

Sung-Hoon Park

List of Publications by Year in descending order

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56
papers

1,303
citations

394286

19
h-index

360920

35
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56
all docs

56
docs citations

56
times ranked

1956
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced Electromagnetic Interference Shielding Through the Use of Functionalized Carbon-Nanotube-Reactive Polymer Composites. IEEE Nanotechnology Magazine, 2010, 9, 464-469.	1.1	109
2	Enhanced thermoelectric performance of Bi _{0.5} Sb _{1.5} Te ₃ -expanded graphene composites by simultaneous modulation of electronic and thermal carrier transport. Nano Energy, 2015, 13, 67-76.	8.2	100
3	Modeling the electrical resistivity of polymer composites with segregated structures. Nature Communications, 2019, 10, 2537.	5.8	94
4	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.	1.4	79
5	Smart conducting polymer composites having zero temperature coefficient of resistance. Nanoscale, 2015, 7, 471-478.	2.8	79
6	Influence of polyvinylpyrrolidone (PVP) capping layer on silver nanowire networks: theoretical and experimental studies. RSC Advances, 2016, 6, 30972-30977.	1.7	63
7	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.	3.8	55
8	Applications of Functionalized Carbon Nanotubes for the Therapy and Diagnosis of Cancer. Polymers, 2017, 9, 13.	2.0	54
9	Study of electric heating effects on carbon nanotube polymer composites. Organic Electronics, 2014, 15, 2734-2741.	1.4	52
10	Design of multi-functional dual hole patterned carbon nanotube composites with superhydrophobicity and durability. Nano Research, 2013, 6, 389-398.	5.8	45
11	Electrical heating behavior of flexible carbon nanotube composites with different aspect ratios. Journal of Industrial and Engineering Chemistry, 2016, 35, 195-198.	2.9	36
12	Development of Multi-Functional Graphene Polymer Composites Having Electromagnetic Interference Shielding and De-Icing Properties. Polymers, 2019, 11, 2101.	2.0	33
13	Electrical and Thermal Properties of Carbon Nanotube Polymer Composites with Various Aspect Ratios. Materials, 2022, 15, 1356.	1.3	33
14	Strain-Sensing Properties of Multi-Walled Carbon Nanotube/Polydimethylsiloxane Composites with Different Aspect Ratio and Filler Contents. Materials, 2020, 13, 2431.	1.3	31
15	Bioinspired superhydrophobic surfaces, fabricated through simple and scalable roll-to-roll processing. Scientific Reports, 2015, 5, 15430.	1.6	27
16	Effect of Dispersion by Three-Roll Milling on Electrical Properties and Filler Length of Carbon Nanotube Composites. Materials, 2019, 12, 3823.	1.3	27
17	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.	1.4	22
18	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.	1.1	21

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19	Study on the Sensing Signal Profiles for Determination of Process Window of Flexible Sensors Based on Surface Treated PDMS/CNT Composite Patches. <i>Polymers</i> , 2018, 10, 951.	2.0	21
20	Improved Electromagnetic Interference Shielding Properties Through the Use of Segregate Carbon Nanotube Networks. <i>Materials</i> , 2019, 12, 1395.	1.3	19
21	Enhanced dispersion and material properties of multi-walled carbon nanotube composites through turbulent Taylor-Couette flow. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 95, 118-124.	3.8	17
22	Surface engineered poly(dimethylsiloxane)/carbon nanotube nanocomposite pad as a flexible platform for chemical sensors. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 107, 55-60.	3.8	17
23	The experimental determination of the onset of electrical and thermal conductivity percolation thresholds in carbon nanotube-polymer composites. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1312, 1.	0.1	16
24	Fabrication of a Hybrid Carbon-Based Composite for Flexible Heating Element With a Zero Temperature Coefficient of Resistance. <i>IEEE Electron Device Letters</i> , 2015, 36, 50-52.	2.2	16
25	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. <i>Journal of the Electrochemical Society</i> , 2013, 160, H436-H442.	1.3	15
26	Tailoring environment friendly carbon nanostructures by surfactant mediated interfacial engineering. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 30, 1-9.	2.9	15
27	Polymer Composite Containing Carbon Nanotubes and their Applications. <i>Recent Patents on Nanotechnology</i> , 2017, 11, 109-115.	0.7	15
28	Direct comparative study on the energy level alignments in unoccupied/occupied states of organic semiconductor/electrode interface by constructing <i>in-situ</i> photoemission spectroscopy and Ar gas cluster ion beam sputtering integrated analysis system. <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	14
29	Sb-Al C-C Nanocomposite Alloy Anodes for Lithium-Ion Batteries. <i>Electrochimica Acta</i> , 2016, 210, 567-574.	2.6	14
30	Large reduction in electrical contact resistance of flexible carbon nanotube/silicone rubber composites by trifluoroacetic acid treatment. <i>Composites Science and Technology</i> , 2017, 143, 98-105.	3.8	14
31	Study on the molecular distribution of organic composite films by combining photoemission spectroscopy with argon gas cluster ion beam sputtering. <i>Journal of Materials Chemistry C</i> , 2015, 3, 276-282.	2.7	13
32	Effect of Filler Alignment on Piezo-Resistive and Mechanical Properties of Carbon Nanotube Composites. <i>Materials</i> , 2020, 13, 2598.	1.3	12
33	Comparison of Pressure Sensing Properties of Carbon Nanotubes and Carbon Black Polymer Composites. <i>Materials</i> , 2022, 15, 1213.	1.3	12
34	Dynamic superhydrophobic behavior in scalable random textured polymeric surfaces. <i>Journal of Applied Physics</i> , 2016, 119, .	1.1	11
35	Elaborate Chemical Sensors Based on Graphene/Conducting Polymer Hybrids. <i>Current Organic Chemistry</i> , 2015, 19, 1117-1133.	0.9	11
36	Electrical Properties of the Carbon-Nanotube Composites Film Under Extreme Temperature Condition. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 1682-1685.	0.9	9

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37	In Situ Photoelectron Spectroscopy Study on the Buffer Role of Multiwalled Carbon Nanotubes against Thermal Degradation in Organic Conducting Composite Films with PEDOT:PSS. <i>Journal of Physical Chemistry C</i> , 2019, 123, 2238-2247.	1.5	9
38	Enhanced adhesion properties of conductive super-hydrophobic surfaces by using zirco-aluminate coupling agent. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 68, 387-392.	2.9	8
39	Conducting Super-Hydrophobic Thin Film for Electric Heating Applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 1506-1510.	0.9	7
40	Versatile chemical sensors using oligosaccharides on cleanable PDMS/graphene hybrids for monitoring environmentally hazardous substances. <i>Applied Surface Science</i> , 2020, 507, 145139.	3.1	7
41	Effects of Ag addition and Ag ₃ Sn formation on the mechanical reliability of Ni/Sn solder joints. <i>Microelectronics Reliability</i> , 2017, 75, 53-58.	0.9	6
42	Bending Properties of Carbon Nanotube/Polymer Composites with Various Aspect Ratios and Filler Contents. <i>Micromachines</i> , 2020, 11, 857.	1.4	6
43	Flexible Chemical Sensors Using Signal Generation from Cyclodextrin-Analyte Interactions on Polymer Composites. <i>Biochip Journal</i> , 2020, 14, 251-257.	2.5	6
44	Carbon Nanotube Nanocomposite Having Segregated Network Structure for Wearable Thermotherapy Application. <i>IEEE Electron Device Letters</i> , 2017, 38, 1489-1491.	2.2	5
45	Seamless Tube-Type Heater with Uniform Thickness and Temperature Distribution Based on Carbon Nanotubes Aligned by Circumferential Shearing. <i>Materials</i> , 2019, 12, 3283.	1.3	5
46	An elaborate sensor system based on conducting polymer-oligosaccharides in hydrogel and the formation of inclusion complexes. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 90, 266-273.	2.9	5
47	Flexible Carbon Nanotube/Polydimethylsiloxane Composite for the De-Icing of Airplane Wings. <i>Journal of Nanoscience and Nanotechnology</i> , 2021, 21, 1779-1783.	0.9	3
48	A study on fabrication of polypyrrole@lignin composite and electrical sensing and metal ion adsorption capabilities. <i>Materials Chemistry and Physics</i> , 2022, 285, 126166.	2.0	3
49	Resistance Complemented Carbon-Nanotube Composite for Laser Printer Fusers Element. <i>IEEE Electron Device Letters</i> , 2016, 37, 1204-1206.	2.2	2
50	Enhancement of optical performance of the light emitting diode packages with advanced thermal design of die-attaching layers. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 5174-5179.	1.1	2
51	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. <i>Nanotechnology</i> , 2018, 29, 395704.	1.3	2
52	Characteristics of Functionalized Carbon Nanotube Composites to Reinforce Hydrogen Storage Applications. <i>Journal of Korean Institute of Metals and Materials</i> , 2022, 60, 237-243.	0.4	2
53	Design of a Smart Conducting Nanocomposite with an Extended Strain Sensing Range by Conjugating Hybrid Structures. <i>Polymers</i> , 2022, 14, 2551.	2.0	2
54	Flexible Thin Carbon Nanotube Web Film for Curved Heating Elements Under High Temperature Conditions. <i>Journal of Nanoscience and Nanotechnology</i> , 2021, 21, 1809-1814.	0.9	1

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55	Control of Microdomain Alignment in Block Copolymer Electrolytes for Proton Exchange Membranes Using an Electric Field. <i>Science of Advanced Materials</i> , 2016, 8, 22-27.	0.1	1
56	Effect of aspect ratio on piezo-resistance properties of aligned multi-walled carbon nanotube polymer composites. <i>Materials Chemistry and Physics</i> , 2022, 286, 126226.	2.0	0