Sung-Hoon Park

List of Publications by Year
in descending order

56 papers	1,303 citations	394390 19 h-index	361001 35 g-index
56 all docs	56 docs citations	56 times ranked	1956 citing authors

#	Article	IF	Citations
1	Comparison of Pressure Sensing Properties of Carbon Nanotubes and Carbon Black Polymer Composites. Materials, 2022, 15, 1213.	2.9	12
2	Electrical and Thermal Properties of Carbon Nanotube Polymer Composites with Various Aspect Ratios. Materials, 2022, 15, 1356.	2.9	33
3	Characteristics of Functionalized Carbon Nanotube Composites to Reinforce Hydrogen Storage Applications. Journal of Korean Institute of Metals and Materials, 2022, 60, 237-243.	1.0	2
4	A study on fabrication of polypyrrole@lignin composite and electrical sensing and metal ion adsorption capabilities. Materials Chemistry and Physics, 2022, 285, 126166.	4.0	3
5	Effect of aspect ratio on piezo-resistance properties of aligned multi-walled carbon nanotube polymer composites. Materials Chemistry and Physics, 2022, 286, 126226.	4.0	0
6	Design of a Smart Conducting Nanocomposite with an Extended Strain Sensing Range by Conjugating Hybrid Structures. Polymers, 2022, 14, 2551.	4.5	2
7	Flexible Carbon Nanotube/Polydimethylsiloxane Composite for the De-Icing of Airplane Wings. Journal of Nanoscience and Nanotechnology, 2021, 21, 1779-1783.	0.9	3
8	Flexible Thin Carbon Nanotube Web Film for Curved Heating Elements Under High Temperature Conditions. Journal of Nanoscience and Nanotechnology, 2021, 21, 1809-1814.	0.9	1
9	Versatile chemical sensors using oligosaccharides on cleanable PDMS/graphene hybrids for monitoring environmentally hazardous substances. Applied Surface Science, 2020, 507, 145139.	6.1	7
10	Bending Properties of Carbon Nanotube/Polymer Composites with Various Aspect Ratios and Filler Contents. Micromachines, 2020, 11, 857.	2.9	6
11	An elaborate sensor system based on conducting polymer-oligosaccharides in hydrogel and the formation of inclusion complexes. Journal of Industrial and Engineering Chemistry, 2020, 90, 266-273.	5.8	5
12	Flexible Chemical Sensors Using Signal Generation from Cyclodextrin-Analyte Interactions on Polymer Composites. Biochip Journal, 2020, 14, 251-257.	4.9	6
13	Strain-Sensing Properties of Multi-Walled Carbon Nanotube/Polydimethylsiloxane Composites with Different Aspect Ratio and Filler Contents. Materials, 2020, 13, 2431.	2.9	31
14	Effect of Filler Alignment on Piezo-Resistive and Mechanical Properties of Carbon Nanotube Composites. Materials, 2020, 13, 2598.	2.9	12
15	Seamless Tube-Type Heater with Uniform Thickness and Temperature Distribution Based on Carbon Nanotubes Aligned by Circumferential Shearing. Materials, 2019, 12, 3283.	2.9	5
16	Improved Electromagnetic Interference Shielding Properties Through the Use of Segregate Carbon Nanotube Networks. Materials, 2019, 12, 1395.	2.9	19
17	Modeling the electrical resistivity of polymer composites with segregated structures. Nature Communications, 2019, 10, 2537.	12.8	94
18	Development of Multi-Functional Graphene Polymer Composites Having Electromagnetic Interference Shielding and De-Icing Properties. Polymers, 2019, 11, 2101.	4.5	33

#	Article	IF	Citations
19	Effect of Dispersion by Three-Roll Milling on Electrical Properties and Filler Length of Carbon Nanotube Composites. Materials, 2019, 12, 3823.	2.9	27
20	Conducting Super-Hydrophobic Thin Film for Electric Heating Applications. Journal of Nanoscience and Nanotechnology, 2019, 19, 1506-1510.	0.9	7
21	Electrical Properties of the Carbon-Nanotube Composites Film Under Extreme Temperature Condition. Journal of Nanoscience and Nanotechnology, 2019, 19, 1682-1685.	0.9	9
22	In Situ Photoelectron Spectroscopy Study on the Buffer Role of Multiwalled Carbon Nanotubes against Thermal Degradation in Organic Conducting Composite Films with PEDOT:PSS. Journal of Physical Chemistry C, 2019, 123, 2238-2247.	3.1	9
23	Surface engineered poly(dimethylsiloxane)/carbon nanotube nanocomposite pad as a flexible platform for chemical sensors. Composites Part A: Applied Science and Manufacturing, 2018, 107, 55-60.	7.6	17
24	Study on the Sensing Signal Profiles for Determination of Process Window of Flexible Sensors Based on Surface Treated PDMS/CNT Composite Patches. Polymers, 2018, 10, 951.	4.5	21
25	Enhanced adhesion properties of conductive super-hydrophobic surfaces by using zirco-aluminate coupling agent. Journal of Industrial and Engineering Chemistry, 2018, 68, 387-392.	5.8	8
26	Nanotube and poly(3,4-ethylenedioxythiophene):polystyrene sulfonate (PEDOT:PSS) composite film for the electrode applications in organic thin-film transistor and dye-sensitized solar cells. Nanotechnology, 2018, 29, 395704.	2.6	2
27	Enhanced dispersion and material properties of multi-walled carbon nanotube composites through turbulent Taylor-Couette flow. Composites Part A: Applied Science and Manufacturing, 2017, 95, 118-124.	7.6	17
28	Effects of Ag addition and Ag 3 Sn formation on the mechanical reliability of Ni/Sn solder joints. Microelectronics Reliability, 2017, 75, 53-58.	1.7	6
29	Large reduction in electrical contact resistance of flexible carbon nanotube/silicone rubber composites by trifluoroacetic acid treatment. Composites Science and Technology, 2017, 143, 98-105.	7.8	14
30	Enhancement of optical performance of the light emitting diode packages with advanced thermal design of die-attaching layers. Journal of Materials Science: Materials in Electronics, 2017, 28, 5174-5179.	2.2	2
31	Carbon Nanotube Nanocomposite Having Segregated Network Structure for Wearable Thermotherapy Application. IEEE Electron Device Letters, 2017, 38, 1489-1491.	3.9	5
32	Applications of Functionalized Carbon Nanotubes for the Therapy and Diagnosis of Cancer. Polymers, 2017, 9, 13.	4.5	54
33	Polymer Composite Containing Carbon Nanotubes and their Applications. Recent Patents on Nanotechnology, 2017, 11, 109-115.	1.3	15
34	Dynamic superhydrophobic behavior in scalable random textured polymeric surfaces. Journal of Applied Physics, 2016, 119, .	2.5	11
35	Electrical heating behavior of flexible carbon nanotube composites with different aspect ratios. Journal of Industrial and Engineering Chemistry, 2016, 35, 195-198.	5.8	36
36	Sb-Al C -C Nanocomposite Alloy Anodes for Lithium-Ion Batteries. Electrochimica Acta, 2016, 210, 567-574.	5.2	14

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37	Suppression of negative temperature coefficient of resistance of multiwalled nanotube/silicone rubber composite through segregated conductive network and its application to laser-printing fusing element. Organic Electronics, 2016, 37, 371-378.	2.6	22
38	Resistance Complemented Carbon-Nanotube Composite for Laser Printer Fusers Element. IEEE Electron Device Letters, 2016, 37, 1204-1206.	3.9	2
39	Influence of polyvinylpyrrolidone (PVP) capping layer on silver nanowire networks: theoretical and experimental studies. RSC Advances, 2016, 6, 30972-30977.	3.6	63
40	Control of Microdomain Alignment in Block Copolymer Electrolytes for Proton Exchange Membranes Using an Electric Field. Science of Advanced Materials, 2016, 8, 22-27.	0.7	1
41	Bioinspired superhydrophobic surfaces, fabricated through simple and scalable roll-to-roll processing. Scientific Reports, 2015, 5, 15430.	3.3	27
42	Fabrication of a Hybrid Carbon-Based Composite for Flexible Heating Element With a Zero Temperature Coefficient of Resistance. IEEE Electron Device Letters, 2015, 36, 50-52.	3.9	16
43	Tailoring environment friendly carbon nanostructures by surfactant mediated interfacial engineering. Journal of Industrial and Engineering Chemistry, 2015, 30, 1-9.	5.8	15
44	Enhanced thermoelectric performance of Bi0.5Sb1.5Te3-expanded graphene composites by simultaneous modulation of electronic and thermal carrier transport. Nano Energy, 2015, 13, 67-76.	16.0	100
45	Enhanced thermal and mechanical properties of carbon nanotube composites through the use of functionalized CNT-reactive polymer linkages and three-roll milling. Composites Part A: Applied Science and Manufacturing, 2015, 77, 142-146.	7.6	55
46	Study on the molecular distribution of organic composite films by combining photoemission spectroscopy with argon gas cluster ion beam sputtering. Journal of Materials Chemistry C, 2015, 3, 276-282.	5.5	13
47	Smart conducting polymer composites having zero temperature coefficient of resistance. Nanoscale, 2015, 7, 471-478.	5.6	79
48	Elaborate Chemical Sensors Based on Graphene/Conducting Polymer Hybrids. Current Organic Chemistry, 2015, 19, 1117-1133.	1.6	11
49	Direct comparative study on the energy level alignments in unoccupied/occupied states of organic semiconductor/electrode interface by constructing in-situ photoemission spectroscopy and Ar gas cluster ion beam sputtering integrated analysis system. Journal of Applied Physics, 2014, 116, .	2.5	14
50	Study of electric heating effects on carbon nanotube polymer composites. Organic Electronics, 2014, 15, 2734-2741.	2.6	52
51	Superior electromagnetic interference shielding and dielectric properties of carbon nanotube composites through the use of high aspect ratio CNTs and three-roll milling. Organic Electronics, 2013, 14, 1531-1537.	2.6	79
52	Design of multi-functional dual hole patterned carbon nanotube composites with superhydrophobicity and durability. Nano Research, 2013, 6, 389-398.	10.4	45
53	Pentacene Orientation on Source/Drain Electrodes and Its Effect on Charge Carrier Transport at Pentacene/Electrode Interface, Investigated Using In Situ Ultraviolet Photoemission Spectroscopy and Device Characteristics. Journal of the Electrochemical Society, 2013, 160, H436-H442.	2.9	15
54	An electronic structure reinterpretation of the organic semiconductor/electrode interface based on argon gas cluster ion beam sputtering investigations. Journal of Applied Physics, 2013, 114, 013703.	2.5	21

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55	The experimental determination of the onset of electrical and thermal conductivity percolation thresholds in carbon nanotube-polymer composites. Materials Research Society Symposia Proceedings, 2011, 1312, 1.	0.1	16
56	Enhanced Electromagnetic Interference Shielding Through the Use of Functionalized Carbon-Nanotube-Reactive Polymer Composites. IEEE Nanotechnology Magazine, 2010, 9, 464-469.	2.0	109