielding and mechanical performance of segregated carbon nanotube/polypropylene composite via solid phase molding. <b>2018</b> , 156, 87-94	158
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428	Carbon nanotubes, graphene, and their derivatives for heavy metal removal. <b>2018</b> , 1, 56-78	125
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402	Anticorrosive durability of zinc-based waterborne coatings enhanced by highly dispersed and conductive polyaniline/graphene oxide composite. <b>2018</b> , 125, 79-88		26
401	Highly sensitive, stretchable and wearable strain sensors using fragmented conductive cotton fabric. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 10524-10531	7.1	54
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398	Ultralight MXene-Coated, Interconnected SiCnws Three-Dimensional Lamellar Foams for Efficient Microwave Absorption in the X-Band. <b>2018</b> , 10, 34524-34533		110
397	Strategy to Enhance Conductivity of Polystyrene/Graphene Composite Foams via Supercritical Carbon Dioxide Foaming Process. <b>2018</b> , 142, 52-63		28
396	Flexible, conductive, and highly pressure-sensitive graphene-polyimide foam for pressure sensor application. <b>2018</b> , 164, 187-194		82
395	Improved dielectric permittivity and retained low loss in layer-structured films via controlling interfaces. <b>2018</b> , 1, 548-557		24
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391	Room-temperature fully recyclable carbon fibre reinforced phenolic composites through dynamic covalent boronic ester bonds. <b>2018</b> , 6, 10868-10878		60
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386	Poly(urethane)s. <b>2018</b> , 71-138		2

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379	A porous graphene/polydimethylsiloxane composite by chemical foaming for simultaneous tensile and compressive strain sensing. <b>2018</b> , 10, 1-7	11
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377	Mechanical Measurement System and Precision Analysis for Tactile Property Evaluation of Porous Polymeric Materials. <b>2018</b> , 10,	4
376	Microwave Attenuation of Graphene Modified Thermoplastic Poly(Butylene adipate--terephthalate) Nanocomposites. <b>2018</b> , 10,	19
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374	Lightweight and conductive carbon black/chlorinated poly(propylene carbonate) foams with a remarkable negative temperature coefficient effect of resistance for temperature sensor applications. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 9354-9362	7.1 35
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370	Functional Polymers and Nanocomposites for 3D Printing of Smart Structures and Devices. <b>2018</b> , 10, 17489-17507	113
369	Ultralight, highly compressible and fire-retardant graphene aerogel with self-adjustable electromagnetic wave absorption. <b>2018</b> , 139, 1126-1135	245
368	Effect of the elongational flow on morphology and properties of polypropylene/graphene nanoplatelets nanocomposites. <b>2018</b> , 71, 10-17	12

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360	Highly stretchable and ultrathin nanopaper composites for epidermal strain sensors. <b>2018</b> , 29, 355304		50
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355	Highly Sensitive Soft Foam Sensors to Empower Robotic Systems. <b>2019</b> , 4, 1900423		18
354	Effect of graphene liquid crystal on dielectric properties of polydimethylsiloxane nanocomposites. <b>2019</b> , 176, 107338		56
353	Enhancing morphology and compression properties of halloysite reinforced polyurethane nanocomposites using injection-moulding technique. <b>2019</b> , 14, 102507		5
352	A Review on Graphene Polymer Nanocomposites in Harsh Operating Conditions. <b>2019</b> , 58, 17106-17129		18
351	An implantable and versatile piezoresistive sensor for the monitoring of human-machine interface interactions and the dynamical process of nerve repair. <b>2019</b> , 11, 21103-21118		26
350	A Simple Two-Step Process for Producing Strong and Aligned Carbon Nanotube-Polymer Composites. <b>2019</b> , 5, 35		3

349	Polyaniline Nanofiber Wrapped Fabric for High Performance Flexible Pressure Sensors. <b>2019</b> , 11,	26
348	Electromagnetic and solar energy conversion and storage based on Fe <sub>3</sub> O <sub>4</sub> -functionalised graphene/phase change material nanocomposites. <b>2019</b> , 196, 1299-1305	48
347	High-performance electromagnetic wave absorption by designing the multilayer graphene/thermoplastic polyurethane porous composites with gradient foam ratio structure. <b>2019</b> , 125, 105522	38
346	Flexible and highly sensitive pressure sensors based on microcrack arrays inspired by scorpions.. <b>2019</b> , 9, 22740-22748	6
345	Retracted Article: The influence of gradient and porous configurations on the microwave absorbing performance of multilayered graphene/thermoplastic polyurethane composite foams.. <b>2019</b> , 9, 21859-21872	4
344	Friction and Wear of MoO <sub>3</sub> /Graphene Oxide Modified Glass Fiber Reinforced Epoxy Nanocomposites. <b>2019</b> , 304, 1900166	79
343	High-performance strain sensor based on a 3D conductive structure for wearable electronics. <b>2019</b> , 52, 395401	9
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341	Highly Compressible and Robust Polyimide/Carbon Nanotube Composite Aerogel for High-Performance Wearable Pressure Sensor. <b>2019</b> , 11, 42594-42606	134
340	Printed soft angular/torque sensors using carbon black-silicone composite. <b>2019</b> , 39, 598-603	3
339	Flexible tactile sensor array for distributed tactile sensing and slip detection in robotic hand grasping. <b>2019</b> , 297, 111512	30
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337	A simple and cost-effective method for improving the sensitivity of flexible strain sensors based on conductive polymer composites. <b>2019</b> , 298, 111608	11
336	Generation of nanocellular TPU/reduced graphene oxide nanocomposite foams with high cell density by manipulating viscoelasticity. <b>2019</b> , 183, 121879	12
335	Cellular Graphene: Fabrication, Mechanical Properties, and Strain-Sensing Applications. <b>2019</b> , 1, 1148-1202	24
334	A Paper-Based Disposable Strain Sensor by Direct Laser Printing. <b>2019</b> ,	
333	Carbon Black from Diesel Soot for High-Performance Wearable Pressure Sensors. <b>2019</b> , 4, 1900475	15
332	Design Strategy for Porous Composites Aimed at Pressure Sensor Application. <b>2019</b> , 15, e1903487	43

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330	Reactivity of Isocyanate-Functionalized Lignins: A Key Factor for the Preparation of Lignin-Based Polyurethanes. <b>2019</b> , 7, 562		14
329	Ultralightweight and 3D Squeezable Graphene-Polydimethylsiloxane Composite Foams as Piezoresistive Sensors. <b>2019</b> , 11, 35201-35211		47
328	High-Tactile Sensitivity of Piezoresistive Sensors With a Micro-Crack Structure Induced by Thin Film Tension. <b>2019</b> , 40, 1519-1521		13
327	Bio-templated 3D porous graphitic carbon nitride hybrid aerogel with enhanced charge carrier separation for efficient removal of hazardous organic pollutants. <b>2019</b> , 556, 366-375		29
326	A highly stretchable and transparent silver nanowire/thermoplastic polyurethane film strain sensor for human motion monitoring. <b>2019</b> , 6, 3119-3124		34
325	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
324	Highly sensitive capacitive pressure sensors based on elastomer composites with carbon filler hybrids. <b>2019</b> , 126, 105614		29
323	Ultra-robust wide-range pressure sensor with fast response based on polyurethane foam doubly coated with conformal silicone rubber and CNT/TPU nanocomposites islands. <b>2019</b> , 177, 107364		45
322	Negative liquid sensing effect and tunable piezoresistive sensitivity in polydimethylsiloxane/carbon nanotubes/water-absorbing-expansion particles nanocomposites. <b>2019</b> , 126, 105608		9
321	Stretchable conductive nonwoven fabrics with self-cleaning capability for tunable wearable strain sensor. <b>2019</b> , 66, 104143		154
320	Blast furnace slag or fly ash filled rigid polyurethane composite foams: A comprehensive investigation. <b>2019</b> , 136, 47433		9
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318	A scalable strategy for constructing three-dimensional segregated graphene network in polymer via hydrothermal self-assembly. <b>2019</b> , 363, 300-308		27
317	Recent Advances in Flexible and Wearable Pressure Sensors Based on Piezoresistive 3D Monolithic Conductive Sponges. <b>2019</b> , 11, 6685-6704		159
316	Highly sensitive, reliable and flexible piezoresistive pressure sensors featuring polyurethane sponge coated with MXene sheets. <b>2019</b> , 542, 54-62		134
315	Structural characterization and thermal degradation of poly(methylmethacrylate)/zinc oxide nanocomposites. <b>2019</b> , 56, 189-196		6
314	Retracted Article: 3D printed highly flexible strain sensor based on TPU/graphene composite for feedback from high speed robotic applications. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 4692-4701	7.1	30

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308	Highly transparent, stretchable, and rapid self-healing polyvinyl alcohol/cellulose nanofibril hydrogel sensors for sensitive pressure sensing and human motion detection. <b>2019</b> , 295, 159-167	114
307	Real-time strain monitoring performance of flexible Nylon/Ag conductive fiber. <b>2019</b> , 295, 612-622	12
306	Ultra-low percolation threshold POSS-PCL/graphene electrically conductive polymer: Neural tissue engineering nanocomposites for neurosurgery. <b>2019</b> , 104, 109915	22
305	Fabrication of graphene-magnetite multi-granule nanocluster composites for microwave absorption application. <b>2019</b> , 53, 4097-4103	6
304	Functionalization of graphene oxide with poly( $\epsilon$ -caprolactone) for enhanced interfacial adhesion in polyamide 6 nanocomposites. <b>2019</b> , 174, 107019	12
303	Piezoresistive performance of polymer-based materials as a function of the matrix and nanofiller content to walking detection application. <b>2019</b> , 181, 107678	24
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298	Micropatterned flexible strain gauge sensor based on wet electrospun polyurethane/PEDOT: PSS nanofibers. <b>2019</b> , 28, 075029	18
297	Sensitive conductive polymer nanocomposites from multiwalled carbon nanotube coated with polypyrrole and hydroxyl-terminated poly(butadiene-co-acrylonitrile) polyurethane for detection of chloroform vapor. <b>2019</b> , 173, 106894	4
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295	Flexible electrically conductive biomass-based aerogels for piezoresistive pressure/strain sensors. <b>2019</b> , 373, 1357-1366	84
294	Ultrawide Sensing Range and Highly Sensitive Flexible Pressure Sensor Based on a Percolative Thin Film with a Knoll-like Microstructured Surface. <b>2019</b> , 11, 20500-20508	18
293	Ultrastretchable Conductive Polymer Complex as a Strain Sensor with a Repeatable Autonomous Self-Healing Ability. <b>2019</b> , 11, 20453-20464	59
292	A 3D-printed stretchable strain sensor for wind sensing. <b>2019</b> , 28, 084001	19
291	Synergistically Toughening Polyoxymethylene by Methyl Methacrylate-Butadiene-Styrene Copolymer and Thermoplastic Polyurethane. <b>2019</b> , 220, 1800567	61
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289	Wet-spinning and carbonization of graphene/PAN-based fibers: Toward improving the properties of carbon fibers. <b>2019</b> , 136, 47932	9
288	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
287	Optimized silk fibroin piezoresistive nanocomposites for pressure sensing applications based on natural polymers. <b>2019</b> , 1, 2284-2292	19
286	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
285	Fabrication of 1D Zn <sub>2</sub> SnO <sub>4</sub> nanowire and 2D ZnO nanosheet hybrid hierarchical structures for use in triethylamine gas sensors. <b>2019</b> , 291, 155-163	61
284	Multifunctional flexible carbon black/polydimethylsiloxane piezoresistive sensor with ultrahigh linear range, excellent durability and oil/water separation capability. <b>2019</b> , 372, 373-382	81
283	Multifunctional sensing platform with pulsed-laser-deposited silver nanoporous structures. <b>2019</b> , 293, 136-144	2
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281	Flexible Sandwich Structural Strain Sensor Based on Silver Nanowires Decorated with Self-Healing Substrate. <b>2019</b> , 304, 1900074	138
280	Functionalized Graphene-Reinforced Foams Based on Polymer Matrices. <b>2019</b> , 121-155	4
279	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
278	Enhanced Solid Particle Erosion Properties of Thermoplastic Polyurethane-Carbon Nanotube Nanocomposites. <b>2019</b> , 304, 1900010	41

277	Tuning sound absorbing properties of open cell polyurethane foam by impregnating graphene oxide. <b>2019</b> , 151, 10-21	30
276	Investigation of electrical, mechanical, and thermal properties of functionalized multiwalled carbon nanotubes-reduced graphene Oxide/PMMA hybrid nanocomposites. <b>2019</b> , 59, 1075-1083	10
275	Cat-Tail-Like Mesostructured Silica Fibers Decorated with Gold Nanowires: Synthesis, Characterization, and Application as Stretchable Sensors. <b>2019</b> , 84, 1031-1038	2
274	Effect of carbon nanotube morphology on properties in thermoplastic elastomer composites for strain sensors. <b>2019</b> , 121, 207-212	48
273	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
272	Highly stretchable multi-walled carbon nanotube/thermoplastic polyurethane composite fibers for ultrasensitive, wearable strain sensors. <b>2019</b> , 11, 5884-5890	103
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269	Highly Stretchable, Adaptable, and Durable Strain Sensing Based on a Bioinspired Dynamically Cross-Linked Graphene/Polymer Composite. <b>2019</b> , 15, e1900848	47
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267	Structure-tunable thermoplastic polyurethane foams fabricated by supercritical carbon dioxide foaming and their compressive mechanical properties. <b>2019</b> , 149, 127-137	34
266	Recent developments in graphene-based polymer composite membranes: Preparation, mass transfer mechanism, and applications. <b>2019</b> , 136, 47761	24
265	High performance linear low density polyethylene nanocomposites reinforced by two-dimensional layered nanomaterials. <b>2019</b> , 172, 142-151	8
264	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
263	High piezo-resistive performances of anisotropic composites realized by embedding rGO-based chitosan aerogels into open cell polyurethane foams. <b>2019</b> , 11, 8835-8844	21
262	MgO-ZrO <sub>2</sub> mixed nanocomposites: fabrication methods and applications. <b>2019</b> , 3-4, 100007	10
261	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
260	Potential of graphene for shape-directing agent free growth of highly oriented silver particles and their application in surface enhanced Raman scattering. <b>2019</b> , 787, 893-902	1



259	Investigation on mechanical properties of polyurethane hybrid nanocomposite foams reinforced with roselle fibers and silica nanoparticles. <b>2019</b> , 5, 1-12	20
258	Highly Sensitive Piezoresistive Graphene-Based Stretchable Composites for Sensing Applications. <b>2019</b> , 11, 46286-46295	29
257	Stretchable Graphene Thin Film Enabled Yarn Sensors with Tunable Piezoresistivity for Human Motion Monitoring. <b>2019</b> , 9, 18644	11
256	Graphene Nanosheets (GNS) Addition on the Palm Oil Fuel Ash (POFA) Based Geopolymer with KOH Activator. <b>2019</b> , 1351, 012101	3
255	Broadband dielectric behavior of the multiwall carbon nanotube-bismuth silicate glass-nanocomposites. <b>2019</b> , 772, 218-229	11
254	Mechanical performance of polystyrene foam (EPS): Experimental and numerical analysis. <b>2019</b> , 73, 359-365	17
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252	Ballistic performance of Kevlar fabric impregnated with nanosilica/PEG shear thickening fluid. <b>2019</b> , 162, 643-652	75
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250	A Novel Method for Compensating Temperature Measurement Error Caused by Dust Using Infrared Thermal Imager. <b>2019</b> , 19, 1730-1739	5
249	Nanocomposite polymeric materials with 3D graphene-based architectures: from design strategies to tailored properties and potential applications. <b>2019</b> , 89, 213-249	52
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240	Effect of graphene and fabrication technique on the release kinetics of carvacrol from polylactic acid. <b>2019</b> , 169, 60-69	41
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238	Trace electrospayed nanopolystyrene facilitated dispersion of multiwalled carbon nanotubes: Simultaneously strengthening and toughening epoxy. <b>2019</b> , 142, 131-140	133
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235	Highly stretchable and durable strain sensor based on carbon nanotubes decorated thermoplastic polyurethane fibrous network with aligned wave-like structure. <b>2019</b> , 360, 762-777	116
234	Improvement of conductivity of graphene-silver nanowire hybrid through nitrogen doping using low power plasma treatment. <b>2019</b> , 773, 1009-1017	16
233	Self-polarized electrospun polyvinylidene fluoride (PVDF) nanofiber for sensing applications. <b>2019</b> , 160, 1-9	27
232	Origin of n-type conductivity in ZnO crystal and formation of Zn and ZnO nanoparticles by laser radiation. <b>2019</b> , 111, 121-128	13
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230	Magnetically actuated graphene coated polyurethane foam as potential sorbent for oils and organics. <b>2020</b> , 13, 1752-1762	18
229	Integrated Sensors in Advanced Composites: A Critical Review. <b>2020</b> , 45, 187-238	12
228	Efficient H <sub>2</sub> gas sensor based on 2D SnO <sub>2</sub> disks: Experimental and theoretical studies. <b>2020</b> , 45, 26388-26401	27
227	Stretchable strain sensors based on polyaniline/thermoplastic polyurethane blends. <b>2020</b> , 77, 1081-1093	21
226	Carbon nanotubes reinforced hydrogel as flexible strain sensor with high stretchability and mechanically toughness. <b>2020</b> , 382, 122832	159
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223	Review of photoreduction and synchronous patterning of graphene oxide toward advanced applications. <b>2020</b> , 55, 480-497	10
222	Highly sensitive and stretchable strain sensors based on chopped carbon fibers sandwiched between silicone rubber layers for human motion detections. <b>2020</b> , 54, 423-434	11
221	Eco-friendly castor oil-based UV-curable urethane acrylate zinc oxide nanocomposites: Synthesis and viscoelastic behavior. <b>2020</b> , 54, 101-110	9
220	Rapid production of few layer graphene for energy storage via dry exfoliation of expansible graphite. <b>2020</b> , 185, 107895	12
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217	Graphene-based wearable piezoresistive physical sensors. <b>2020</b> , 36, 158-179	109
216	Enhanced piezoresistive performance of conductive WPU/CNT composite foam through incorporating brittle cellulose nanocrystal. <b>2020</b> , 387, 124045	69
215	Fabrication of lightweight and flexible silicon rubber foams with ultra-efficient electromagnetic interference shielding and adjustable low reflectivity. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 147-157 <sup>7.1</sup>	32
214	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
213	Comparative study of polymer-based nanocomposites microwave absorption performance in XBand. <b>2020</b> , 7, 015324	6
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211	Recent advances in soft functional materials: preparation, functions and applications. <b>2020</b> , 12, 1281-1306	35
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209	Enhanced Strain Sensing Performance of Polymer/Carbon Nanotube-Coated Spandex Fibers via Noncovalent Interactions. <b>2020</b> , 305, 1900525	13
208	Self-standing Substrates. <b>2020</b> ,	1
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206	Self-templating graphene network composites by flame carbonization for excellent electromagnetic interference shielding. <b>2020</b> , 182, 107615	29

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202	Polypyrrole (PPy) attached on porous conductive sponge derived from carbonized graphene oxide coated polyurethane (PU) and its application in pressure sensor. <b>2020</b> , 22, 100426	17
201	Amyloid Fibril-Templated High-Performance Conductive Aerogels with Sensing Properties. <b>2020</b> , 16, e2004932	9
200	Stretchable Strain Sensor for Human Motion Monitoring Based on an Intertwined-Coil Configuration. <b>2020</b> , 10,	6
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196	A Comprehensive Review on Carbon-Based Polymer Nanocomposite Foams as Electromagnetic Interference Shields and Piezoresistive Sensors. <b>2020</b> , 2, 2318-2350	38
195	Highly Compressible, Thermally Stable, Light-Weight, and Robust Aramid Nanofibers/TiAlC MXene Composite Aerogel for Sensitive Pressure Sensor. <b>2020</b> , 14, 10633-10647	100
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192	Flexible Ecoflex/Graphene Nanoplatelet Foams for Highly Sensitive Low-Pressure Sensors. <b>2020</b> , 20,	9
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190	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>7-1</sup>	9
189	An Experimental Investigation on Acoustical Properties of Organic PU Foam Reinforced with Nanoparticles Fabricated by Hydrothermal Reduction Technique to Emerging Applications. <b>2020</b> , 101, 271-284	4
188	Integrated Computational and Experimental Design of Ductile, Abrasion-Resistant Thermoplastic Polyurethane/Graphene Oxide Nanocomposites. <b>2020</b> , 3, 9694-9705	4

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186	Enhanced permittivity of negative permittivity middle-layer sandwich polymer matrix composites through conductive filling with flake MAX phase ceramics.. <b>2020</b> , 10, 27025-27032		7
185	On the Synergistic Effect of Multi-Walled Carbon Nanotubes and Graphene Nanoplatelets to Enhance the Functional Properties of SLS 3D-Printed Elastomeric Structures. <b>2020</b> , 12,		7
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183	Highly Sensitive Flexible Poly(dimethylsiloxane) Composite Sensors Based on Flame-Synthesized Carbon Foam Made of Vertical Carbon Nanosheet Arrays. <b>2020</b> , 8, 14091-14100		1
182	Thermoplastic polyurethane/graphene nanoplatelets microcellular foams for electromagnetic interference shielding. <b>2020</b> , 5, 33-39		1
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180	A Solvent System Involved Fabricating Electrospun Polyurethane Nanofibers for Biomedical Applications. <b>2020</b> , 12,		7
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164	Enhancing thermal conductivity via conductive network conversion from high to low thermal dissipation in polydimethylsiloxane composites. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 3463-3475	7.1	55
163	A biomimetic-structured wood-derived carbon sponge with highly compressible and biocompatible properties for human-motion detection. <b>2020</b> , 2, 1225-1235		16
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161	Review Recent Progress in Flexible and Stretchable Piezoresistive Sensors and Their Applications. <b>2020</b> , 167, 037561		37
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159	Manufacturing High Sensitive Strain Sensor of Polyurethane Nanofiber Mat/AgNWs by Simple Dip-dry Method. <b>2020</b> , 21, 359-365		3
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64	Direct Ink Writing of Graphene/Cnt/Silicone Composite Strain Sensor with Near-Zero Temperature Coefficient of Resistance.		
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45	Self-Powered Tactile Sensor for Gesture Recognition Using Deep Learning Algorithms.	2
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8	Mechanical and thermal properties of carbon fiber epoxy composite with interlaminar graphene at elevated temperature. <b>2023</b> , 255, 110609	0

- 7 Highly Stretchable Electronic-Skin Sensors with Porous Microstructure for Efficient Multimodal Sensing with Wearable Comfort. **2023**, 10, 2201958 ○
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