

Biswajit Choudhury

List of Publications by Year in descending order

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45
papers

3,396
citations

126907

33
h-index

254184

43
g-index

46
all docs

46
docs citations

46
times ranked

4900
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrated Orthorhombic/Hexagonal Mixed-Phase WO ₃ Core-Shell Nanoribbons for Hole-Mediated Photocatalysis. ACS Applied Nano Materials, 2022, 5, 3599-3610.	5.0	17
2	Synergy of Adsorption and Plasmonic Photocatalysis in the Au-CeO ₂ Nanosystem: Experimental Validation and Plasmonic Modeling. Langmuir, 2022, 38, 7628-7638.	3.5	14
3	Plasmonic photocatalyst for hydrogen energy generation. , 2021, , 253-278.		0
4	Plasmon activation versus plasmon quenching on the overall photocatalytic performance of Ag/Au bimetal decorated g-C ₃ N ₄ nanosheets under selective photoexcitation: A mechanistic understanding with experiment and theory. Applied Catalysis B: Environmental, 2021, 298, 120614.	20.2	38
5	Simultaneous layer exfoliation and defect activation in g-C ₃ N ₄ nanosheets with air-water interfacial plasma: spectroscopic defect probing with tailored optical properties. Nanoscale Advances, 2021, 3, 3260-3271.	4.6	11
6	Vacancy induced p-orbital ferromagnetism in MgO nanocrystallite. Journal of Alloys and Compounds, 2020, 819, 153060.	5.5	11
7	Evidence for plasmonic hot electron injection induced superior visible light photocatalysis by g-C ₃ N ₄ nanosheets decorated with Ag-TiO ₂ (B) and Au-TiO ₂ (B) nanorods. Solar Energy Materials and Solar Cells, 2019, 201, 110053.	6.2	38
8	Unraveling the Catalytic and Plasmonic Roles of g-C ₃ N ₄ Supported Ag and Au Nanoparticles Under Selective Photoexcitation. ACS Sustainable Chemistry and Engineering, 2019, 7, 19295-19302.	6.7	39
9	Carbon Nitride: A Wonder Photocatalyst. Environmental Chemistry for A Sustainable World, 2019, , 167-209.	0.5	1
10	Evolution of Nitrogen-Related Defects in Graphitic Carbon Nitride Nanosheets Probed by Positron Annihilation and Photoluminescence Spectroscopy. Journal of Physical Chemistry C, 2018, 122, 9209-9219.	3.1	66
11	<i>In situ</i> decoration of plasmonic Au nanoparticles on graphene quantum dots-graphitic carbon nitride hybrid and evaluation of its visible light photocatalytic performance. Nanotechnology, 2017, 28, 395703.	2.6	53
12	Plasmon-enhanced strong visible light photocatalysis by defect engineered CVD graphene and graphene oxide physically functionalized with Au nanoparticles. Catalysis Science and Technology, 2016, 6, 7101-7112.	4.1	24
13	Isotype heterostructure of bulk and nanosheets of graphitic carbon nitride for efficient visible light photodegradation of methylene blue. RSC Advances, 2016, 6, 24976-24984.	3.6	60
14	Narrowing of band gap and effective charge carrier separation in oxygen deficient TiO ₂ nanotubes with improved visible light photocatalytic activity. Journal of Colloid and Interface Science, 2016, 465, 1-10.	9.4	60
15	A novel thermophotocatalyst of mixed-phase cerium oxide (CeO ₂ /Ce ₂ O ₃) homocomposite nanostructure: Role of interface and oxygen vacancies. Solar Energy Materials and Solar Cells, 2015, 141, 414-422.	6.2	119
16	A comprehensive secondary ion mass spectrometry analysis of ZnO nanowalls: Correlation to photocatalytic responses. Journal of Applied Physics, 2015, 117, .	2.5	9
17	Interplay of dopants and defects in making Cu doped TiO ₂ nanoparticle a ferromagnetic semiconductor. Journal of Alloys and Compounds, 2015, 646, 692-698.	5.5	37
18	Adverse effect of Mn doping on the magnetic ordering in Mn doped TiO ₂ nanoparticles. Materials Research Express, 2015, 2, 096104.	1.6	12

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19	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
20	Annealing temperature and oxygen-vacancy-dependent variation of lattice strain, band gap and luminescence properties of CeO ₂ nanoparticles. <i>Journal of Experimental Nanoscience</i> , 2015, 10, 103-114.	2.4	103
21	Microstructural, optical and magnetic properties study of nanocrystalline MgO. <i>Materials Research Express</i> , 2014, 1, 025026.	1.6	39
22	Shallow and deep trap emission and luminescence quenching of TiO ₂ nanoparticles on Cu doping. <i>Applied Nanoscience (Switzerland)</i> , 2014, 4, 499-506.	3.1	142
23	Magnetic property study of Gd doped TiO ₂ nanoparticles. <i>Journal of Alloys and Compounds</i> , 2014, 601, 201-206.	5.5	53
24	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. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014, 56, 364-371.	2.7	220
25	Oxygen defects and formation of Ce ³⁺ affecting the photocatalytic performance of CeO ₂ nanoparticles. <i>RSC Advances</i> , 2014, 4, 4663-4671.	3.6	181
26	Room temperature ferromagnetism in SnO ₂ nanoparticles: an experimental and density functional study. <i>Journal of Materials Chemistry C</i> , 2014, 2, 9294-9302.	5.5	65
27	Oxygen defect assisted paramagnetic to ferromagnetic conversion in Fe doped TiO ₂ nanoparticles. <i>RSC Advances</i> , 2014, 4, 29314.	3.6	76
28	Monitoring F, F+ and F ₂₊ related intense defect emissions from nanocrystalline MgO. <i>Journal of Luminescence</i> , 2014, 149, 280-286.	3.1	37
29	Contribution of Paramagnetic Surface F ⁺ and Ti ³⁺ Centers to Ferromagnetism in Pure and Defective TiO ₂ Nanoparticles. <i>Science of Advanced Materials</i> , 2014, 6, 2115-2123.	0.7	12
30	Lattice distortion and corresponding changes in optical properties of CeO ₂ nanoparticles on Nd doping. <i>Current Applied Physics</i> , 2013, 13, 217-223.	2.4	118
31	Defect generation, d-d transition, and band gap reduction in Cu-doped TiO ₂ nanoparticles. <i>International Nano Letters</i> , 2013, 3, 1.	5.0	313
32	Oxygen vacancy and dopant concentration dependent magnetic properties of Mn doped TiO ₂ nanoparticle. <i>Current Applied Physics</i> , 2013, 13, 1025-1031.	2.4	115
33	Room temperature ferromagnetism in defective TiO ₂ nanoparticles: Role of surface and grain boundary oxygen vacancies. <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	109
34	Ce-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
35	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
36	Tailoring luminescence properties of TiO ₂ nanoparticles by Mn doping. <i>Journal of Luminescence</i> , 2013, 136, 339-346.	3.1	104

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37	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
38	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
39	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
40	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
41	Luminescence characteristics of cobalt doped TiO ₂ nanoparticles. Journal of Luminescence, 2012, 132, 178-184.	3.1	143
42	Interaction of Inorganic Nanoparticles with Graphene. ChemPhysChem, 2011, 12, 937-943.	2.1	72
43	Inside Cover: Interaction of Inorganic Nanoparticles with Graphene (ChemPhysChem 5/2011). ChemPhysChem, 2011, 12, 882-882.	2.1	0
44	Effect of oxygen vacancy and dopant concentration on the magnetic properties of high spin Co ²⁺ doped TiO ₂ nanoparticles. Journal of Magnetism and Magnetic Materials, 2011, 323, 440-446.	2.3	81
45	MAGNETIC PROPERTIES STUDY OF SOL-GEL SYNTHESIZED COBALT-DOPED ANATASE TiO ₂ NANOPOWDER. International Journal of Nanoscience, 2011, 10, 581-585.	0.7	0