

CITATION REPORT

List of articles citing

Tunneling resistance and its effect on the electrical conductivity of carbon nanotube nanocomposites

DOI: 10.1063/1.4716010

Journal of Applied Physics, 2012, 111, 093726.

Source: <https://exaly.com/paper-pdf/53129758/citation-report.pdf>

Version: 2024-04-28

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
216	Estimation of the physical properties of nanocomposites by finite-element discretization and Monte Carlo simulation. 2013 , 371, 20120494		20
215	Numerical investigation on the influence factors of the electrical properties of carbon nanotubes-filled composites. <i>Journal of Applied Physics</i> , 2013 , 113, 244301	2.5	38
214	Atomistic Modeling of Charge Transport across a Carbon Nanotube-Polyethylene Junction. 2013 , 117, 8020-8027		12
213	Modeling electrical conductivity of nanocomposites by considering carbon nanotube deformation at nanotube junctions. <i>Journal of Applied Physics</i> , 2013 , 114, 074303	2.5	56
212	Effect of carbon nanotube geometry upon tunneling assisted electrical network in nanocomposites. <i>Journal of Applied Physics</i> , 2013 , 113, 234313	2.5	35
211	Tunable nanostructured composite with built-in metallic wire-grid electrode. 2013 , 3, 112132		28
210	Effect of CNTs alignment on electrical conductivity of PDMS/MWCNTs composites. 2014 ,		1
209	Tunneling Conductivity and Piezoresistivity of Composites Containing Randomly Dispersed Conductive Nano-Platelets. 2014 , 7, 2501-2521		89
208	Review on Polymers for Thermoelectric Applications. 2014 , 7, 6701-6732		176
207	Effect of Temperature on Electrical Resistivity of Carbon Nanotubes and Graphene Nanoplatelets Nanocomposites. 2014 , 5,		16
206	Effect of orientation anisotropy on calculating effective electrical conductivities. <i>Journal of Applied Physics</i> , 2014 , 115, 203503	2.5	6
205	Modeling sensor behavior of CNT/polymer nanocomposite. 2014 ,		1
204	Carbon nanotube agglomeration effect on piezoresistivity of polymer nanocomposites. 2014 , 55, 5488-5499		86
203	Detection of the position, direction and speed of sliding contact with a multi-layer compliant tactile sensor fabricated using direct-print technology. 2014 , 23, 095008		17
202	A morphological and structural approach to evaluate the electromagnetic performances of composites based on random networks of carbon nanotubes. <i>Journal of Applied Physics</i> , 2014 , 115, 15431-15437	2.5	26
201	A continuum model with a percolation threshold and tunneling-assisted interfacial conductivity for carbon nanotube-based nanocomposites. <i>Journal of Applied Physics</i> , 2014 , 115, 193706	2.5	99
200	Study of electric heating effects on carbon nanotube polymer composites. 2014 , 15, 2734-2741		31

199	Current-voltage characteristics of nanoplatelet-based conductive nanocomposites. 2014 , 9, 369		16
198	Appearance of perfect amorphous linear bulk polyethylene under applied electric field and the analysis by radial distribution function and direct tunneling effect. 2014 , 118, 2226-37		7
197	On the mechanism of piezoresistivity of carbon nanotube polymer composites. 2014 , 55, 4136-4149		72
196	Uncooled Carbon Nanotube Photodetectors. 2015 , 3, 989-1011		95
195	Percolation threshold and electrical conductivity of graphene-based nanocomposites with filler agglomeration and interfacial tunneling. <i>Journal of Applied Physics</i> , 2015 , 118, 065101	2.5	90
194	Investigating the Inter-Tube Conduction Mechanism in Polycarbonate Nanocomposites Prepared with Conductive Polymer-Coated Carbon Nanotubes. 2015 , 10, 485		20
193	Einsatz von Kohlenstoffnanoröhren im Straßenbeton zur Selbstüberwachung. 2015 , 92, 189-195		4
192	Conformal direct-print of piezoresistive polymer/nanocomposites for compliant multi-layer tactile sensors. 2015 , 7, 73-82		29
191	Scaling for quantum tunneling current in nano- and subnano-scale plasmonic junctions. 2015 , 5, 9826		55
190	Improved strain sensing property of functionalised multiwalled carbon nanotube/polyaniline composites in TPU matrix. 2015 , 233, 98-107		37
189	Computational and experimental study of electrical conductivity of graphene/poly(methyl methacrylate) nanocomposite using Monte Carlo method and percolation theory. 2015 , 204, 141-147		17
188	Piezoresistive Strain Sensors Based on Carbon Nanotube Networks: Contemporary approaches related to electrical conductivity.. 2015 , 9, 11-23		12
187	Carbon nanotube/cellulose composite aerogels for vapour sensing. 2015 , 213, 20-26		80
186	Effective electrical conductivity of carbon nanotube-polymer composites: a simplified model and its validation. 2015 , 2, 045602		34
185	Extended width in discontinuously connected polymer-free carbon nanotubes grown between electrodes. 2015 , 459, 24-28		
184	Computational analysis of electrical conduction in hybrid nanomaterials with embedded non-penetrating conductive particles. 2016 , 24, 065004		10
183	Conducting polymerized high-internal-phase emulsion/single-walled carbon nanotube nanocomposite foams: Effect of the aqueous-phase surfactant type on the morphology and conductivity. 2016 , 133,		8
182	Stretchable, Skin-Mountable, and Wearable Strain Sensors and Their Potential Applications: A Review. 2016 , 26, 1678-1698		1692

181	Highly Flexible Wrinkled Carbon Nanotube Thin Film Strain Sensor to Monitor Human Movement. 2016 , 1, 160053		118
180	A theory of electrical conductivity, dielectric constant, and electromagnetic interference shielding for lightweight graphene composite foams. <i>Journal of Applied Physics</i> , 2016 , 120, 085102	2.5	41
179	Charge transport characteristics in nanodielectrics. 2016 ,		
178	Charge transport model in nanodielectric composites based on quantum tunneling mechanism and dual-level traps. 2016 , 109, 062901		12
177	A theoretical and numerical study on percolation mechanism of carbon nanotube network. 2016 ,		
176	Piezoelectric and dielectric characterization of corona and contact poled PZT-epoxy-MWCNT bulk composites. 2016 , 25, 115018		15
175	Monte Carlo simulations of effective electrical conductivity of graphene/poly(methyl methacrylate) nanocomposite: Landauer-Buttiker approach. 2016 , 217, 87-93		25
174	Printing of CNT/silicone rubber for a wearable flexible stretch sensor. 2016 ,		1
173	Mechanical and electrical properties of micron-thick nitrogen-doped tetrahedral amorphous carbon coatings. 2016 , 69, 121-126		23
172	Controlling the electrical conductive network formation of polymer nanocomposites via polymer functionalization. 2016 , 12, 9738-9748		7
171	Development of Flexible Cotton-Polystyrene Sensor for Application as Strain Gauge. 2016 , 16, 8944-8952		7
170	Longitudinal unzipped carbon nanotubes with high specific surface area and trimodal pore structure. 2016 , 6, 8661-8668		11
169	Electromechanical peridynamics modeling of piezoresistive response of carbon nanotube nanocomposites. 2016 , 113, 154-170		29
168	Multiscale modeling of the effect of waviness and agglomeration of CNTs on the elastic properties of nanocomposites. 2016 , 117, 195-204		47
167	Challenges in joining conductive adhesives in structural application [Effects of tolerances and temperature. 2016 , 67, 49-53		6
166	Numerical and Experimental Investigation of the Piezoresistive Behavior of Hybrid Carbon Nanotube Sheet - Graphene Nanocomposites. 2017 ,		2
165	Printable stretchable interconnects. 2017 , 2, 013003		107
164	Carbon nanotube thin film strain sensor models assembled using nano- and micro-scale imaging. 2017 , 60, 39-49		10

163	Numerical and experimental study of radiation induced conductivity change of carbon nanotube filled polymers. 2017 , 28, 255501	2
162	A Review on Organic Polymer-Based Thermoelectric Materials. 2017 , 25, 1208-1218	39
161	Energy Harvesting: Breakthrough Technologies Through Polymer Composites. 2017 , 1-42	
160	Vertically Aligned Carbon Nanotubes as Platform for Biomimetically Inspired Mechanical Sensing, Bioactive Surfaces, and Electrical Cell Interfacing. 2017 , 1, e1700101	11
159	Synthesis of Highly Conductive, Uniformly Silver-Coated Carbon Nanofibers by Electroless Deposition. 2017 , 9, 29010-29020	19
158	Simulation of the tunnelling conductivity in nanotube/dielectric composite. 2017 ,	2
157	A computational approach to determine shielding effectiveness of carbon nanotube-based nanocomposites for EMC application. 2017 , 126, 400-406	13
156	Tough and conductive hybrid graphene-PVA: Alginate fibrous scaffolds for engineering neural construct. 2017 , 111, 752-763	135
155	A frequency-dependent theory of electrical conductivity and dielectric permittivity for graphene-polymer nanocomposites. 2017 , 111, 221-230	97
154	Parametric modeling of conductivity in percolating nanotube network. 2017 ,	1
153	Modeling the conductivity of nanotube networks. 2017 ,	
152	Dispenser printing of piezo-resistive nanocomposite on woven elastic fabric and hysteresis compensation for skin-mountable stretch sensing. 2018 , 27, 025017	9
151	Comparison of 3D and 2D Monte Carlo Models for Piezoresistive Behavior of Hybrid Nanocomposites. 2018 ,	1
150	Hybrid Carbon Nanoparticles in Polymer Matrix for Efficient Connected Networks: Self-Assembly and Continuous Pathways. 2018 , 51, 3547-3562	14
149	AC and DC electrical behavior of MWCNT/epoxy nanocomposite near percolation threshold: Equivalent circuits and percolation limits. <i>Journal of Applied Physics</i> , 2018 , 123, 105109	2.5 13
148	Monte Carlo Model for Piezoresistivity of Hybrid Nanocomposites. 2018 , 140,	19
147	Specific Features of Structure, Electrical Conductivity and Interlayer Adhesion of the Natural Polymer Matrix from the Layers of Branched Carbon Nanotube Networks Filled with Albumin, Collagen and Chitosan. 2018 , 8, 378	3
146	Synthesis of polyvinyl alcohol (PVA) infiltrated MWCNTs buckypaper for strain sensing application. 2018 , 8, 17295	41

145	Mass-Production and Characterizations of Polyvinyl Alcohol/Sodium Alginate/Graphene Porous Nanofiber Membranes Using Needleless Dynamic Linear Electrospinning. 2018 , 10,	17
144	Percolation-based model for tunneling conductivity in systems of partially aligned cylinders. 2018 , 98,	4
143	Effect of MWCNTs on piezoelectric and ferroelectric properties of KNN composites. 2018 , 231, 40-56	13
142	Hybrid Carbon/Silver Nanofillers for Composite Coatings with Near Metallic Electrical Conductivity. 2018 , 20, 1800541	5
141	Strain sensing behaviour of 3D printed carbon black filled ABS. 2018 , 35, 337-342	27
140	Temperature-independent piezoresistive sensors based on carbon nanotube/polymer nanocomposite. 2018 , 137, 188-195	31
139	Highly flexible and stretchable MWCNT/HEPCP nanocomposites with integrated near-IR, temperature and stress sensitivity for electronic skin. 2018 , 6, 5877-5887	31
138	A theoretical model of effective electrical conductivity and piezoresistivity of carbon nanotube composites. 2018 , 98, 38-43	1
137	Electrically-conductive asphalt mastic: Temperature dependence and heating efficiency. 2018 , 157, 303-313	31
136	3D Printing of Highly Stretchable Strain Sensors Based on Carbon Nanotube Nanocomposites. 2018 , 20, 1800425	48
135	Internal Array Electrodes Improve the Spatial Resolution of Soft Tactile Sensors Based on Electrical Resistance Tomography. 2019 ,	9
134	The effect of carbon nanotube chirality on the electrical conductivity of polymer nanocomposites considering tunneling resistance. 2019 , 30, 465701	9
133	Boosting the electrical and mechanical properties of structural dielectric capacitor composites via gold nanoparticle doping. 2019 , 178, 107480	14
132	A generalized self-consistent model for quantum tunneling current in dissimilar metal-insulator-metal junction. 2019 , 9, 085302	30
131	Polyurethane-carbon microfiber composite coating for electrical heating of concrete pavement surfaces. 2019 , 5, e02359	9
130	Analytical formulation for electrical conductivity and percolation threshold of epoxy multiscale nanocomposites reinforced with chopped carbon fibers and wavy carbon nanotubes considering tunneling resistivity. 2019 , 126, 105616	52
129	A Unified View on Nanoscale Packing, Connectivity, and Conductivity of CNT Networks. 2019 , 29, 1807901	9
128	A Monte Carlo model with equipotential approximation and tunneling resistance for the electrical conductivity of carbon nanotube polymer composites. 2019 , 146, 125-138	36

127	Visualized simulation for the nanostructure design of flexible strain sensors: from a numerical model to experimental verification. 2019 , 6, 1892-1898	36
126	Electrically conductive asphalt concrete: An alternative for automating the winter maintenance operations of transportation infrastructure. 2019 , 173, 106985	26
125	Direct 3D Printing of Hybrid Nanofiber-Based Nanocomposites for Highly Conductive and Shape Memory Applications. 2019 , 11, 24523-24532	66
124	Comparison between cement paste and asphalt mastic modified by carbonaceous materials: Electrical and thermal properties. 2019 , 213, 121-130	11
123	Percolating conductive networks in multiwall carbon nanotube-filled polymeric nanocomposites: towards scalable high-conductivity applications of disordered systems. 2019 , 11, 8565-8578	11
122	Highly sensitive compression sensors using three-dimensional printed polydimethylsiloxane/carbon nanotube nanocomposites. 2019 , 30, 1216-1224	17
121	Prediction of electrical conductivity of carbon fiber-carbon nanotube-reinforced polymer hybrid composites. 2019 , 167, 728-735	77
120	Predictions of the electrical conductivity of composites of polymers and carbon nanotubes by an artificial neural network. 2019 , 166, 117-121	22
119	Highly tough and strain sensitive plasma functionalized carbon nanotube/epoxy composites. 2019 , 121, 123-129	20
118	Modeling Electrical Percolation to optimize the Electromechanical Properties of CNT/Polymer Composites in Highly Stretchable Fiber Strain Sensors. 2019 , 9, 20376	9
117	Vapor sensing and interface properties of reduced graphene oxide/poly(methyl methacrylate) nanocomposite. 2019 , 30, 2908-2919	5
116	Electrical characterization of carbon-based fibers and their application for sensing relaxation-induced piezoresistivity in polymer composites. 2019 , 145, 119-130	17
115	Development of high temperature electrical conductive polymeric nanocomposite films for aerospace applications. 2019 , 6, 026422	2
114	Multiscale modeling of the coupled electromechanical behavior of multifunctional nanocomposites. 2019 , 208, 826-835	24
113	Electrodeposition of alginate with PEDOT/PSS coated MWCNTs to make an interpenetrating conducting hydrogel for neural interface. 2019 , 26, 27-40	17
112	Carbon Nanocomposite Based Mechanical Sensing and Energy Harvesting. 2020 , 7, 247-267	16
111	Electrical impedance analysis of carbon nanotube/epoxy nanocomposite-based piezoresistive strain sensors under uniaxial cyclic static tensile loading. 2020 , 54, 845-855	12
110	3D-Printed Sugar Scaffold for High-Precision and Highly Sensitive Active and Passive Wearable Sensors. 2020 , 7, 1902521	17

109	High-efficient multifunctional self-heating nanocomposite-based MWCNTs for energy applications. 2020 , 44, 1113-1124	6
108	Investigating the electron tunneling effect on photovoltaic performance of almond () dye-sensitized solar cell. 2020 , 6, e02961	1
107	A comprehensive evaluation of piezoresistive response and percolation behavior of multiscale polymer-based nanocomposites. 2020 , 130, 105735	23
106	The effect of temperature and graphene concentration on the electrical conductivity and dielectric permittivity of graphene/polymer nanocomposites. 2020 , 231, 1305-1320	11
105	A computational approach to evaluate the nonlinear and noisy DC electrical response in carbon nanotube/polymer nanocomposites near the percolation threshold. 2020 , 173, 109439	2
104	The effect of different GNPs addition on the electrical conductivities and percolation thresholds of the SiAlON matrix composites. 2020 , 40, 1159-1167	6
103	Reliability-based robust design optimization of polymer nanocomposites to enhance percolated electrical conductivity considering correlated input variables using multivariate distributions. 2020 , 186, 122060	8
102	Polarization Parameters and Scaling Matter Flow Processing Environment and Shape Factor Influence Electroactive Nanocomposite Characteristics. 2020 , 4, 141	
101	The effect of nanoparticle conglomeration on the overall conductivity of nanocomposites. 2020 , 157, 103392	28
100	Statistical characterization and simulation of graphene-loaded polypyrrole composite electrical conductivity. 2020 , 9, 15788-15801	6
99	Smart properties of carbon nanotube-epoxy composites. 2020 , 234, 1409-1416	0
98	Network topologies dictate electromechanical coupling in liquid metal-elastomer composites. 2020 , 16, 8818-8825	21
97	Using Current-Voltage Characteristics to Control the Structure of Contacts in Polyethylene Based Composites Modified by Multiwalled Carbon Nanotubes. 2020 , 61, 628-639	2
96	Estimation of average contact number of carbon nanotubes (CNTs) in polymer nanocomposites to optimize the electrical conductivity. 2020 , 1	
95	Experimental Investigation and Modeling of the Dynamic Resistance Response of Carbon Particle-Filled Polymers. 2020 , 305, 2000361	5
94	Using a Novel Approach to Estimate Packing Density and Related Electrical Resistance in Multiwall Carbon Nanotube Networks. 2020 , 10,	2
93	A simulation study for tunneling conductivity of carbon nanotubes (CNT) reinforced nanocomposites by the coefficient of conductivity transferring amongst nanoparticles and polymer medium. 2020 , 17, 103091	2
92	Electrical percolation and dynamic piezoresistivity of silver nanoparticle/polydimethylsiloxane films. 2020 , 7, 045701	

91	Calculating the Electrical Conductivity of Graphene Nanoplatelet Polymer Composites by a Monte Carlo Method. 2020 , 10,	22
90	A review on epoxy-based electrically conductive adhesives. 2020 , 99, 102596	35
89	Coupled electromechanical modeling of piezoresistive behavior of CNT-reinforced nanocomposites with varied morphology and concentration. 2020 , 84, 104053	2
88	Theoretical modeling and experimental verification of percolation threshold with MWCNTs[] rotation and translation around a growing bubble in conductive polymer composite foams. 2020 , 199, 108345	17
87	A computational exploration of the effect of alignment and aspect ratio on alternating current conductivity in carbon nanofiber[]modified epoxy. 2020 , 31, 756-770	9
86	Insights into excluded volume and percolation of soft interphase and conductivity of carbon fibrous composites with core-shell networks. 2020 , 161, 392-402	21
85	Poly(octadecyl acrylate)-Grafted Multiwalled Carbon Nanotube Composites for Wearable Temperature Sensors. 2020 , 3, 2288-2301	8
84	Exfoliated Graphite Nanoplatelet-Carbon Nanotube Hybrid Composites for Compression Sensing. 2020 , 5, 2630-2639	6
83	Piezoresistivity of Cement Matrix Composites Incorporating Multiwalled Carbon Nanotubes due to Moisture Variation. 2020 , 2020, 1-11	
82	Low-Voltage-Driven Large-Amplitude Soft Actuators Based on Phase Transition. 2020 , 7, 688-699	6
81	Methods of modifying through-thickness electrical conductivity of CFRP for use in structural health monitoring, and its effect on mechanical properties [A review. 2020 , 133, 105885	17
80	Uncertainty quantification of percolating electrical conductance for wavy carbon nanotube-filled polymer nanocomposites using Bayesian inference. 2021 , 172, 308-323	6
79	A new analytical model for predicting the electrical conductivity of carbon nanotube nanocomposites. 2021 , 23, 100577	15
78	Mechanical and electrical behaviors of self-sensing nanocomposite-based MWCNTs material when subjected to twist shear load. 2021 , 28, 1488-1497	2
77	Effect of nanofiller morphology on the electrical conductivity of polymer nanocomposites. 2021 , 2, 010019	3
76	On the in-situ on-line structural health monitoring of composites using screen-printed sensors. 089270572110019	
75	Development of Ji Micromechanics Model for Electrical Conductivity of Carbon Nanotubes-reinforced Samples. 2021 , 22, 1889-1898	
74	Enhanced effect of carbon nanofibers on heating efficiency of conductive cementitious composites under ohmic heating curing. 2021 , 117, 103904	8

73	Evaluation and modeling of electrical conductivity in conductive polymer nanocomposite foams with multiwalled carbon nanotube networks. 2021 , 411, 128382	20
72	Piezoresistive modelling of CNTs reinforced composites under mechanical loadings. 2021 , 208, 108757	9
71	Conductance-strain behavior in silver-nanowire composites: network properties of a tunable strain sensor. 2021 , 32,	3
70	Improving the usability of piezoresistive bond lines in wood by using impedance measurements. 2021 , 55, 937-954	
69	Piezoresistive textile layer and distributed electrode structure for soft whole-body tactile skin. 2021 , 30, 085036	4
68	Synergic effect of graphene nanoplatelets and carbon nanotubes on the electrical resistivity and percolation threshold of polymer hybrid nanocomposites. 2021 , 136, 1	2
67	3D Simulation Modeling for the Electrical Conductivity of Carbon Nanotube Networks in Polymer Nanocomposites. 896, 39-44	
66	Improved electric heating characteristics of CNT-embedded polymeric composites with an addition of silica aerogel. 2021 , 212, 108866	12
65	Multiscale modeling and numerical analyses of the electric conductivity of CNT/polymer nanocomposites taking into account the tunneling effect. e2955	0
64	In situ detection of oil leakage by new self-sensing nanocomposite sensor containing MWCNTs. 2021 , 11, 2433	1
63	Analytical-geometrical percolation network model for piezoresistivity of hybrid CNT/polymer nanocomposites using Monte Carlo simulations. 1	1
62	Development of an advanced Takayanagi equation for the electrical conductivity of carbon nanotube-reinforced polymer nanocomposites. 2021 , 157, 110191	0
61	Influence of water ingress on the electrical properties and electromechanical sensing capabilities of CNT/cement composites. 2021 , 42, 103065	7
60	Electrical conductivity of random and aligned nanocomposites: Theoretical models and experimental validation. 2021 , 149, 106543	2
59	Artificial neural network approach for predicting tunneling-induced and frequency-dependent electrical impedances of conductive polymeric composites. 2021 , 302, 130420	5
58	Dynamic thermoelectromechanical characterization of carbon nanotube nanocomposite strain sensors. 2021 , 332, 113122	3
57	Electrical Conductivity of Carbon Nanotube- and Graphene-Based Nanocomposites. 2018 , 123-156	29
56	Modulating the percolation network of polymer nanocomposites for flexible sensors. <i>Journal of Applied Physics</i> , 2020 , 128, 220901	2.5 10

55	Self-Sensing Carbon Nanotube-Cement Composite Material for Structural Health Monitoring of Pavements. 2020 , 48, 20190170	6
54	Development of conductive thin films as piezoresistive strain sensor. 2021 , 125371	0
53	Understanding the sensitivity of thin-film graphene/polymer nanocomposite strain sensors to ultrasonic waves: Analytical and experimental analysis. 2021 , 216, 109079	0
52	A numerical model for predicting the electrical conductivity of nanofilled polymeric matrices. 2017 ,	
51	Simulation of Tunneling Conductivity and Controlled Percolation In 3D Nanotube-Insulator Composite System. 2019 , 307-322	1
50	A microscale percolation model for nanocomposite complex impedance. 2019 ,	
49	Modeling the Influence of Structure Morphology on the Physical and Mechanical Properties of Nanocomposites Based on a Polymer Matrix and Graphene Oxide. 2020 , 55, 316-323	0
48	Predicting effective electrical resistivity and conductivity of carbon nanotube/carbon black-filled polymer matrix hybrid nanocomposites. 2022 , 161, 110444	3
47	Algorithm for constructing full-atomic models of X- and T-shaped seamless junctions between single-walled carbon nanotubes. 2020 , 10, 277-282	
46	Modeling the strain-dependent electrical resistance and strain sensitivity factor of CNT-polymer nanocomposites.	0
45	Monte Carlo analytical-geometrical simulation of piezoresistivity and electrical conductivity of polymeric nanocomposites filled with hybrid carbon nanotubes/graphene nanoplatelets. 2022 , 152, 106716	0
44	Electrothermally triggered selective shape memory capabilities of CNT doped nanocomposites by Digital Light Processing. 2022 , 218, 109185	1
43	Self-adaptive cardiac optogenetics device based on negative stretching-resistive strain sensor. 2021 , 7, eabj4273	4
42	Effects of exposure temperature on the piezoresistive sensing performances of MWCNT-embedded cementitious sensor. 2022 , 47, 103816	3
41	Effective electrical conductivity of CNT/polymer nanocomposites. 2020 ,	
40	Enhanced electrical heating capability of CNT-embedded cementitious composites exposed to water ingress with addition of silica aerogel. 2022 ,	1
39	Structural engineering from an inverse problems perspective.. 2022 , 478, 20210526	0
38	An innovated method to monitor the health condition of the thermoelectric cooling system using nanocomposite-based CNTs.	

37	Prediction of piezoresistive sensitivity and percolation probability of synergetic CNT-GNP conductive network composite. 2022 , 336, 113414	2
36	Modeling of the piezoresistive behavior of carbon nanotube/polymer composites during stress relaxation.	0
35	Using a Supercritical Fluid-Assisted Thin Cell Wall Stretching/Defoaming Method to Enhance the Nanofiller Dispersion, EMI Shielding, and Thermal Conduction Property of CNF/PVDF Nanocomposites. 2022 , 61, 3647-3659	1
34	Transparent conductive polymer composites obtained via electrostatically assembled carbon nanotubes/poly (methyl methacrylate) composite particles. 2022 , 33, 103528	0
33	A novel temperature-dependent percolation model for the electrical conductivity and piezoresistive sensitivity of carbon nanotube-filled nanocomposites. 2022 , 230, 117870	4
32	Development of piezoresistive PDMS/MWCNT foam nanocomposite sensor with ultrahigh flexibility and compressibility. 1045389X2110643	0
31	Tuning of a mechanics model for the electrical conductivity of CNT-filled samples assuming extended CNT. 2022 , 137, 1	1
30	OUP accepted manuscript.	1
29	Electrically conductive polymer nanocomposites for thermal comfort in electric vehicles. 2022 , 229-251	1
28	Effect of inter-filler transport on AC piezoresistivity in CNF-modified epoxy nanocomposites. 2022 ,	
27	Multifunctionality of Nanoengineered Self-Sensing Lattices Enabled by Additive Manufacturing. 2200194	0
26	Conductive CNT-polymer nanocomposites digital twins for self-diagnostic structures: Sensitivity to CNT parameters. 2022 , 291, 115617	1
25	Effects of adding GPLs dispersed at different sonication times on the thermal and electrical conductivities of spark plasma sintered silicon carbide. 2022 , 287, 126230	0
24	Evaluation of conductivity and piezo-impedance response of VACNTs/PDMS nanocomposite-based strain sensors under small deformations. 2022 , 113626	
23	Fabrication of self-assembly CNT flexible film and its piezoresistive sensing behaviors. 2022 , 11, 2050-2060	0
22	Graphene nano-platelet (GNP)/doped poly (methyl methacrylate) (PMMA) spray-coated piezoresistive-based 2D strain sensor under temperature environment on aluminium alloy 2024-T351. 2022 , 24,	0
21	Epoxy Nanocomposites with Carbon Nanotubes. 169-200	
20	Tunneling Percolation Mechanism of Conductivity for PEDOT:PSS in Hydrophilic PDMS Composite for the Fabrication of Highly Sensitive Strain Sensor. 2200077	0

19	Design of a Smart Conducting Nanocomposite with an Extended Strain Sensing Range by Conjugating Hybrid Structures. 2022 , 14, 2551	0
18	Graphene/nickel/carbon fiber composite conductive asphalt: Optimization, electrical properties and heating performance. 2022 , 17, e01402	
17	Conductivity Prediction Method of Carbon Nanotube Resin Composites Considering the Quantum Tunnelling Effect. 2022 , 15, 5982	0
16	Modelling the effects of carbon nanotube length non-uniformity and waviness on the electrical behavior of polymer composites. 2022 ,	0
15	Thermal conductivity of several geopolymer composites and discussion of their formulation.	1
14	New insight into natural fiber-reinforced polymer composites as pressure sensors: Experiment, theory, and application.	0
13	Charge Transport in Functionalized Octopus-Shaped Multi-Walled Carbon Nanotube/Graphene Hybrids: Implications for Extremely Stretchable Conductors.	0
12	Uncertainties in Electric Circuit Analysis of Anisotropic Electrical Conductivity and Piezoresistivity of Carbon Nanotube Nanocomposites. 2022 , 14, 4794	2
11	Theoretical modelling for piezoresistive behavior of aligned carbon nanotube/polymer nanocomposites accounting for evolution of agglomerates morphology. 2022 , 104931	0
10	Bolometric properties of uncooled semiconductor carbon nanotubes.	1
9	Developing a high-efficiency predictive model for self-temperature-compensated piezoresistive properties of carbon nanotube/graphene nanoplatelet polymer-based nanocomposites. 2023 , 166, 107380	0
8	Carbon Nanotubes Networking in Styrene-Butadiene Rubber: A Dynamic Mechanical and Dielectric Spectroscopy Study. 2200514	0
7	Optimization of Non-Pyrolyzed Lignin Electrodes for Sustainable Batteries. 2200396	0
6	Simulation of electrical conductivity for polymer silver nanowires systems. 2023 , 13,	0
5	Unravelling the sensory capability of MWCNT-reinforced nanocomposites: Experimental and numerical investigations. 2023 , 204, 147-161	0
4	Carbon-Based Piezoresistive Polymer Nanocomposites by Extrusion Additive Manufacturing: Process, Material Design, and Current Progress.	0
3	A Universal Method for Extracting and Quantitatively Analyzing Bias-Dependent Contact Resistance in Carbon-Nanotube Thin-Film Transistors. 2201148	0
2	A critical review of carbon materials engineered electrically conductive cement concrete and its potential applications. 1-27	0

1 Simulating of effective conductivity for graphene polymer nanocomposites. **2023**, 13,

o