

Nitin Chopra

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

1,561
citations

933447

10
h-index

526287

27
g-index

39
all docs

39
docs citations

39
times ranked

2527
citing authors

#	ARTICLE	IF	CITATIONS
1	Aligned Multiwalled Carbon Nanotube Membranes. <i>Science</i> , 2004, 303, 62-65.	12.6	1,251
2	Perspectives on supercapacitors, pseudocapacitors and batteries. <i>Nanomaterials and Energy</i> , 2012, 1, 136-158.	0.2	41
3	Surfactant-free synthesis of novel copper oxide (CuO) nanowire-cobalt oxide (Co ₃ O ₄) nanoparticle heterostructures and their morphological control. <i>Journal of Nanoparticle Research</i> , 2011, 13, 851-868.	1.9	36
4	Progress in Large-Scale Production of Graphene. Part 1: Chemical Methods. <i>Jom</i> , 2015, 67, 34-43.	1.9	34
5	Nano-carbon-based hybrids and heterostructures: progress in growth and application for lithium-ion batteries. <i>Journal of Materials Science</i> , 2015, 50, 7843-7865.	3.7	31
6	Morphological evolution of gold nanoparticles on silicon nanowires and their plasmonics. <i>RSC Advances</i> , 2015, 5, 49708-49718.	3.6	30
7	Progress in Large-Scale Production of Graphene. Part 2: Vapor Methods. <i>Jom</i> , 2015, 67, 44-52.	1.9	27
8	Structural evolution and stability studies of heterostructures comprised of carbon nanotubes decorated with nickel/nickel oxide core/shell nanoparticles. <i>Carbon</i> , 2011, 49, 3645-3662.	10.3	22
9	Gold nanoparticle integrated with nanostructured carbon and quantum dots: synthesis and optical properties. <i>Gold Bulletin</i> , 2015, 48, 73-83.	2.4	13
10	Synthesis of Nanoscale Heterostructures Comprised of Metal Nanowires, Carbon Nanotubes, and Metal Nanoparticles: Investigation of Their Structure and Electrochemical Properties. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-13.	2.7	10
11	Integrated Computational Materials Engineering: A Multi-Scale Approach. <i>Jom</i> , 2015, 67, 118-119.	1.9	9
12	Self-patterning of graphene-encapsulated gold nanoparticles for surface-enhanced Raman spectroscopy. <i>MRS Communications</i> , 2018, 8, 79-87.	1.8	7
13	Undergraduate Education in Nanotechnology and Nanoscience. <i>Jom</i> , 2012, 64, 1127-1129.	1.9	5
14	Growth of silicon nanowires-based heterostructures and their plasmonic modeling. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1547, 103-108.	0.1	5
15	Fabrication and electrochemical properties of copper oxide (CuO) nanowire-cobalt oxide (Co ₃ O ₄) nanoparticle heterostructures for oxygen evolution reaction. <i>Nanomaterials and Energy</i> , 2014, 3, 93-101.	0.2	5
16	Optical properties of nanostructured carbon and gold nanoparticle hybrids. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1700, 79-82.	0.1	5
17	CuO nanowire-Co ₃ O ₄ nanoparticle heterostructures and their vertically aligned and horizontally suspended architectures. <i>Materials Research Society Symposia Proceedings</i> , 2010, 1256, 1.	0.1	4
18	Nanoscale heterostructures comprised of silicon nanowires and gold nanoparticles encapsulated in graphitic shells for DNA immobilization. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1572, 1.	0.1	4

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19	Si nanowire-gold nanoparticles heterostructures for surface enhanced Raman spectroscopy. Materials Research Society Symposia Proceedings, 2013, 1551, 67-72.	0.1	4
20	Cobalt oxide-tungsten oxide nanowire heterostructures: Fabrication and characterization. Materials Research Society Symposia Proceedings, 2014, 1675, 191-196.	0.1	4
21	Solution growth of ZnO microwires and grass architectures. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2013, 178, 785-793.	3.5	3
22	Synthesis and Characterization of Carbon Nanotube-Nickel/Nickel Oxide Core/shell Nanoparticle Heterostructures Incorporated in Polyvinyl Alcohol Hydrogel. Materials Research Society Symposia Proceedings, 2010, 1272, 1.	0.1	2
23	Fabrication of thermally-conductive carbon nanotubes-copper oxide heterostructures. Materials Research Society Symposia Proceedings, 2013, 1543, 119-124.	0.1	2
24	Harnessing sunlight by photocatalysis: a sustainable pathway for renewable fuels and clean water. Nanomaterials and Energy, 2013, 2, 114-116.	0.2	2
25	Book reviewGinleyDavid S.CahenDavid. Cambridge University Press, New York,NY, USA, 2012, ISBN: 978-1-107-00023-0, \$105.00, 753 pp. Nanomaterials and Energy, 2014, 3, 66-66.	0.2	1
26	Materials selection, processing and structureâ€“function relationships for energy materials. Nanomaterials and Energy, 2013, 2, 59-59.	0.2	0
27	Going from material defects to heat-transfer analysis: impacting our understanding of nanomaterials for energy efficiency. Nanomaterials and Energy, 2013, 2, 179-179.	0.2	0
28	Development of nanotechnology experimental modules using ferrofluids for high school classrooms. Materials Research Society Symposia Proceedings, 2013, 1583, 1.	0.1	0
29	Energy nanomaterials: bridging the gap between fundamental science and applied aspects. Nanomaterials and Energy, 2014, 3, 67-67.	0.2	0
30	Necessary steps in designing energy materials: from experiments to predictive modeling. Nanomaterials and Energy, 2014, 3, 102-102.	0.2	0
31	Editorial: from bulk materials to layered hydroxides: promising aspects of the energy sector. Nanomaterials and Energy, 2014, 3, 148-148.	0.2	0
32	Editorial: alternative energy systems: materials for nanofluids, electrochromics, photocatalysis, and thermoelectrics. Nanomaterials and Energy, 2014, 3, 192-192.	0.2	0
33	Chemical Vapor Deposition Mechanism of Graphene-Encapsulated Au Nanoparticle Heterostructures and Their Plasmonics. ACS Applied Materials & Interfaces, 2021, 13, 58134-58143.	8.0	0