

Amarjyoti Choudhury

List of Publications by Year in descending order

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44
papers

3,061
citations

218677

26
h-index

289244

40
g-index

44
all docs

44
docs citations

44
times ranked

4453
citing authors

#	ARTICLE	IF	CITATIONS
1	Defect generation, d-d transition, and band gap reduction in Cu-doped TiO ₂ nanoparticles. International Nano Letters, 2013, 3, 1.	5.0	313
2	Ce ³⁺ and oxygen vacancy mediated tuning of structural and optical properties of CeO ₂ nanoparticles. Materials Chemistry and Physics, 2012, 131, 666-671.	4.0	302
3	Oxygen defect dependent variation of band gap, Urbach energy and luminescence property of anatase, anatase-rutile mixed phase and of rutile phases of TiO ₂ nanoparticles. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 56, 364-371.	2.7	220
4	Oxygen defects and formation of Ce ³⁺ affecting the photocatalytic performance of CeO ₂ nanoparticles. RSC Advances, 2014, 4, 4663-4671.	3.6	181
5	Luminescence characteristics of cobalt doped TiO ₂ nanoparticles. Journal of Luminescence, 2012, 132, 178-184.	3.1	143
6	Shallow and deep trap emission and luminescence quenching of TiO ₂ nanoparticles on Cu doping. Applied Nanoscience (Switzerland), 2014, 4, 499-506.	3.1	142
7	Extending Photocatalytic Activity of TiO ₂ Nanoparticles to Visible Region of Illumination by Doping of Cerium. Photochemistry and Photobiology, 2012, 88, 257-264.	2.5	124
8	Lattice distortion and corresponding changes in optical properties of CeO ₂ nanoparticles on Nd doping. Current Applied Physics, 2013, 13, 217-223.	2.4	118
9	Oxygen vacancy and dopant concentration dependent magnetic properties of Mn doped TiO ₂ nanoparticle. Current Applied Physics, 2013, 13, 1025-1031.	2.4	115
10	Local structure modification and phase transformation of TiO ₂ nanoparticles initiated by oxygen defects, grain size, and annealing temperature. International Nano Letters, 2013, 3, 1.	5.0	113
11	Room temperature ferromagnetism in defective TiO ₂ nanoparticles: Role of surface and grain boundary oxygen vacancies. Journal of Applied Physics, 2013, 114, .	2.5	109
12	Annealing temperature and oxygen-vacancy-dependent variation of lattice strain, band gap and luminescence properties of CeO ₂ nanoparticles. Journal of Experimental Nanoscience, 2015, 10, 103-114.	2.4	103
13	Dopant induced changes in structural and optical properties of Cr ³⁺ doped TiO ₂ nanoparticles. Materials Chemistry and Physics, 2012, 132, 1112-1118.	4.0	100
14	Investigation of optical properties of SnO ₂ nanoparticles. Physica E: Low-Dimensional Systems and Nanostructures, 2013, 47, 257-263.	2.7	99
15	Structural and optical properties of Cu doped SnO ₂ nanoparticles: An experimental and density functional study. Journal of Applied Physics, 2013, 113, .	2.5	98
16	Investigation of the optical property and photocatalytic activity of mixed phase nanocrystalline titania. Applied Nanoscience (Switzerland), 2014, 4, 839-847.	3.1	97
17	Oxygen defect assisted paramagnetic to ferromagnetic conversion in Fe doped TiO ₂ nanoparticles. RSC Advances, 2014, 4, 29314.	3.6	76
18	Room temperature ferromagnetism in SnO ₂ nanoparticles: an experimental and density functional study. Journal of Materials Chemistry C, 2014, 2, 9294-9302.	5.5	65

#	ARTICLE	IF	CITATIONS
19	Ce ³⁺ /Nd codoping effect on the structural and optical properties of TiO ₂ nanoparticles. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2013, 178, 239-247.	3.5	62
20	Narrowing of band gap and effective charge carrier separation in oxygen deficient TiO ₂ nanotubes with improved visible light photocatalytic activity. <i>Journal of Colloid and Interface Science</i> , 2016, 465, 1-10.	9.4	60
21	Structural, optical and ferromagnetic properties of Cr doped TiO ₂ nanoparticles. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2013, 178, 794-800.	3.5	57
22	Evanescent Wave Coupled Spectroscopic Sensing Using Smartphone. <i>IEEE Photonics Technology Letters</i> , 2014, 26, 568-570.	2.5	52
23	Enhanced visible light photocatalytic activity of Gadolinium doped nanocrystalline titania: An experimental and theoretical study. <i>Journal of Colloid and Interface Science</i> , 2015, 439, 54-61.	9.4	45
24	Interplay of dopants and defects in making Cu doped TiO ₂ nanoparticle a ferromagnetic semiconductor. <i>Journal of Alloys and Compounds</i> , 2015, 646, 692-698.	5.5	37
25	Structural, optical and photocatalytic properties of TiO ₂ /SnO ₂ and SnO ₂ /TiO ₂ core-shell nanocomposites: An experimental and DFT investigation. <i>Chemical Physics</i> , 2014, 434, 1-10.	1.9	36
26	Investigation of structural and magnetic properties of nanoscale Cu doped SnO ₂ : An experimental and density functional study. <i>Journal of Alloys and Compounds</i> , 2015, 627, 261-267.	5.5	36
27	Luminescence studies of fresh water diatom frustules. <i>Indian Journal of Physics</i> , 2010, 84, 665-669.	1.8	25
28	Surface Plasmon Resonance-Based Protein Bio-Sensing Using a Kretschmann Configured Double Prism Arrangement. <i>IEEE Sensors Journal</i> , 2015, 15, 6791-6796.	4.7	25
29	Exploring the structural and magnetic properties of TiO ₂ /SnO ₂ core/shell nanocomposite: An experimental and density functional study. <i>Journal of Solid State Chemistry</i> , 2014, 220, 124-131.	2.9	20
30	Mie scattering computation of spherical particles with very large size parameters using an improved program with variable speed and accuracy. <i>Journal of Modern Optics</i> , 2010, 57, 2192-2202.	1.3	18
31	Adverse effect of Mn doping on the magnetic ordering in Mn doped TiO ₂ nanoparticles. <i>Materials Research Express</i> , 2015, 2, 096104.	1.6	12
32	Vacancy induced p-orbital ferromagnetism in MgO nanocrystallite. <i>Journal of Alloys and Compounds</i> , 2020, 819, 153060.	5.5	11
33	All Fiber-Optic Sensor for Monitoring Pressure Fluctuations in ON/OFF State. <i>IEEE Sensors Journal</i> , 2013, 13, 1148-1152.	4.7	10
34	Influence of ion bombardment on the photoluminescence response of embedded CdS nanoparticles. <i>Open Physics</i> , 2006, 4, .	1.7	8
35	Fiber-Optic Volumetric Sensor Based on Beer-Lambert Principle. <i>IEEE Sensors Journal</i> , 2013, 13, 3345-3346.	4.7	8
36	Structural and optical properties of core-shell Ag ₂ S/HgS nanostructures. <i>Materials Research Bulletin</i> , 2013, 48, 2543-2548.	5.2	8

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37	Effect of nickel doping on the optical property and photocatalytic activity of titanium dioxide nanoparticles. <i>Micro and Nano Letters</i> , 2013, 8, 184-187.	1.3	5
38	Construction of a multidetector array incorporated laser-based scattering system for ultrafine TiO ₂ characterization. <i>Journal of Optics (India)</i> , 2009, 38, 67-74.	1.7	3
39	Laboratory measurements of the light scattering properties of bentonite clay particles embedded in a cylindrical polymer matrix. <i>Journal of Modern Optics</i> , 2013, 60, 603-610.	1.3	3
40	Studies of optical properties and SHI irradiation on PbS sensitized nanoporous TiO ₂ network. <i>Journal of Optics (India)</i> , 2009, 38, 169-176.	1.7	1
41	Daylight photocatalytic activity of TiO ₂ /SnO ₂ core/shell nanostructures: An experimental and density functional study. , 2014, , .		1
42	Super Resolution and Better Contrast in Second Harmonic Scanning Optical Microscope with Low Power Laser Beam. <i>Journal of Optics (India)</i> , 2004, 33, 29-35.	1.7	0
43	Enhanced visible light photo catalytic activity of mixed phase nanocrystalline titania. , 2013, , .		0
44	Development of an Internet Web Application for the Study of Surface Plasmon Resonance Spectroscopy. <i>Plasmonics</i> , 2017, 12, 453-463.	3.4	0