

Nitin Chopra

List of Publications by Year in descending order

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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	Chemical Vapor Deposition Mechanism of Graphene-Encapsulated Au Nanoparticle Heterostructures and Their Plasmonics. ACS Applied Materials & Interfaces, 2021, 13, 58134-58143.	8.0	0
2	Self-patterning of graphene-encapsulated gold nanoparticles for surface-enhanced Raman spectroscopy. MRS Communications, 2018, 8, 79-87.	1.8	7
3	Synthesis of Nanoscale Heterostructures Comprised of Metal Nanowires, Carbon Nanotubes, and Metal Nanoparticles: Investigation of Their Structure and Electrochemical Properties. Journal of Nanomaterials, 2015, 2015, 1-13.	2.7	10
4	Morphological evolution of gold nanoparticles on silicon nanowires and their plasmonics. RSC Advances, 2015, 5, 49708-49718.	3.6	30
5	Progress in Large-Scale Production of Graphene. Part 2: Vapor Methods. Jom, 2015, 67, 44-52.	1.9	27
6	Progress in Large-Scale Production of Graphene. Part 1: Chemical Methods. Jom, 2015, 67, 34-43.	1.9	34
7	Integrated Computational Materials Engineering: A Multi-Scale Approach. Jom, 2015, 67, 118-119.	1.9	9
8	Gold nanoparticle integrated with nanostructured carbon and quantum dots: synthesis and optical properties. Gold Bulletin, 2015, 48, 73-83.	2.4	13
9	Nano-carbon-based hybrids and heterostructures: progress in growth and application for lithium-ion batteries. Journal of Materials Science, 2015, 50, 7843-7865.	3.7	31
10	Fabrication and electrochemical properties of copper oxide (CuO) nanowire-cobalt oxide (Co ₃ O ₄) nanoparticle heterostructures for oxygen evolution reaction. Nanomaterials and Energy, 2014, 3, 93-101.	0.2	5
11	Cobalt oxide-tungsten oxide nanowire heterostructures: Fabrication and characterization. Materials Research Society Symposia Proceedings, 2014, 1675, 191-196.	0.1	4
12	Optical properties of nanostructured carbon and gold nanoparticle hybrids. Materials Research Society Symposia Proceedings, 2014, 1700, 79-82.	0.1	5
13	Energy nanomaterials: bridging the gap between fundamental science and applied aspects. Nanomaterials and Energy, 2014, 3, 67-67.	0.2	0
14	Necessary steps in designing energy materials: from experiments to predictive modeling. Nanomaterials and Energy, 2014, 3, 102-102.	0.2	0
15	Editorial: from bulk materials to layered hydroxides: promising aspects of the energy sector. Nanomaterials and Energy, 2014, 3, 148-148.	0.2	0
16	Editorial: alternative energy systems: materials for nanofluids, electrochromics, photocatalysis, and thermoelectrics. Nanomaterials and Energy, 2014, 3, 192-192.	0.2	0
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Nanoscale heterostructures comprised of silicon nanowires and gold nanoparticles encapsulated in graphitic shells for DNA immobilization. Materials Research Society Symposia Proceedings, 2013, 1572, 1.	0.1	4
20	Fabrication of thermally-conductive carbon nanotubes-copper oxide heterostructures. Materials Research Society Symposia Proceedings, 2013, 1543, 119-124.	0.1	2
21	Si nanowire-gold nanoparticles heterostructures for surface enhanced Raman spectroscopy. Materials Research Society Symposia Proceedings, 2013, 1551, 67-72.	0.1	4
22	Growth of silicon nanowires-based heterostructures and their plasmonic modeling. Materials Research Society Symposia Proceedings, 2013, 1547, 103-108.	0.1	5
23	Materials selection, processing and structure–function relationships for energy materials. Nanomaterials and Energy, 2013, 2, 59-59.	0.2	0
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	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
26	Development of nanotechnology experimental modules using ferrofluids for high school classrooms. Materials Research Society Symposia Proceedings, 2013, 1583, 1.	0.1	0
27	Perspectives on supercapacitors, pseudocapacitors and batteries. Nanomaterials and Energy, 2012, 1, 136-158.	0.2	41
28	Undergraduate Education in Nanotechnology and Nanoscience. Jom, 2012, 64, 1127-1129.	1.9	5
29	Surfactant-free synthesis of novel copper oxide (CuO) nanowire–cobalt oxide (Co ₃ O ₄) nanoparticle heterostructures and their morphological control. Journal of Nanoparticle Research, 2011, 13, 851-868.	1.9	36
30	Structural evolution and stability studies of heterostructures comprised of carbon nanotubes decorated with nickel/nickel oxide core/shell nanoparticles. Carbon, 2011, 49, 3645-3662.	10.3	22
31	CuO nanowire–Co ₃ O ₄ nanoparticle heterostructures and their vertically aligned and horizontally suspended architectures. Materials Research Society Symposia Proceedings, 2010, 1256, 1.	0.1	4
32	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
33	Aligned Multiwalled Carbon Nanotube Membranes. Science, 2004, 303, 62-65.	12.6	1,251