

Sukanta De

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45
papers

18,922
citations

27
h-index

47
g-index

47
ext. papers

20,485
ext. citations

9.4
avg, IF

6.11
L-index

#	Paper	IF	Citations
45	Two-dimensional nanosheets produced by liquid exfoliation of layered materials. <i>Science</i> , 2011 , 331, 568-71	33.3	5221
44	High-yield production of graphene by liquid-phase exfoliation of graphite. <i>Nature Nanotechnology</i> , 2008 , 3, 563-8	28.7	4715
43	Liquid phase production of graphene by exfoliation of graphite in surfactant/water solutions. <i>Journal of the American Chemical Society</i> , 2009 , 131, 3611-20	16.4	1821
42	Silver Nanowire Networks as Flexible, Transparent, Conducting Films: Extremely High DC to Optical Conductivity Ratios. <i>ACS Nano</i> , 2009 , 3, 1767-74	16.7	1343
41	Large-scale exfoliation of inorganic layered compounds in aqueous surfactant solutions. <i>Advanced Materials</i> , 2011 , 23, 3944-8	24	888
40	High-concentration, surfactant-stabilized graphene dispersions. <i>ACS Nano</i> , 2010 , 4, 3155-62	16.7	826
39	High-concentration solvent exfoliation of graphene. <i>Small</i> , 2010 , 6, 864-71	11	810
38	Are there fundamental limitations on the sheet resistance and transmittance of thin graphene films?. <i>ACS Nano</i> , 2010 , 4, 2713-20	16.7	462
37	Electrical connectivity in single-walled carbon nanotube networks. <i>Nano Letters</i> , 2009 , 9, 3890-5	11.5	377
36	Flexible, transparent, conducting films of randomly stacked graphene from surfactant-stabilized, oxide-free graphene dispersions. <i>Small</i> , 2010 , 6, 458-64	11	342
35	Size effects and the problem with percolation in nanostructured transparent conductors. <i>ACS Nano</i> , 2010 , 4, 7064-72	16.7	269
34	Transparent, flexible, and highly conductive thin films based on polymer-nanotube composites. <i>ACS Nano</i> , 2009 , 3, 714-20	16.7	256
33	Characterization and dielectric properties of polyaniline/TiO ₂ nanocomposites. <i>Nanotechnology</i> , 2004 , 15, 1277-1283	3.4	238
32	The effects of percolation in nanostructured transparent conductors. <i>MRS Bulletin</i> , 2011 , 36, 774-781	3.2	193
31	The spatial uniformity and electromechanical stability of transparent, conductive films of single walled nanotubes. <i>Carbon</i> , 2009 , 47, 2466-2473	10.4	155
30	The dependence of the optoelectrical properties of silver nanowire networks on nanowire length and diameter. <i>Nanotechnology</i> , 2012 , 23, 185201	3.4	107
29	The relationship between network morphology and conductivity in nanotube films. <i>Journal of Applied Physics</i> , 2008 , 104, 044302	2.5	106

28	Improvement of transparent conducting nanotube films by addition of small quantities of graphene. <i>ACS Nano</i> , 2010 , 4, 4238-46	16.7	102
27	Thermoelectric behavior of organic thin film nanocomposites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013 , 51, 119-123	2.6	99
26	Percolation effects in supercapacitors with thin, transparent carbon nanotube electrodes. <i>ACS Nano</i> , 2012 , 6, 1732-41	16.7	80
25	Engineering of ZnO/rGO nanocomposite photocatalyst towards rapid degradation of toxic dyes. <i>Materials Chemistry and Physics</i> , 2019 , 223, 456-465	4.4	74
24	High-Performance Transparent Conductors from Networks of Gold Nanowires. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 3058-3062	6.4	71
23	On the factors controlling the mechanical properties of nanotube films. <i>Carbon</i> , 2008 , 46, 41-47	10.4	44
22	Cytogenotoxic potential of a hazardous material, polystyrene microparticles on <i>Allium cepa</i> L. <i>Journal of Hazardous Materials</i> , 2020 , 385, 121560	12.8	39
21	Magnetic field induced electrochemical performance enhancement in reduced graphene oxide anchored Fe ₃ O ₄ nanoparticle hybrid based supercapacitor. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 375501	3	34
20	Development of transparent, conducting composites by surface infiltration of nanotubes into commercial polymer films. <i>Carbon</i> , 2009 , 47, 1983-1988	10.4	33
19	Electrical transport and optical properties of vanadyl phosphate/polyaniline nanocomposites. <i>Journal of Physics and Chemistry of Solids</i> , 2007 , 68, 66-72	3.9	32
18	Highly efficient photocatalytic activity of CuO quantum dot decorated rGO nanocomposites. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 315107	3	25
17	Hydrothermally synthesized BiVO ₄ /reduced graphene oxide nanocomposite as a high performance supercapacitor electrode with excellent cycle stability. <i>New Journal of Chemistry</i> , 2018 , 42, 10161-10166	3.6	24
16	Mixed solvent exfoliated transition metal oxides nanosheets based flexible solid state supercapacitor devices endowed with high energy density. <i>New Journal of Chemistry</i> , 2019 , 43, 12385-12395	3.6	23
15	Efficient Flexible White-Light Photodetectors Based on BiFeO ₃ Nanoparticles. <i>ACS Applied Nano Materials</i> , 2018 , 1, 625-631	5.6	19
14	MoS ₂ Nanosheet/rGO Hybrid: An Electrode Material for High Performance Thin Film Supercapacitor. <i>Materials Today: Proceedings</i> , 2018 , 5, 9771-9775	1.4	19
13	Optical and electrical characterizations of self-assembled CdS nanorods/polyaniline composites. <i>Journal of Applied Physics</i> , 2007 , 101, 093711	2.5	18
12	Development of an effective electrochemical platform for highly sensitive DNA detection using MoS ₂ - polyaniline nanocomposites. <i>Biochemical Engineering Journal</i> , 2018 , 140, 130-139	4.2	18
11	Light-weight flexible solid-state supercapacitor based on highly crystalline 2D BiOCl nanoplates/MWCNT nanocomposites. <i>Journal of Alloys and Compounds</i> , 2020 , 820, 153115	5.7	9

10	Large polaron tunneling and anomalous dielectric response in complex layered systems. <i>Journal of Applied Physics</i> , 2006 , 100, 024105	2.5	8
9	Transparent conducting films from NbSe ₃ nanowires. <i>Nanotechnology</i> , 2011 , 22, 285202	3.4	6
8	Few layered MoO ₃ nano sheets-SWCNT composite thin film as supercapacitor electrode 2017 ,		4
7	One-dimensional MoO ₃ nanorods for high energy density pseudocapacitor 2018 ,		3
6	Mixed protonic-electronic conduction and dielectric response in layered vanadyl phosphate nanocomposites. <i>Journal of Chemical Physics</i> , 2006 , 125, 224704	3.9	3
5	Few-layered MnO ₂ /SWCNT hybrid in-plane supercapacitor with high energy density 2018 ,		2
4	Few layered vanadyl phosphate nano sheets-MWCNT hybrid as an electrode material for supercapacitor application 2016 ,		2
3	A facile hydrothermal approach to synthesize rGO/BiVO ₄ photocatalysts for visible light induced degradation of RhB dye 2018 ,		1
2	Toxicological impacts of nanopolystyrene on zebrafish oocyte with insight into the mechanism of action: An expression-based analysis.. <i>Science of the Total Environment</i> , 2022 , 154796	10.2	1
1	A BICHROMOPHORIC ORGANIC-INORGANIC SEMICONDUCTOR NANOCOMPOSITE: DEVICE READY BROAD SPECTRAL RESPONSE LIGHT-HARVESTING MATERIAL WITH ENHANCED PHOTORESPONSE. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020 , 597, 124707	5.1	