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Electrically conductive thermoplastic elastomer nanocomposites at ultralow graphene loading levels for strain sensor applications

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#	Paper	IF	Citations
449	Graphene/Elastomer Composites with Segregated Nanostructured Network for Liquid and Strain Sensing Application.		
448	High-Performance Structural Flexible Strain Sensors Based on Graphene-Coated Glass Fabric/Silicone Composite.		
447	Stumbling through the Research Wilderness, Standard Methods To Shine Light on Electrically Conductive Nanocomposites for Future Healthcare Monitoring.		
446	Sensitive electromechanical sensors using viscoelastic graphene-polymer nanocomposites. <b>2016</b> , 354, 1257-1260		517
445	Piezoresistive behavior of porous carbon nanotube-thermoplastic polyurethane conductive nanocomposites with ultrahigh compressibility. <b>2016</b> , 108, 011904		69
444	Organic vapor sensing behaviors of conductive thermoplastic polyurethane/graphene nanocomposites. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 4459-4469	7.1	179
443	Electrically conductive strain sensing polyurethane nanocomposites with synergistic carbon nanotubes and graphene bifillers. <b>2016</b> , 8, 12977-89		364
442	Electrically conductive thermoplastic polyurethane/polypropylene nanocomposites with selectively distributed graphene. <i>Polymer</i> , <b>2016</b> , 97, 11-19	3.9	129
441	Simultaneous determination of bisphenol A and hydroquinone using a poly(melamine) coated graphene doped carbon paste electrode. <b>2016</b> , 183, 2289-2296		28
440	Long conducting polymer nanonecklaces with a 'beads-on-a-string' morphology: DNA nanotube-template synthesis and electrical properties. <b>2016</b> , 8, 10026-9		5
439	Highly Conductive Graphene and Polyelectrolyte Multilayer Thin Films Produced From Aqueous Suspension. <b>2016</b> , 37, 1790-1794		6
438	Graphene-Elastomer Composites with Segregated Nanostructured Network for Liquid and Strain Sensing Application. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 24143-51	9.5	97
437	Graphene oxide/polysulfone hollow fiber mixed matrix membranes for gas separation. <b>2016</b> , 6, 89130-89139		48
436	Influence of vacancy defects and 3d transition metal adatoms on the electronic and magnetic properties of graphene. <b>2016</b> , 6, 92857-92861		3
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434	Magnetic assembly of transparent and conducting graphene-based functional composites. <b>2016</b> , 7, 12078		81
433	The effect of the surface energy and structure of the SiC substrate on epitaxial graphene growth. <b>2016</b> , 6, 100908-100915		10

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431	Transport performance in novel elastomer nanocomposites: Mechanism, design and control. <b>2016</b> , 61, 29-66		91
430	Engineering of graphene/epoxy nanocomposites with improved distribution of graphene nanosheets for advanced piezo-resistive mechanical sensing. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 3422-3430	7.1	48
429	Low temperature Solution-Processed ZnO film on flexible substrate. <b>2016</b> , 47, 20-24		12
428	A novel strategy to simultaneously electrochemically prepare and functionalize graphene with a multifunctional flame retardant. <i>Chemical Engineering Journal</i> , <b>2017</b> , 316, 514-524	14.7	138
427	Largely Enhanced Stretching Sensitivity of Polyurethane/Carbon Nanotube Nanocomposites via Incorporation of Cellulose Nanofiber. <b>2017</b> , 121, 2108-2117		52
426	Strain sensing behaviors of epoxy nanocomposites with carbon nanotubes under cyclic deformation. <i>Polymer</i> , <b>2017</b> , 112, 1-9	3.9	75
425	Achieving a low electrical percolation threshold and superior mechanical performance in poly(L-lactide)/thermoplastic polyurethane/carbon nanotubes composites via tailoring phase morphology with the aid of stereocomplex crystallites. <b>2017</b> , 7, 11076-11084		15
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423	A novel route towards tunable piezoresistive behavior in conductive polymer composites: Addition of insulating filler with different size and surface characteristics. <b>2017</b> , 96, 99-109		26
422	Morphological regulation improved electrical conductivity and electromagnetic interference shielding in poly(L-lactide)/poly( $\epsilon$ -caprolactone)/carbon nanotube nanocomposites via constructing stereocomplex crystallites. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 2807-2817	7.1	129
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417	Inorganic nanomaterials for printed electronics: a review. <b>2017</b> , 9, 7342-7372		324
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415	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

414	Effects of amino functionalized polyhedral oligomeric silsesquioxanes on cross-linked poly(ethylene oxide) membranes for highly-efficient CO <sub>2</sub> separation. <b>2017</b> , 122, 280-288		26
413	Negative permittivity adjusted by SiO <sub>2</sub> -coated metallic particles in percolative composites. <b>2017</b> , 725, 1259-1263		53
412	Strain sensing of printed carbon nanotube sensors on polyurethane substrate with spray deposition modeling. <b>2017</b> , 3, 1-6		55
411	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
410	Coating formed by SiBCN single source precursor via UV-photopolymerization. <b>2017</b> , 206, 121-123		6
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406	Radio frequency negative permittivity in random carbon nanotubes/alumina nanocomposites. <b>2017</b> , 9, 5779-5787		131
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404	Highly efficient saturated visible up-conversion photoluminescent Y <sub>2</sub> O <sub>3</sub> :Er <sup>3+</sup> microspheres pumped with a 1.55 $\mu$ m laser diode. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 3903-3907	7.1	16
403	Novel shape memory behaviour in IPDI based polyurethanes: Influence of nanoparticle. <i>Polymer</i> , <b>2017</b> , 110, 95-104	3.9	22
402	Balance the electrical properties and mechanical properties of carbon black filled immiscible polymer blends with a double percolation structure. <b>2017</b> , 140, 99-105		91
401	The effect of filler dimensionality on the electromechanical performance of polydimethylsiloxane based conductive nanocomposites for flexible strain sensors. <b>2017</b> , 139, 64-73		222
400	Regulation mechanism of negative permittivity in percolating composites via building blocks. <b>2017</b> , 111, 112903		56
399	Low-cost highly sensitive strain sensors for wearable electronics. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 10571-10577	7.1	15
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396	Three-dimensional and ultralight sponges with tunable conductivity assembled from electrospun nanofibers for a highly sensitive tactile pressure sensor. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 10288-10294	7.1	57
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380	Preparation of Soft Magnetic FeNip/PP Nanocomposites by Multi-Step Dispersion Process. <b>2018</b> , 57, 1726-1732		4
379	Preparation of graphene-glass fiber-resin composites and its electromagnetic shielding performance. <b>2018</b> , 25, 883-900		20

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365	An overview of metamaterials and their achievements in wireless power transfer. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 2925-2943	7.1	135
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363	Simultaneous enhancements in electrical conductivity and toughness of selectively foamed polycarbonate/polystyrene/carbon nanotube microcellular foams. <b>2018</b> , 143, 161-167		34
362	Conductive Nb <sub>2</sub> O <sub>5</sub> and Nb <sub>12</sub> O <sub>29</sub> anode materials for use in high-performance lithium-ion storage. <b>2018</b> , 266, 202-211		29
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358	A highly stretchable and stable strain sensor based on hybrid carbon nanofillers/polydimethylsiloxane conductive composites for large human motions monitoring. <b>2018</b> , 156, 276-286		199
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345	Superior electromagnetic interference shielding effectiveness and electro-mechanical properties of EMA-IRGO nanocomposites through the in-situ reduction of GO from melt blended EMA-GO composites. <b>2018</b> , 134, 46-60		60
344	Flexible electrically resistive-type strain sensors based on reduced graphene oxide-decorated electrospun polymer fibrous mats for human motion monitoring. <b>2018</b> , 126, 360-371		242
343	Design of bio-based conductive and fast crystallizing nanocomposites with controllable distribution of multiwalled carbon nanotubes via interfacial stereocomplexation. <i>Chemical Engineering Journal</i> , <b>2018</b> , 336, 223-232	14.7	14

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337	Electrically conductive polymer composites for smart flexible strain sensors: a critical review. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 12121-12141	7.1	359
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335	Influence of atmospheric species on the electrical properties of functionalized graphene sheets.. <b>2018</b> , 8, 42073-42079		1
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332	Ultrasonic processing of MWCNT nanopaper reinforced polymeric nanocomposites. <i>Polymer</i> , <b>2018</b> , 156, 85-94	3.9	19
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330	Flexible Strain Sensor Based on Carbon Black/Silver Nanoparticles Composite for Human Motion Detection. <b>2018</b> , 11,		43
329	Thermoplastic Elastomer Systems Containing Carbon Nanofibers as Soft Piezoresistive Sensors. <b>2018</b> , 3, 12648-12657		13
328	The role of g-C3N4 as nanofiller in improvement of mechanical, thermal, and X-band wave absorption properties of epoxy vinyl ester coating. <b>2018</b> , 125, 472-480		17
327	Thermoplastic polyurethane-carbon black nanocomposite coating: Fabrication and solid particle erosion resistance. <i>Polymer</i> , <b>2018</b> , 158, 381-390	3.9	129
326	Flexible, Degradable, and Cost-Effective Strain Sensor Fabricated by a Scalable Papermaking Procedure. <b>2018</b> , 6, 15749-15755		30
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323	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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318	The effects of agglomerate on the piezoresistivity of conductive carbon nanotube/polyvinylidene fluoride composites. <b>2018</b> , 281, 176-184		9
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315	Aligned flexible conductive fibrous networks for highly sensitive, ultrastretchable and wearable strain sensors. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 6575-6583	7.1	50
314	Hexavalent chromium removal over magnetic carbon nanoadsorbents: synergistic effect of fluorine and nitrogen co-doping. <b>2018</b> , 6, 13062-13074		130
313	Hexa-[4-(glycidylloxycarbonyl) phenoxy]cyclotriphosphazene chain extender for preparing high-performance flame retardant polyamide 6 composites. <i>Polymer</i> , <b>2018</b> , 146, 63-72	3.9	50
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311	Facile Fabrication of Stretchable Electrodes by Sedimentation of Ag Nanoparticles in PDMS Matrix. <b>2018</b> , 2018, 1-6		1
310	Improved thermal conductivity of polydimethylsiloxane/short carbon fiber composites prepared by spatial confining forced network assembly. <b>2018</b> , 53, 14299-14310		33
309	Piezoresistive characteristics of CNT fiber-incorporated GFRP composites prepared with diversified fabrication schemes. <b>2018</b> , 203, 835-843		11
308	Polystyrene Foam with High Cell Density and Small Cell Size by Compression-Injection Molding and Core Back Foaming Technique: Evolution of Cells in Cavity. <b>2018</b> , 303, 1800110		20
307	Deformable liquid metal polymer composites with tunable electronic and mechanical properties. <b>2018</b> , 33, 2443-2453		26

306	Gold modified polydopamine coated mesoporous silica nano-structures for synergetic chemo-photothermal effect. <b>2018</b> , 171, 176-185		33
305	Hydrothermal Synthesized and Alkaline Activated Carbons Prepared from Glucose and Fructose Detailed Characterization and Testing in Heavy Metals and Methylene Blue Removal. <b>2018</b> , 8, 246		7
304	Effect of the Polyketone Aromatic Pendent Groups on the Electrical Conductivity of the Derived MWCNTs-Based Nanocomposites. <b>2018</b> , 10,		8
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299	Ultralight, highly compressible and fire-retardant graphene aerogel with self-adjustable electromagnetic wave absorption. <b>2018</b> , 139, 1126-1135		245
298	Superior piezoresistive strain sensing behaviors of carbon nanotubes in one-dimensional polymer fiber structure. <b>2018</b> , 140, 1-9		80
297	Conductive bacterial cellulose/multiwall carbon nanotubes nanocomposite aerogel as a potentially flexible lightweight strain sensor. <b>2018</b> , 201, 228-235		72
296	Graphene Nanoplatelets-Based Advanced Materials and Recent Progress in Sustainable Applications. <b>2018</b> , 8, 1438		108
295	Highly sensitive and stretchable graphene-silicone rubber composites for strain sensing. <b>2018</b> , 167, 371-378		111
294	Carbon bead-supported copper-dispersed carbon nanofibers: An efficient catalyst for wet air oxidation of industrial wastewater in a recycle flow reactor. <b>2018</b> , 67, 448-460		10
293	Effect of the elongational flow on morphology and properties of polypropylene/graphene nanoplatelets nanocomposites. <b>2018</b> , 71, 10-17		12
292	Preparation of Fluorinated Graphene Oxide/Polyimide Composites with Low Dielectric Constant and Moisture Resistance. <b>2018</b> , 13, 1850098		6
291	Overview of the Experimental Trends in Water-Assisted Injection Molding. <b>2018</b> , 303, 1800035		20
290	MXenes stretch hydrogel sensor performance to new limits. <b>2018</b> , 4, eaat0098		334
289	Stretchable strain sensors based on PDMS composites with cellulose sponges containing one- and two-dimensional nanocarbons. <b>2018</b> , 279, 90-100		45

288	Optimising composite viscosity leads to high sensitivity electromechanical sensors. <b>2018</b> , 5, 035042		11
287	Negative permittivity behavior of titanium nitride/polyphenylene sulfide nanocomposites under radio frequency. <b>2018</b> , 29, 12144-12151		5
286	Piezoresistivity of conductive polymer nanocomposites: Experiment and modeling. <b>2018</b> , 37, 1085-1098		12
285	Highly Efficient Fe-N-C Nanoparticles Modified Porous Graphene Composites for Oxygen Reduction Reaction. <b>2018</b> , 165, H510-H516		83
284	Piezoresistive thermoplastic polyurethane nanocomposites with carbon nanostructures. <b>2018</b> , 139, 52-58		85
283	3-D magnetic graphene oxide-magnetite poly(vinyl alcohol) nanocomposite substrates for immobilizing enzyme. <i>Polymer</i> , <b>2018</b> , 149, 13-22	3.9	136
282	Highly stretchable and ultrathin nanopaper composites for epidermal strain sensors. <i>Nanotechnology</i> , <b>2018</b> , 29, 355304	3.4	50
281	A mathematical model for predicting conductivity of polymer composites with a forced assembly network obtained by SCFNA method. <i>Polymer Composites</i> , <b>2019</b> , 40, 1819-1827	3	17
280	Material models and finite analysis of additively printed polymer composites. <b>2019</b> , 53, 361-371		7
279	Ultra-Stretchable Porous Fiber-Shaped Strain Sensor with Exponential Response in Full Sensing Range and Excellent Anti-Interference Ability toward Buckling, Torsion, Temperature, and Humidity. <b>2019</b> , 5, 1900538		38
278	Opto-electro-mechanical percolative composites from 2D layered materials: Properties and applications in strain sensing. <b>2019</b> , 182, 107687		10
277	Prevulcanized natural rubber and carbon black: High-deformation piezoresistive composites. <b>2019</b> , 253, 427-429		4
276	Graphene and graphene oxide functionalisation with silanes for advanced dispersion and reinforcement of PMMA-based bone cements. <b>2019</b> , 104, 109946		23
275	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
274	Preparation of and research on bioinspired graphene oxide/nanocellulose/polydopamine ternary artificial nacre. <i>Materials and Design</i> , <b>2019</b> , 181, 107961	8.1	16
273	Supramolecular luminescent triblock copolymer thermoplastic elastomer via metal-ligand coordination. <b>2019</b> , 78, 105956		7
272	Piezoelastic PVDF/TPU Nanofibrous Composite Membrane: Fabrication and Characterization. <b>2019</b> , 11,		13
271	Facile Fabrication of Multifunctional Polymer Composites Based on Three-Dimensional Interconnected Networks of Graphene and Carbon Nanotubes. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 21531-21541	3.9	15

270	Strong, stretchable and ultrasensitive MWCNT/TPU nanocomposites for piezoresistive strain sensing. <b>2019</b> , 177, 107285		44
269	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
268	High-performance coaxial wire-shaped supercapacitors using ionogel electrolyte toward sustainable energy system. <b>2019</b> , 34, 3030-3039		62
267	Review on Smart Gas Sensing Technology. <b>2019</b> , 19,		94
266	A study on graphene composites for peripheral nerve injury repair under electrical stimulation.. <b>2019</b> , 9, 28627-28635		5
265	Enhanced electromagnetic wave absorbing nickel (Oxide)-Carbon nanocomposites. <i>Ceramics International</i> , <b>2019</b> , 45, 24474-24486	5.1	46
264	Stretchable conductive nonwoven fabrics with self-cleaning capability for tunable wearable strain sensor. <b>2019</b> , 66, 104143		154
263	Tuning the composition of conductive thermoplastics for stiffness switching and electrically activated healing. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2019</b> , 30, 2908-2918	2.3	6
262	The critical role of hydroxyl groups in water vapor sensing of graphene oxide. <b>2019</b> , 1, 1319-1330		20
261	Strain-sensitive electrical conductivity of carbon nanotube-graphene-filled rubber composites under cyclic loading. <b>2019</b> , 11, 578-586		64
260	A scalable strategy for constructing three-dimensional segregated graphene network in polymer via hydrothermal self-assembly. <i>Chemical Engineering Journal</i> , <b>2019</b> , 363, 300-308	14.7	27
259	A Green Route Strategy for the Synthesis of Multifunctional Polymer Nanocomposites for Environmental Sustainability. <b>2019</b> , 4, 1491-1501		
258	Highly sensitive, reliable and flexible piezoresistive pressure sensors featuring polyurethane sponge coated with MXene sheets. <b>2019</b> , 542, 54-62		134
257	Structural characterization and thermal degradation of poly(methylmethacrylate)/zinc oxide nanocomposites. <b>2019</b> , 56, 189-196		6
256	Study of chromatographic fractions from carbon dots isolated by column chromatography and a binary gradient elution via RP-HPLC. <b>2019</b> , 11, 760-766		11
255	Superhydrophobic Electrically Conductive Paper for Ultrasensitive Strain Sensor with Excellent Anticorrosion and Self-Cleaning Property. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 21904-21914	8.5	162
254	Monolithic 3D printing of embeddable and highly stretchable strain sensors using conductive ionogels. <i>Nanotechnology</i> , <b>2019</b> , 30, 364002	3.4	9
253	Highly thermal conductive polymer composites via constructing micro-phragmites communis structured carbon fibers. <i>Chemical Engineering Journal</i> , <b>2019</b> , 375, 121921	14.7	67

252	Recent Advances in Polymer and Polymer Composites for Electromagnetic Interference Shielding: Review and Future Prospects. <b>2019</b> , 59, 687-738		74
251	Fabrication of graphene-magnetite multi-granule nanocluster composites for microwave absorption application. <b>2019</b> , 53, 4097-4103		6
250	Porous 3-D thermoplastic polyurethane (TPU) scaffold modified with hydroxyapatite (HA) nanoparticles using an ultrasonic method. <b>2019</b> , 54, 11231-11242		7
249	Organic vapor sensing behavior of polycarbonate/polystyrene/multi-walled carbon nanotube blend composites with different microstructures. <i>Materials and Design</i> , <b>2019</b> , 179, 107897	8.1	7
248	Space resolution improvement for pressure measurement by using a single conductive polymer composite sheet in area array. <b>2019</b> , 295, 324-335		2
247	Direct Current-Powered High-Performance Ionic Hydrogel Strain Sensor Based on Electrochemical Redox Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 24289-24297	9.5	13
246	Highly sensitive natural rubber/pristine graphene strain sensor prepared by a simple method. <b>2019</b> , 171, 138-145		33
245	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
244	Stretchable elastomer composites with segregated filler networks: effect of carbon nanofiller dimensionality. <b>2019</b> , 1, 2337-2347		22
243	Electrically conductive polystyrene nanocomposites incorporated with aspect ratio-controlled silver nanowires. <i>Journal of Applied Polymer Science</i> , <b>2019</b> , 136, 47927	2.9	8
242	Wet-spinning and carbonization of graphene/PAN-based fibers: Toward improving the properties of carbon fibers. <i>Journal of Applied Polymer Science</i> , <b>2019</b> , 136, 47932	2.9	9
241	Universal and anisotropic simulation platform for the study of electrical properties of conductive polymer composites. <b>2019</b> ,		
240	Ultrasensitive embedded sensor for composite joints based on a highly aligned carbon nanotube web. <b>2019</b> , 149, 380-389		19
239	Optimized silk fibroin piezoresistive nanocomposites for pressure sensing applications based on natural polymers. <b>2019</b> , 1, 2284-2292		19
238	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
237	Experimental test on an RC beam equipped with embedded barometric pressure sensors for strains measurement. <b>2019</b> , 28, 055040		5
236	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
235	Multifunctional sensing platform with pulsed-laser-deposited silver nanoporous structures. <b>2019</b> , 293, 136-144		2

234	Using an Ionic Liquid to Reduce the Electrical Percolation Threshold in Biobased Thermoplastic Polyurethane/Graphene Nanocomposites. <b>2019</b> , 11,		5
233	Flexible Sandwich Structural Strain Sensor Based on Silver Nanowires Decorated with Self-Healing Substrate. <b>2019</b> , 304, 1900074		138
232	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
231	Stretchable and compressible piezoresistive sensors from auxetic foam and silver nanowire. <b>2019</b> , 229, 167-173		20
230	Tailored polymer nanocomposite membranes based on carbon, metal oxide and silicon nanomaterials: a review. <b>2019</b> , 7, 8723-8745		79
229	Elastomer Composites with a Tailored Interface Network toward Tunable Piezoresistivity: Effect of Elastomer Particle Size. <b>2019</b> , 1, 714-721		18
228	Effect of carbon nanotube morphology on properties in thermoplastic elastomer composites for strain sensors. <b>2019</b> , 121, 207-212		48
227	Highly Sensitive, Ultrastretchable Strain Sensors Prepared by Pumping Hybrid Fillers of Carbon Nanotubes/Cellulose Nanocrystal into Electrospun Polyurethane Membranes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 12968-12977	9.5	87
226	Highly stretchable multi-walled carbon nanotube/thermoplastic polyurethane composite fibers for ultrasensitive, wearable strain sensors. <b>2019</b> , 11, 5884-5890		103
225	Highly Stretchable, Adaptable, and Durable Strain Sensing Based on a Bioinspired Dynamically Cross-Linked Graphene/Polymer Composite. <b>2019</b> , 15, e1900848		47
224	Selective Laser Sintering Fabricated Thermoplastic Polyurethane/Graphene Cellular Structures with Tailorable Properties and High Strain Sensitivity. <b>2019</b> , 9, 864		23
223	Stress Controllability in Thermal and Electrical Conductivity of 3D Elastic Graphene-Crosslinked Carbon Nanotube Sponge/Polyimide Nanocomposite. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1901383	15.6	107
222	Intrinsically stretchable conductors and interconnects for electronic applications. <b>2019</b> , 3, 1032-1051		12
221	Recent developments in graphene-based polymer composite membranes: Preparation, mass transfer mechanism, and applications. <i>Journal of Applied Polymer Science</i> , <b>2019</b> , 136, 47761	2.9	24
220	Asymmetric deformation in poly(ethylene-co-1-octene)/multi-walled carbon nanotube composites with glass micro-beads for highly piezoresistive sensitivity. <i>Chemical Engineering Journal</i> , <b>2019</b> , 370, 176-184	14.7	22
219	MgO-ZrO <sub>2</sub> mixed nanocomposites: fabrication methods and applications. <b>2019</b> , 3-4, 100007		10
218	Ultrasensitive and Highly Compressible Piezoresistive Sensor Based on Polyurethane Sponge Coated with a Cracked Cellulose Nanofibril/Silver Nanowire Layer. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 10922-10932	9.5	242
217	Conductive Recyclable Organogel Composites. <b>2019</b> , 304, 1800583		3

216	LaMn <sub>1-x</sub> Ti <sub>x</sub> O <sub>3</sub> -NiMn <sub>2</sub> O <sub>4</sub> (0.7): A composite NTC ceramic with controllable electrical property and high stability. <b>2019</b> , 39, 2692-2696		19
215	Highly stretchable and bio-based sensors for sensitive strain detection of angular displacements. <b>2019</b> , 26, 3401-3413		20
214	Investigation on Nonlinear Electromechanical Behavior of Conductive Polymer Composites-based Flexible Strain Sensor. <b>2019</b> ,		1
213	Multiscale modelling of strain-resistance behaviour for graphene rubber composites under large deformation. <b>2019</b> , 11, 21554-21568		6
212	Tubular Sensor with Multi-Axial Strain Sensibility and Heating Capability Based on Bio-Mimic Helical Networks. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 22273-22282	3.9	9
211	Highly-stretchable, self-healable random copolymers for loading large amounts of multiwall carbon nanotubes (MWCNTs) for the preparation of stretchable and healable electric sensors. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 13161-13175	7.1	9
210	Broadband dielectric behavior of the multiwall carbon nanotube-bismuth silicate glass-nanocomposites. <b>2019</b> , 772, 218-229		11
209	Enhanced Thermo-Mechanical Stiffness, Thermal Stability, and Fire Retardant Performance of Surface-Modified 2D MoS <sub>2</sub> Nanosheet-Reinforced Polyurethane Composites. <b>2019</b> , 304, 1800562		16
208	Photo-oxidation of polypropylene/graphene nanoplatelets composites. <b>2019</b> , 160, 35-43		27
207	Graphene rubber composites integrated sealing rings for monitoring contact pressure and the aging process. <b>2019</b> , 118, 171-178		10
206	Direct Current method with reversal polarity for electrical conductivity measurement of TPU/MWCNT composites. <b>2019</b> , 136, 345-355		6
205	Effects of carboxymethyl chitosan microencapsulated melamine polyphosphate on the flame retardancy and water resistance of thermoplastic polyurethane. <b>2019</b> , 160, 168-176		28
204	Fabrication and linearisation of conformable POMANI-Mn <sub>3</sub> O <sub>4</sub> nanocomposite based thermistor for temperature monitoring applications in prosthetic gloves. <b>2019</b> , 285, 588-598		6
203	Synthesis and characterization of nanohybrid materials based on the sulfonated graphene oxide decorated by silver nanoparticles. <b>2019</b> , 6, 025610		2
202	Carbon nanotubes enhanced Sb <sub>6</sub> O <sub>13</sub> as a new anode material for sodium-ion batteries. <b>2019</b> , 25, 523-531		8
201	B <sub>4</sub> C nanoskeleton enabled, flexible lithium-sulfur batteries. <b>2019</b> , 58, 30-39		58
200	Modulating the sensing behaviors of poly(styrene-ethylene-butylene-styrene)/carbon nanotubes with low-dimensional fillers for large deformation sensors. <b>2019</b> , 160, 605-614		17
199	Colorimetric chemosensor for Ni <sup>2+</sup> based on alizarin complexone and a cationic polyelectrolyte in aqueous solution. <i>Journal of Applied Polymer Science</i> , <b>2019</b> , 136, 47496	2.9	9

198	Resistance gradient polymeric electromagnetic shielding composites: Preparation and Characterization. <i>Polymer Composites</i> , <b>2019</b> , 40, 1842-1849	3	5
197	Effect of graphene and fabrication technique on the release kinetics of carvacrol from polylactic acid. <b>2019</b> , 169, 60-69		41
196	Thermally Enhanced n-Type Thermoelectric Behavior in Completely Organic Graphene Oxide-Based Thin Films. <b>2019</b> , 5, 1800465		18
195	Trace electrospayed nanopolystyrene facilitated dispersion of multiwalled carbon nanotubes: Simultaneously strengthening and toughening epoxy. <b>2019</b> , 142, 131-140		133
194	High-performance stretchable conductive nanocomposites: materials, processes, and device applications. <b>2019</b> , 48, 1566-1595		256
193	Graphene loaded with nano-Cu as a highly efficient foam interface material with excellent properties of thermal-electronic conduction, anti-permeation and electromagnetic interference shielding. <i>Chemical Engineering Journal</i> , <b>2019</b> , 361, 1110-1120	14.7	15
192	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
191	Improvement of conductivity of graphene-silver nanowire hybrid through nitrogen doping using low power plasma treatment. <b>2019</b> , 773, 1009-1017		16
190	Self-polarized electrospun polyvinylidene fluoride (PVDF) nanofiber for sensing applications. <b>2019</b> , 160, 1-9		27
189	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
188	Integrated Sensors in Advanced Composites: A Critical Review. <b>2020</b> , 45, 187-238		12
187	Effect of functionalization of iron oxide nanoparticles on the physical properties of poly (aniline-co-pyrrole) based nanocomposites: Experimental and theoretical studies. <b>2020</b> , 13, 2331-2339		9
186	A novel inherently flame-retardant thermoplastic polyamide elastomer. <i>Chemical Engineering Journal</i> , <b>2020</b> , 379, 122278	14.7	16
185	Electrochemical evaluation of functionalized graphene oxide filled PVA-chitosan biohybrid for supercapacitor applications. <i>Journal of Applied Polymer Science</i> , <b>2020</b> , 137, 48610	2.9	13
184	Hybrid systems of three-dimensional carbon nanostructures with low dimensional fillers for piezoresistive sensors. <i>Polymer Composites</i> , <b>2020</b> , 41, 468-477	3	12
183	Highly Sensitive Graphene/Polydimethylsiloxane Composite Films near the Threshold Concentration with Biaxial Stretching. <b>2020</b> , 12,		4
182	Fabrication of a strain sensor from a thermoplastic vulcanizate with an embedded interconnected conducting filler network. <b>2020</b> , 130, 105763		19
181	Enhanced piezoresistive performance of conductive WPU/CNT composite foam through incorporating brittle cellulose nanocrystal. <i>Chemical Engineering Journal</i> , <b>2020</b> , 387, 124045	14.7	69



180	Flexible PVDF/carbon materials/Ni composite films maintaining strong electromagnetic wave shielding under cyclic microwave irradiation. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 500-509	7.1	53
179	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
178	Natural antioxidant functionalization for fabricating ambient-stable black phosphorus nanosheets toward enhancing flame retardancy and toxic gases suppression of polyurethane. <b>2020</b> , 387, 121971		53
177	Recent progress on flexible and stretchable piezoresistive strain sensors: From design to application. <b>2020</b> , 114, 100617		95
176	The preparation of graphene ink from the exfoliation of graphite in pullulan, chitosan and alginate for strain-sensitive paper. <b>2020</b> , 153, 1211-1219		7
175	A stretchable and transparent strain sensor based on sandwich-like PDMS/CNTs/PDMS composite containing an ultrathin conductive CNT layer. <b>2020</b> , 186, 107938		78
174	Self-standing Substrates. <b>2020</b> ,		1
173	Fabrication, characterization and modelling of triple hierarchic PET/CB/TPU composite fibres for strain sensing. <b>2020</b> , 129, 105724		25
172	Photo-Fenton-inspired deoxygenation of tea polyphenol/graphene by household bleach. <b>2020</b> , 30, 449-456		0
171	Self-assembly followed by radical polymerization of ionic liquid for interfacial engineering of black phosphorus nanosheets: Enhancing flame retardancy, toxic gas suppression and mechanical performance of polyurethane. <b>2020</b> , 561, 32-45		57
170	Fabrication, Design and Application of Stretchable Strain Sensors for Tremor Detection in Parkinson Patient. <b>2020</b> , 27, 955-968		5
169	Review on exploration of graphene in the design and engineering of smart sensors, actuators and soft robotics. <b>2020</b> , 4, 100034		22
168	Graphene morphology effect on the gas barrier, mechanical and thermal properties of thermoplastic polyurethane. <b>2020</b> , 200, 108461		13
167	Monotonic strain sensing behavior of self-assembled carbon nanotubes/graphene silicone rubber composites under cyclic loading. <b>2020</b> , 200, 108474		21
166	Flexible and breathable strain sensor with high performance based on MXene/nylon fabric network. <b>2020</b> , 315, 112192		20
165	Highly sensitive, stretchable and durable strain sensors based on conductive double-network polymer hydrogels. <b>2020</b> , 58, 3069-3081		13
164	3D sprayed polyurethane functionalized graphene / carbon nanotubes hybrid architectures to enhance the piezo-resistive response of quantum resistive pressure sensors. <b>2020</b> , 168, 564-579		11
163	Imprinting Graphene on Polymer Substrates via Coextrusion. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 15929-15935	3.9	

162	Dusting Thermoplastic Polyurethane Granules with Carbon Nanotubes toward Highly Stretchable Conductive Elastomer Composites. <b>2020</b> , 2, 4037-4044		9
161	Engineering of Thermoplastic Elastomer with Graphene and Other Anisotropic Nanofillers. <b>2020</b> ,		2
160	Approaching the Limit of Electromechanical Performance in Mixed-Phase Nanocomposites. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 11240-11246	5.6	3
159	Synergistic combination of carbon-black and graphene for 3D printable stretchable conductors. <b>2020</b> , 1-10		6
158	Flexible conductive MXene/cellulose nanocrystal coated nonwoven fabrics for tunable wearable strain/pressure sensors. <b>2020</b> , 8, 21131-21141		80
157	Pattern Directive Sensing Selectivity of Graphene for Wearable Multifunctional Sensors via Femtosecond Laser Fabrication. <b>2020</b> , 5, 2000446		5
156	M13 Bacteriophage-Assisted Morphological Engineering of Crack-Based Sensors for Highly Sensitive and Wide Linear Range Strain Sensing. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 45590-45601 <sup>5</sup>	9.5	5
155	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
154	Graphene/Polyurethane Coatings for Deformable Conductors and Electromagnetic Interference Shielding. <b>2020</b> , 6, 2000429		8
153	Thermoplastic polyurethane/graphene nanoplatelets microcellular foams for electromagnetic interference shielding. <b>2020</b> , 5, 33-39		1
152	Biocompatible, Flexible Strain Sensor Fabricated with Polydopamine-Coated Nanocomposites of Nitrile Rubber and Carbon Black. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 42140-42152	9.5	27
151	Flexible and high-performance piezoresistive strain sensors based on carbon nanoparticles@polyurethane sponges. <b>2020</b> , 200, 108437		28
150	Physicochemical characteristics of bio-based thermoplastic polyurethane/graphene nanocomposite for piezoresistive strain sensor. <i>Journal of Applied Polymer Science</i> , <b>2020</b> , 137, 49364	2.9	6
149	Facile fabrication of stretchable and compressible strain sensors by coating and integrating low-cost melamine foam scaffolds with reduced graphene oxide and poly(styrene-b-ethylene-butylene-b-styrene). <i>Chemical Engineering Journal</i> , <b>2020</b> , 398, 125429	14.7	15
148	Lightweight, transparent piezoresistive sensors conceptualized as anisotropic magnetorheological elastomers: A durability study. <b>2020</b> , 183, 105816		7
147	Use of a Polymer Blend To Disperse Large Amounts of Carbon-Based Fillers To Result in Nanocomposites with Superior Mechanical Properties and Outstanding Conductivities. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 12421-12430	3.9	1
146	Electrical percolation and dynamic piezoresistivity of silver nanoparticle/polydimethylsiloxane films. <b>2020</b> , 7, 045701		
145	Thermoplastic elastomer composite filaments for strain sensing applications extruded with a fused deposition modelling 3D printer. <b>2020</b> , 5, 035002		10

144	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	7.1	12
143	Tailoring sensing behavior of Cu@multi-wall carbon nanotubes/polydimethylsiloxane strain sensors through surface Cu geometrical structures. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 5202-5210	7.1	4
142	Damage Monitoring of Structural Resins Loaded with Carbon Fillers: Experimental and Theoretical Study. <b>2020</b> , 10,		17
141	Development and Characterization of a DC-Driven Thermal Oscillator Using Acrylate-Based Composites. <b>2020</b> , 10, 3825		1
140	Piezoresistive Elastomer-Based Composite Strain Sensors and Their Applications. <b>2020</b> , 2, 1826-1842		24
139	Highly dense 0.3CaCeNbWO8-0.7LaMnO3 composite ceramics fabricated by cold sintering process. <b>2020</b> , 103, 6586-6593		4
138	Electrospinning/Spray: The Interaction between Graphene Nanosheets and Different Nanofibers. <b>2020</b> , 841, 82-86		
137	Recent Progress in Transparent Conductors Based on Nanomaterials: Advancements and Challenges. <b>2020</b> , 5, 1900939		20
136	Flexible PEBAX/graphene electromagnetic shielding composite films with a negative pressure effect of resistance for pressure sensors applications.. <b>2020</b> , 10, 1535-1543		18
135	The low resistance and high sensitivity in stretchable electrode assembled by liquid-phase exfoliated graphene. <i>Polymer</i> , <b>2020</b> , 192, 122301	3.9	3
134	The Application of a Novel Char Source From Petroleum Refining Waste in Flame Retardant Thermoplastic Polyurethane. <b>2020</b> , 60, 1029-1034		7
133	Flexible conductive Ag nanowire/cellulose nanofibril hybrid nanopaper for strain and temperature sensing applications. <b>2020</b> , 65, 899-908		95
132	Self-Derived Superhydrophobic and Multifunctional Polymer Sponge Composite with Excellent Joule Heating and Photothermal Performance for Strain/Pressure Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 13316-13326	9.5	30
131	Strategies for Designing Stretchable Strain Sensors and Conductors. <b>2020</b> , 5, 1900908		42
130	Enhanced electromechanics of morphology-immobilized co-continuous polymer blend/carbon nanotube high-range piezoresistive sensor. <i>Chemical Engineering Journal</i> , <b>2020</b> , 389, 124112	14.7	13
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